APPENDIX H3 – FIELD NOTES

Bayou Terrebonne TMDL Survey
Final Report

08/19/03

General

The Watershed Surveys group conducted this survey on August 06, 2003. The subsegment 120301 (Bayou Terrebonne, from Thibodaux to boundary between segments 1203 and 1206 at Houma) is located in the Terrebonne River Basin. Bayou Terrebonne flows generally south-southeast from Thibodaux to the Gulf of Mexico. This survey focused specifically on the reach of Bayou Terrebonne between Thibodaux and the Intracoastal Waterway in Houma. This subsegment contains four smaller drainage areas: Bayou Terrebonne, Bayou Cane, Bayou Black, & Saint Louis Canal. Bayou Black & Saint Louis Canal both drain directly into the Intracoastal Waterway, thus were not included in the survey.

The headwaters of Bayou Terrebonne drain all lands between LA Hwy 20 and Devil's Swamp. South of Devil's Swamp, the drainage area includes some lands within the immediate vicinity of Bayou Terrebonne. The drainage area remains relatively uniform to its intersection with in the Intracoastal Waterway at Houma.

The drainage area for Bayou Cane includes all lands located between LA Hwy 311 and Bayou Terrebonne. Bayou Cane's confluence with Bayou Terrebonne is located roughly 4 miles upstream of the subsegment's lowest reach. A pump station exists on Bayou Cane approximately 200 yards upstream of its confluence with Bayou Terrebonne. This pump station only runs when excess water exists on the upstream side of the pump station. Due to malfunctioning sensors at the pump station, it is unknown if the pumps ran, at anytime, during the length of the survey. The pump station has two 48 inch pumps (maximum pumping capacity rated at 50,000 gallons per minute per pump) and two 36 inch pumps (maximum pumping capacity rated at 32,000 gallons per minute per pump) that run an average of 0.84 hours a day (per pump). It is also unknown if one, some, or all of the pumps where operating during the length of the survey.

This subsegment is qualified as being "Not Supporting" water quality criteria on the EPA's 303d list, for both primary & secondary recreation uses and for propagation of fish & wildlife. The suspected causes for these problems are listed as being: pathogens, organic enrichment/low dissolved oxygen, & mercury. The suspected sources for the problems include: municipal point sources, collection system failure (inflow & filtration), urban runoff, storm sewers, natural sources, sediment resuspension, releases from boats, & unknown sources.

In critical/low flow conditions, this subsegment of Bayou Terrebonne is only contiguous from the lowest weir, near site BT-6, to its intersection with the Intracoastal Waterway. In the days before the survey, the Houma-Thibodaux area experienced several summer convection thunderstorms, which produced heavy amounts of rainfall.

The resulting runoff produced by the rains caused water upstream of the weir, at site BT-6, to mix with water downstream of the weir; an event unseen in the months prior to the survey while gathering reconnaissance. The same goes for the weir located near site BT-5, which previously only had a trickle of water going over its weir prior to the rains.

Within subsegment 120301, there are no USGS gauging stations located on Bayou Terrebonne. However, there is one located in the Intracoastal Waterway, located near site ICWW-1; its USGS site identification number is 07381331. Information for this gauging station can be accessed online at http://www.usgs.gov/.

The primary land usages of this subsegment are to drain excessive runoff for the residential and commercial sectors and to drain sugar cane fields and other wetlands prone to flooding.

The percentage of tree canopy coverage remained relatively uniform throughout the susubsegment at 25% or less. There were few exceptions where the amount of coverage was between 25 to 75% or where there was none at all.

The amount of floating vegetation was noted as being higher in the upper reaches of the subsegment. Several areas were entirely covered with water hyacinth, duck weed and other aquatic vegetation.

Sedimentation in the water column was most evident in the Intracoastal Waterway. No turbidity was noted in the water column at sites on Bayou Terrebonne and Bayou Cane.

It was noted that two weirs exist along the main stem while gathering reconnaissance on the stream. On the day before the survey, a local business owner informed us to the location of a third weir on Bayou Terrebonne. This became site BT-5A at Coteau Road weir.

All field notes and water quality sheets are included with this report. All cross-sectional area sheets, flow data, water surface elevation data, maps, weather station data, GPS, dye data, continuous monitor data, survey plan and final report are available on the watershed shared network.

Sampling

Water quality samples were taken at all main stem and tributary sites; including chlorophyll a and UBOD. Blank and duplicate water quality samples were taken at sites BT-6 and ICWW-1.

Flow Measurements

Flow measurements were taken at sites BT-12 and ICWW-1 with acoustic Doppler. Flows were estimated with drogues at sites BT-8, BT-9, BT-10, and BT-12. Drogues proved to be unsuccessful at estimating flow at sites: BT-1, BT-2, BT-3, BT-11, and BC-1. Drogue measurements were performed several times at sites BT-9 and BT-12 to observe tidal influences on Bayou Terrebonne. Wading discharge measurements were performed atop the three weirs; sites BT-5, BT-5A, and BT-6. This data should prove valuable since drogues were unable to measure the amount of flow within their respective reaches.

Continuous Monitors

Continuous monitors were placed at sites: BT-1, BT-5, BT-5A, BT-7, & BC-1. The continuous monitor placed at site BT-5A failed to record water quality parameters due to a battery malfunction. On the day before the survey, it was noted that the dissolved oxygen probe's stirrer was not functioning properly on the continuous monitor for site BC-1. An extra continuous monitor, originally designated BT-4, was used to replace the one for BC-1.

Vented depth continuous monitors were placed at sites BT-9, BT-10, BT-12, and ICWW-1 to record the tidal influences on Bayou Terrebonne. The monitors placed at sites BT-9, BT-10 and BT-12 were left to record water quality parameters and tidal fluctuations for several days after the survey.

Benthic

Bayou Terrebonne's stream bottom was noted as being uniform throughout its entire reach. Its bottom is mostly composed of soft silt and organic debris. The same goes for Bayou Cane and the Intracoastal Waterway's benthic characteristics.

Bayou Terrebonne and Bayou Cane are both man-altered (dredged), natural water bodies. The Intracoastal Waterway is entirely man-made.

Dye Study

The dye study began at 0700 hrs at site BT-9B, Highland Drive Bridge, with 300 mL of Rhodamine WT dye being dumped into Bayou Terrebonne. Cross-sections of sites for the dye dump and dye runs were measured.

Cross-sections

Cross-sections were taken at all main stem and tributary sites. Additional cross-sections were taken above the weir at site BT-5A, and on both sides of the intersection of Intracoastal Waterway as it crosses Bayou Terrebonne.

Water Surface Elevation

Water surface elevation data was recorded at all three weirs to note the differences in elevation upstream, atop and downstream of the weirs. Benchmarks were established at each site, allowing elevations collected during the survey to be tied in to USGS geodetic data.

Site Information

Site #: BT-01 Subsegment: 120301 Date: 06/05/03 Time: 0925 hrs
Waterbody: B. TERREBONNE Tapedown 1: 5.59 ft Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: @ Ducros / Devil's Swamp Rd.
Personnel: DARSEY / PHILLIPPE / 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: ☐
Continuous Monitor Deployed: ☒ @ 0948 hrs Continuous Monitor S/N: 40803
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 0.15 m
Continuous Monitor Location: ~20 ft downstream of culvert

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: ~25 ft downstream of culvert
Type of Measurement Manual: ☒ Fathometer ☐ Cross Section File Name: BT01 B1
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments: ~no flow; WL is variable moving water on surface only
~2ft @ culvert.
~1ft @ crosssection

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 Kit 3 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 #: BT-01 Subsegment: 120301 Date: 08/06/03 Time: 1115 hrs

Waterbody: B. TERREBONNE Tapedown 1: 5.95ft Staff Gauge 1:

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

Site Location: @ Devil's Swamp / Ducros Rd.

Personnel: DARSEY / BRIGNAC / PHILLIPS

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: 1115 Temp.(°C): 30.52 pH: 7.24 Spcond(µhmos/cm): 447.2 (BATT/0.1

D.O.: 2.53 D.O. %: 33.3 Salinity: 0.22 Depth (m): 0.15 Secchi (in): 12 in (bottom)

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: NO FLOW

* In Situ's Dissolved Oxygen Probe Had Bubble During Post-Calibration *

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

AquaCale 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 #: BT-01 Subsegment: 120301 Date: 8/7/03 Time: 1045 hr
Waterbody: Bayou Terrebonne Tapedown 1: 5.72 Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: At Ducros Road / Devil's Swamp Road Bridge
Personnel: Dickinson, Schwartz, Fontenot
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: 40803
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: Continuous Monitor Retrieved at 1045 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(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

AquaCale 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 #: BT-02 Subsegment: 120301 Date: 08/05/03 Time: 1600 hrs.

Waterbody: BAYOU TERREBONNE Tapedown 1: 3.16 ft Staff Gauge 1:

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

Site Location: @ PAGE SCHOOL RD. BRIDGE

Personnel: DARSEY/PHILLIPPE/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: ☐

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: ~ 30 ft downstream of culvert

Type of Measurement Manual: ☒ Fathometer ☐ Cross Section File Name: BT-02 D1

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments: thick with seaw

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
Revised 3/25/03

Site Information

Site #: BT02 Subsegment: 120301 Date: 8 6 03 Time: 1055 hrs
Waterbody: Bayou Terrebonne Tapedown 1: 3.2 Staff Gauge 1: ____
Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____
Site Location: Price School bridge
Personnel: Dansey, Brignac, Phillippe
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: ____

IBV = 7.5
IBat = 10.1

Water Quality Field Parameters

Time: 1055 hrs Temp. (°C): 28.25 pH: 7.17 Spcond (µhmos/cm) ~~0.3m~~ 429.8
D.O.: 0.24 D.O. %: 2.8 Salinity: 0.22 Depth (m): 0.3m Secchi (in): 0.3m

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: NDT flowing

* In Situ's Dissolved Oxygen Probe Had Bubble During Post-Calibration *

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
Revised 3/25/03

Site Information

Site #: BT-03 Subsegment: 120301 Date: 08/05/03 Time: 1455 hrs

Waterbody: Bayou Terrebonne Tapedown 1: 2.66 ft Staff Gauge 1: _____

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

Site Location: @ Recreation Rd.

Personnel: Darsey / Phillippe / 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: ☐

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 culvert

Type of Measurement Manual: ☒ Fathometer ☐ Cross Section File Name: BT-03 D1

GPS Measurement: ☐ GPS SSF File Name: _____

Site GPS: ☐ Cross Section GPS: ☐

Comments: – best accessible x-section – done thus couldn't reach which were more representative

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
Revised 3/25/03

Site Information

Site #: BT-03 Subsegment: _____ Date: 8/6/03 Time: 1030 hrs

Waterbody: Bayou Terrebonne Tapedown 1: 2.7 Staff Gauge 1: _____

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

Site Location: _____

Personnel: _____

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° ☐	1-3 ☒	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: 1030 hrs Temp.(°C): 28.53 pH: 7.27 Spcond(µhmos/cm): 430.8

D.O.: 1.59 D.O. %: 21.8 Salinity: 0.22 Depth (m): 0.3m Secchi (in): ~~0.6m~~ 24in

FBV = 7.5

FBatt = 10.1

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: Not flowing

* WSIEN'S DISSOLVED OXYGEN PROBE HAD BUBBLE DURING POST-CALIBRATION *

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
Revised 3/25/03

Site Information

Site #: BT-04 Subsegment: 120301 Date: 08/05/03 Time: 1415 hrs

Waterbody: BAYOU TERREBONNE Tapedown 1: 7.39 ft Staff Gauge 1:

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

Site Location: ABOVE WEIR ON TERREBONNE BRIDGE

Personnel: DARSEY / PHILLIPPE / 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 ☐ can't tell
0 – 10% ☐	Cold < 60° ☐	>16 ☐	
11 – 40% ☐			
41 – 70% ☒			
71 – 100% ☐			

only in left section in middle

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: _____

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: ~30 yds upstream of weir

Type of Measurement Manual: ☒ Fathometer ☐ Cross Section File Name: BT-04 D1

GPS Measurement: ☐ GPS SSF File Name: _____

Site GPS: ☐ Cross Section GPS: ☐

Comments: _____

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: ~ upstream of bridge

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 3/25/03

Site Information

Site #: BT-64 Subsegment: _____ Date: 8/16/03 Time: 0900 Lrs

Waterbody: Bayou Terrebonne Tapedown 1: 7.47 Staff Gauge 1: _____

Gauge Height 1: 7.47 Tapedown 2: 7.47 Staff Gauge 2: _____ Gauge Height 2: _____

Site Location: _____

Personnel: Darsey, Brignac, Phillippe

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

IBat = 10.2

Time: 0900 Lrs Temp.(°C): 28.84 pH: 7.18 Spcond(µhmos/cm): 381.2

D.O.: 1.71 D.O. %: 22.9 Salinity: 0.19 Depth (m): 0.75m Secchi (in): 30m

Flow Measurement: ☒ Measurement Location: at weir

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

AquaCalc File Name: BT05 D2

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's Dissolved Oxygen Probe Had Bubble During Post-Calibration *

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☒ Tapedown Location: on bridge

Benchmark Established: ☒ Benchmark Location: on bridge - NE corner (spray paint)

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
Revised 3/25/03

Site Information

Site #: BT-05 Subsegment: 120301 Date: 08/05/03 Time: 1043
Waterbody: B. TERREBONNE Tapedown 1: 7.43 ft Staff Gauge 1:
Gauge Height 1: Tapedown 2: 7.39 ft Staff Gauge 2: Gauge Height 2:
Site Location: BELOW WEIR @ N. TERREBONNE BRIDGE
Personnel: DARSET / PHILLIPPE / 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: ☐
Continuous Monitor Deployed: ☒ @ 1100 Continuous Monitor S/N: 40806
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1m
Continuous Monitor Location: ~ 20 ft upstream of bridge

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: ~ 30 ft upstream of bridge
Type of Measurement Manual: ☒ Fathometer ☐ Cross Section File Name: BT-05 D1
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐

Comments: water flowing over weir
~ 2 ft deep @ bridge
– rained for ~ 30 minutes tapedown increased ~ .05 ft

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: ~ 50 ft upstream of bridge

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 3/25/03

Site Information

Site #: BT-05 Subsegment: 120301 Date: 08/06/03 Time: ~~0900~~ 0915 hrs

Waterbody: Bayou Terrebonne Tapedown 1: 7.47 Staff Gauge 1:

Gauge Height 1: 7.47 Tapedown 2: Staff Gauge 2: Gauge Height 2:

Site Location:

Personnel: Phillippe, Brignac, Darsey

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: 0915 Temp.(°C): 28.74 pH: 7.17 Spcond(µhmos/cm): 384.6

D.O.: 1.57 D.O. %: 20.0 Salinity: 0.19 Depth (m): 1m Secchi (in): 42in

Flow Measurement: ☑ Measurement Location: @ weir

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

AquaCalc File Name: BT05 D1

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: ~~(Instrument Height 3.85 ft)~~

Bench Mark - 1.05 ft + 100 ft = H.I.S 101.05 ft

Weir - 5.87 ft

Water Above Weir - ~~[illegible]~~ 6.07 ft

Water Below Weir - 5.43 ft

* In Situ's Dissolved Oxygen Probe Had Bubble During Post-Calibration *

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 ☐ Weir

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 3/25/03

Site Information

Site #: BT-05 Subsegment: 120301 Date: 3/7/03 Time: 1100 hr

Waterbody: Bayou Terrebonne Tapedown 1: 7.50 Staff Gauge 1: ____

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

Site Location: Downstream of Weir at North Terrebonne Road Bridge

Personnel: Dickinson, Schwartz, Fontenot

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: 40806 at 1100hr

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: Continuous Monitor Retrieved at 1100hr

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
Revised 3/25/03

Site Information

Site #: BT-050 Subsegment: 120301 Date: 8/5/03 Time: 1610

Waterbody: Bayou Terrebonne Tapedown 1: Staff Gauge 1:

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

Site Location: Coteau 200 yds downstream of Coteau Rd ~~below~~

Personnel: Dickinson, Cal Fontenot, Schwartz

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: 39002

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 2 ft

Continuous Monitor Location: 100 yds downstream of Coteau Rd

Water Quality Field Parameters

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

D.O.: B.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: Continuous Monitor Deployed

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: 100 yd downstream of bridge

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: 4108 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 #: BT-05a Subsegment: 120301 Date: 8.6.03 Time: 1300
Waterbody: Bayou Terrebonne Tapedown 1: 7.54 Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: 100 yds downstream of Coteau Rd.
Personnel: Dickinson, Brignac, Schwartz, Fontenot
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:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: 1300 Temp (°C): 29.40 pH: 7.11 Spcond (µhmos/cm): 390.2
D.O.: 3.25 D.O. %: 42.5 Salinity: 0.19 Depth (m): 0.45 Secchi (in): 30

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
0.5 m water quality samples were taken
Elevation: Bridge: 100 ft
H.T.: 3.68 ft + 100 = 103.68
Above weir: 11.01
Weir: 11.19
Below weir: 12.06

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: 100 yds downstream of bridge
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: 40807 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 #: BT-05a Subsegment: 120301 Date: 8/8/03 Time: 0935 hrs
Waterbody: Bayou Terrebonne Tapedown 1: 2.45 Staff Gauge 1: _____
Gauge Height 1: _____ Tapedown 2: _____ Staff Gauge 2: _____ Gauge Height 2: _____
Site Location: 100 yds downstream of Coteau Rd ~~below weir~~
Personnel: Schwartz, Cal Forstner, Jones
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: 39002
Continuous Monitor Retrieved: ☑ Continuous Monitor Deployment Depth (m): 2 ft
Continuous Monitor Location: 100 yds Downstream of Coteau Rd below weir

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: _____

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: 100 yds downstream of bridge

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 3/24/03

Site Information

Site #: BT-06 Subsegment: 120301 Date: 8 15 03 Time: 0930
Waterbody: Bayou Terrebonne
Gauge Height 1: Tapedown 2: Staff Gauge 2: Tapedown 1: 6.66 Staff Gauge 1: Gauge Height 2:
Site Location: Upstream of weir at Mall Road Bridge
Personnel: Dickinson, Schwartz, Cal Fontenot
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 ☐
- >16 ☐

Wind Direction:
- NW ☐ N ☐ NE ☐
- SW ☐ S ☐ SE ☒
- E ☐ W ☐
- Variable ☐

Cloud Cover:
- 0 – 10% ☐
- 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(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: 50 ft ↓ Downstream of bridge
Type of Measurement Manual: ☒ Fathometer ☐ Cross Section File Name: BT 06 X.S
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments: X-section

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: 50ft downstream of bridge
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

Site Information

Site #: BT-06 Subsegment: 120301 Date: 8/6/03 Time: 0730
Waterbody: Bayou Terrebonne Tapedown 1: 6.02 Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: Upstream of Weir at Mall Road Bridge
Personnel: Dickinson, Schwartz, Fontenot (Col)
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:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: 0730 Temp.(°C): 28.90 pH: 7.07 Spcond(µhmos/cm): 359.6 IBV-7.5 IBa-10.8
D.O.: 5.77 D.O. %: 99 Salinity: 0.18 Depth (m): 1.75 Secchi (in): 30

Flow Measurement: ☒ Measurement Location:
Type of Measurement: Wading ☒ Bridge Board ☐ Boat Board ☐
AquaCalc File Name: BT06
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
Elevations: T.B. 100 @ Bridge
HI: 4.52 ft + 100 → 104.52 ft
Above weir: 10.94 ft
Weir: 11.16 ft
Below weir: 12.17
- Water flowing over right side weir was approximately 10% of flow

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: 50ft. Downstream of bridge

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: 40807 Surveyor 4a S/N: 38005012013 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 #: BT-07 Subsegment: 120301 Date: 8/5/03 Time: 0930

Waterbody: Bayou Terrebonne

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

Site Location: Downstream of Weir at Mall Road Bridge

Personnel: Dickinson, Schwartz, Cal Fontenot

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: 40006 at 0955

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 0.60

Continuous Monitor Location: 30 ft downstream

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: 60 ft downstream

Type of Measurement Manual: ☒ Fathometer ☐ Cross Section File Name: BT 07 XS

GPS Measurement: ☒ GPS SSF File Name: BTerre

Site GPS: ☒ Cross Section GPS: ☐

Comments: Continuous Monitor Deployed and X-section GPS site.

cleared dam of trash, debry, & organic materials in order to take flow. At 1030 dam was cleared

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: 30 ft 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: _____ Surveyor 4a S/N: _____ GPS Unit: B
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 #: BT-07 Subsegment: 120301 Date: 8/6/03 Time: 0915
Waterbody: Bayou Terrebonne
Gauge Height 1: Tapedown 2: Staff Gauge 2: Tapedown 1: Staff Gauge 1: Gauge Height 2:
Site Location: Downstream of weir at Man Road Bridge
Personnel: Dickinson, Schubert, Cal Fontenot
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:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: 0915 Temp.(°C): 29.20 pH: 7.02 Spcond(µhmos/cm): 36.1.5 IBV-7.4 IBa-108
D.O.: 0.95 D.O. %: 12.2 Salinity: 0.18 Depth (m): 0.43 Secchi (in): 30

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
Sonic Discharge is discharging

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: 30 ft downstream

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: 40807 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 #: BT-009 Subsegment: 120301 Date: 8.7.03 Time: 0955hr
Waterbody: Bayou Terrebonne Tapedown 1: 10.75 Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: Downstream of Weir at Mall Road Bridge
Personnel: Dickinson, Fontenot, Schwartz
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 ☐
>16 ☐

Wind Direction:
NW ☒ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:
0 – 10% ☐
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: 40008 40006
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: Continuous Monitor Retrieved

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: 30 ft Downstream
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

Site Information

Site #: BT-08 Subsegment: 120301 Date: 8.5.03 Time: 1119
Waterbody: Bayou Terrebonne Tapedown 1: 1.45 Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: at Funderburk Road Bridge
Personnel: Dickinson, Schwartz, Cal Fontenot
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:
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: 50 ft ~~down~~ upstream of bridge
Type of Measurement Manual: ☒ Fathometer ☐ Cross Section File Name: BT-08 XS
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐
Comments: X-Section

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

Site Information

Site #: BT-08 Subsegment: 120301 Date: 8/6/03 Time: 1030
Waterbody: Bayou Terrebonne Tapedown 1: 745 Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: At Funderburk Road Bridge
Personnel: Dickinson, Fontenot, Schwartz
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:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: 1030 Temp.(°C): 29.49 pH: 7.00 Spcond(µhmos/cm): 338.2
D.O.: ~~4.42~~ 4.40 D.O. %: 58.2 Salinity: 0.17 Depth (m): 1.0 Secchi (in): 36 in

IBV - 7.5 I Bar 10:8

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): 184 Time (s): 5min Downstream
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
No Flow

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: 40807 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 #: BT-09 Subsegment: 120301 Date: 8/5/03 Time: 1140
Waterbody: Bayou Terrebonne Tapedown 1: 6.38 69 Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: at Westside Street Bridge
Personnel: Dickinson, Schwartz, Cal Fontenot
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: 40005 at 1142
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 0.60
Continuous Monitor Location: Off Westside bridge Downstream side of bridge

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): 94.0 Time (s): 2:21 ~ 141s Downstream at 1815hr
Left Descending Bank: Distance (ft): Time (s):
Cross Section Measurement: ☐ Measurement Location: Off Westside Street bridge
Type of Measurement Manual: ☒ Fathometer ☐ Cross Section File Name: BT-09 XS
GPS Measurement: ☐ GPS SSF File Name:
Site GPS: ☐ Cross Section GPS: ☐

Comments: Continuous Monitor Deployed & Xsection
Evening drogue

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

Site Information

Site #: BT-09 Subsegment: 120301 Date: 8/6/03 Time: 1130
Waterbody: Bayou Terrebonne Tapedown 1: 7.00 Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: At Westside Street Bridge
Personnel: Dickerson, Fontenot, Schwartz
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:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

IBV-7.3 IBa-10.8

Time: 1130 Temp.(°C): 29.59 pH: 6.90 Spcond(µmos/cm): 288.7
D.O.: 1.18 D.O. %: 16.3 Salinity: 0.14 Depth (m): 0.40 Secchi (in): 30

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): 20 ft Time (s): 5 min Downstream
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

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: 40801 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 #: BT-09 Subsegment: 120301 Date: 8/6/03 Time: 1800 hrs
Waterbody: Bayou Terrebonne Tapedown 1: 2.4 Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: Westside Bridge
Personnel:
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:
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): 26 ft Time (s): 5 min
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: Drogue in the Evening

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

Site Information

Site #: BT09 Subsegment: _____ Date: 8/11/03 Time: 11:50

Waterbody: Bayou Terrebonne a Tapedown 1: 7.0 Staff Gauge 1: _____

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

Site Location: Bayou Terrebonne at Westside St. Bridge

Personnel: Hughes, Cal Fontenot

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: 40005

Continuous Monitor Retrieved: ☒ 1150hrs Continuous Monitor Deployment Depth (m): _____

Continuous Monitor Location: on bridge

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: Retrieved continuous monitor

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

Site Information

Site #: BT-10 Subsegment: 120301 Date: 8/5/03 Time: 1230

Waterbody: Bayou Terrebonne Tapedown 1: 6.5 Staff Gauge 1:

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

Site Location: At Hollywood Street Bridge

Personnel: Dickinson, Schwartz, Cal / Fontenot

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: 400.10 at 1232

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1.60

Continuous Monitor Location: 10 ft upstream of bridge

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: BT-10 xs 2

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments: Continuous Monitor Deployed & X-Section

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

Site Information

Site #: BT-10 Subsegment: 120301 Date: 8/6/03 Time: 1230
Waterbody: Bayou Terrebonne Tapedown 1: 0.45 Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: At Hollywood Street Bridge
Personnel: Dickinson, Fontenot, Schwartz
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:
Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location:

Water Quality Field Parameters

Time: 1230 Temp.(°C): 30.21 pH: 7.03 Specond(µhmos/cm): IBV-7.3 IBa-10.9
D.O.: 2.40 D.O. %: 32.2 Salinity: 0.20 Depth (m): 0.60 Secchi (in): 36

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): 15 ft Time (s): 5 min
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

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: 40801 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 #: BT10 Subsegment: 120301 Date: 8/11/03 Time: 1340 hr
Waterbody: Bayou Terrebonne Tapedown 1: 4.46 Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: Bayou Terrebonne at Hollywood St. Bridge
Personnel: Hughes, Cal Fontenot
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: H0010
Continuous Monitor Retrieved: ☒ Continuous Monitor Deployment Depth (m):
Continuous Monitor Location: upstream of bridge

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:

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

Site Information

Site #: BT-14 Subsegment: 120301 Date: 8/5/03 Time: 11:45

Waterbody: Bayou Terrebonne Tapedown 1: Staff Gauge 1:

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

Site Location: @ Morgan St. Bridge

Personnel: Betty, Pontenot

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: ☑ flow both ways w/in 15 min. time

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:

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

AquaCalc File Name:

Flow Estimated: ☐ Measurement Location: ~~50 ft d/s Mo~~

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: 50 ft. d/s Morgan St. Bridge

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

GPS Measurement: ☑ GPS SSF File Name:

Site GPS: ☑ Cross Section GPS: ☑

Comments: GPS + Cross section 50 ft d/s Morgan St. Bridge

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

Site Information

Site #: BT-11 Subsegment: ____ Date: 8/6/03 Time: 1035 hrs

Waterbody: Bayou Terrebonne Tapedown 1: ____ Staff Gauge 1: ____

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

Site Location: Morgan St. Bridge

Personnel: Fontenot, 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: ☐ No 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: 1035 Temp.(°C): 30.06 pH: 7.14 Spcond(µhmos/cm): 334.3 IBV 10.8

D.O.: 1.50 D.O. %: 20.0% Salinity: 0.16 Depth (m): 1m Secchi (in): 4ft.

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: ____

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:

INSITU Measurement

Time: 1035hrs Temp.(°C): 30.06 pH: 7.14 Spcond(µhmos/cm): 334.3
D.O.: 1.50 D.O. %: 20.0 Salinity: .16 Depth (m): 1 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

Site Information

Site #: BT-12 Subsegment: 120301 Date: 8 13 03 Time: 09:29

Waterbody: Bayou Terrebonne Tapedown 1: Staff Gauge 1:

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

Site Location: Cabasse St Bridge

Personnel: B. Hughes, K. Mason

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(µhmos/cm):

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

Flow Measurement: ☑ Measurement Location: ~100' Up of Cabasse St

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: ADCP

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

Site Information

Site #: BT 12 Subsegment: 120301 Date: 8/5/03 Time: 11:20

Waterbody: Bayou Terrebonne Tapedown 1: Staff Gauge 1:

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

Site Location: 6th Gehasse x Barrow St. Bridges

Personnel: Boffy, Fontenot

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: 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): 46 Time (s): 3:40

Mid Stream: Distance (ft): 46 Time (s): 3:40

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: Drogue #1 (8-5-03 evening): 46 ft in 3:40 = .20 ft/sec

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

Site Information

Site #: BT-17 Subsegment: 120301 Date: 8/6/03 Time: 10:25

Waterbody: Bayou Terrebonne Tapedown 1: Staff Gauge 1:

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

Site Location:

Personnel: Betty Contemot

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: 1005 Temp.(°C): 30.02 pH: 7.13 Spcond(µhmos/cm): 310.4 (BV 10.8

D.O.: 1.17 D.O. %: 15.5 Salinity: 0.15 Depth (m): 1m Secchi (in): .75 m

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: Drogue time of travel measurement 42' in 9 min 20 sec

Drogue: 8/6 morning → 42' in 9 min 20 sec = .075 ft/s
8/6 mid-day → 54' in 2 min 42 sec = .33 ft/sec
8/6 evening → 45' in 4 min 45 sec = .15 ft/sec

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:

INSitu measurement

Time: 1005hrs Temp.(°C): 30.02 pH: 7.13 Spcond(µhmos/cm): 310.4
D.O.: 1.17 D.O. %: 15.5 Salinity: 0.15 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: 40810 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 #: BTR Subsegment: 120301 Date: 8/6/03 Time: 12:30
Waterbody: Bayou Terrebonne Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: Cabasse St Bridge
Personnel: B Hughey K Marden
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(µhmos/cm):** ____
D.O.: ____ **D.O. %:** ____ **Salinity:** ____ **Depth (m):** ____ **Secchi (in):** ____

Flow Measurement: ☐ Measurement Location: ~10' nd Cabasse R
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: ADCP

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 #: BT 12 Subsegment: 120301 Date: 8/6/03 Time: 13:49
Waterbody: Bayou Terrebonne Tapedown 1: Staff Gauge 1:
Gauge Height 1: Tapedown 2: Staff Gauge 2: Gauge Height 2:
Site Location: Gabasse SE Bridge
Personnel: B Hughes, K. Marsden
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(µhmos/cm): _____
D.O.: _____ D.O. %: _____ Salinity: _____ Depth (m): _____ Secchi (in): _____

Flow Measurement: ☑ Measurement Location: ~100' Up from Gabasse Br
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: ADCP

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 #: BT12 Subsegment: ____ Date: 8/11/03 Time: 12:50 hr
Waterbody: Bayou Terrebonne Tapedown 1: ____ Staff Gauge 1: ____
Gauge Height 1: ____ Tapedown 2: ____ Staff Gauge 2: ____ Gauge Height 2: ____
Site Location: Bayou Terrebonne Gabasse St. Bridge
Personnel: Hughes, Cal Fonkert
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: 39003
Continuous Monitor Retrieved: ☒ Continuous Monitor Deployment Depth (m): ____
Continuous Monitor Location: 50 yds upstream of bridge

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: ____

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

Site Information

Site #: BC-01 Subsegment: 120301 Date: 08/04/03 05 Time: 1210 hrs

Waterbody: BAYOU CANE Tapedown 1: N/A Staff Gauge 1:

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

Site Location: b/w UNNAMED TRIB & PUMPS

Personnel: DARSEY / PHILLIPPE / 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: ☐

Continuous Monitor Deployed: ☒ @ 1255 hrs Continuous Monitor S/N: 40811

Continuous Monitor Retrieved: ☐ Continuous Monitor Deployment Depth (m): 1.0 m

Continuous Monitor Location: ~ 60 ft upstream of PUMP STATION

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: ~ 70 ft upstream of Pumps

Type of Measurement Manual: ☒ Fathometer ☐ Cross Section File Name: BC-01 D1

GPS Measurement: ☐ GPS SSF File Name:

Site GPS: ☐ Cross Section GPS: ☐

Comments: ~ pumps not running
– Monitor for BT-04 used here instead of BC-01 since stream was not working on BC-01 cont. mon.

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: ~160 yds upstream of confluence w/ BTERREBONNE
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

DIST	DEPTH				
		44 ft	23 ft	9 ft	1.9 ft
		42 ft	4.7 ft	6 ft	0.8 ft
RDB	RDB	42 ft	5.1 ft	. ft	. ft
BANK 57 ft	0. ft	39 ft	5.7 ft	. ft	. ft
		36 ft	5.6 ft	. ft	. ft
54 ft	1.3 ft	33 ft	5.6 ft	. ft	. ft
		30 ft	5.9 ft	. ft	. ft
51 ft	1.7 ft	27 ft	6.1 ft	. ft	. ft
		24 ft	6.0 ft		
48 ft	2.0 ft	21 ft	5.7 ft	BANK 3. ft	0 ft
		18 ft	4.6 ft		
45. ft	2.1 ft	15 ft	2.4 ft	NB	CDB

Field Site Survey.doc
Revision 2.0
Revised 3/25/08

Site Information

Site #: BC-01 Subsegment: 120301 Date: 09/08/03 Time: 0800

Waterbody: BAYOU CANE Tapedown 1: NA Staff Gauge 1:

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

Site Location: b/w UNNAMED TRIBUTARY & PUMP STATION

Personnel: BRIGNAC / DARGEY / PHILLIPPE

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 ☐

Floatine/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: 0800 Temp.(°C): 29.18 pH: 6.93 Spcond(µhmos/cm): 272.4 IBatt = 10.7

D.O.: 1.98 D.O. %: 18.2 Salinity: 0.13 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: NO FLOW

* IN SITU'S DISSOLVED OXYGEN PROBE HAD BUBBLE DURING POST-CALIBRATION *

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: 40608 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 #: BC-01 Subsegment: 120301 Date: 8/7/03 Time: 12:00

Waterbody: Bayou Cane at B. Terrebonne Tapedown 1: Staff Gauge 1:

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

Site Location: next to pump station

Personnel: Fontenot, 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: 40811

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:

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 Cane @ MLK blvd.
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 #: ICBDW1 Subsegment: 120301 Date: 8/15/03 Time: 11:00

Waterbody: Intracoastal Waterway Tapedown 1: 2.55 Staff Gauge 1:

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

Site Location: Bayou Terrebonne @ Intracoastal Waterway

Personnel: Boffy, Fontenot

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: 39001

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

Continuous Monitor Location: @ USGS guage

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:

Photos Taken: ☐ Picture File #s: _____

Tapedown Established: ☐ Tapedown Location: _____

Benchmark Established: ☑ Benchmark Location: end of Downtown boardwalk

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

Site Information

Site #: ICW1 Subsegment: 120301 Date: 8/6/03 Time: 09:35

Waterbody: ICW Tapedown 1: Staff Gauge 1:

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

Site Location: Under Hwy 24 Bridge

Personnel: B Hughes, L Masden

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 ☐
>16 ☐

Wind Direction:

NW ☑ N ☐ NE ☐
SW ☐ S ☐ SE ☐
E ☐ W ☐
Variable ☐

Cloud Cover:

0 –10% ☐
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(µhmos/cm):**

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

Flow Measurement: ☑ Measurement Location: Same As Site

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: ADCP

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

Site Information

Site #: IC WW-1 Subsegment: 120301 Date: 8/6/03 Time: 09:00 hrs

Waterbody: Bayou Terrebonne Tapedown 1: 2.58 Staff Gauge 1:

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

Site Location: at Intracoastal Canal

Personnel: Fontenot, 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: 39001

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

Continuous Monitor Location:

Water Quality Field Parameters

Time: 0900 Temp.(°C): 31.26 pH: 7.30 Spcond(µhmos/cm): 276.7

D.O.: 3.81 D.O. %: 51.4 Salinity: 0.13 Depth (m): ~~45~~ 1m Secchi (in): .45

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: IC WW-1

Site GPS: ☐ Cross Section GPS: ☐

Comments:

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 #: KWW-1 Subsegment: 120301 Date: 8/7/03 Time: 10:50

Waterbody: Bayou Terrebonne at Intercostal Tapedown 1: 2.64 Staff Gauge 1:

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

Site Location: Confluence of Bayou Terrebonne and ICWW

Personnel: Boffy, Fontenot

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: 39001

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:

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

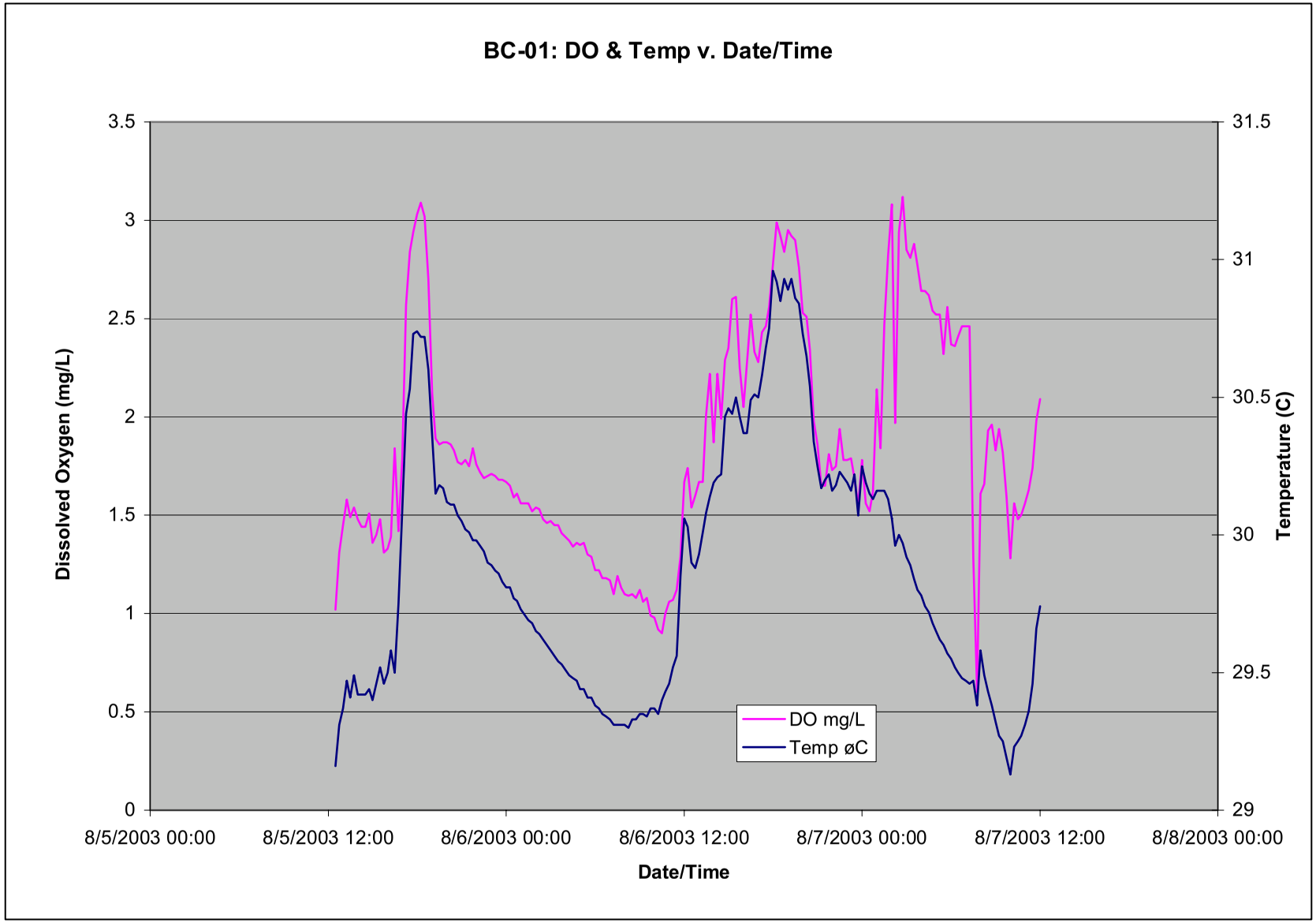
Field Site Survey.doc
Revision 2.0
Revised 3/25/03

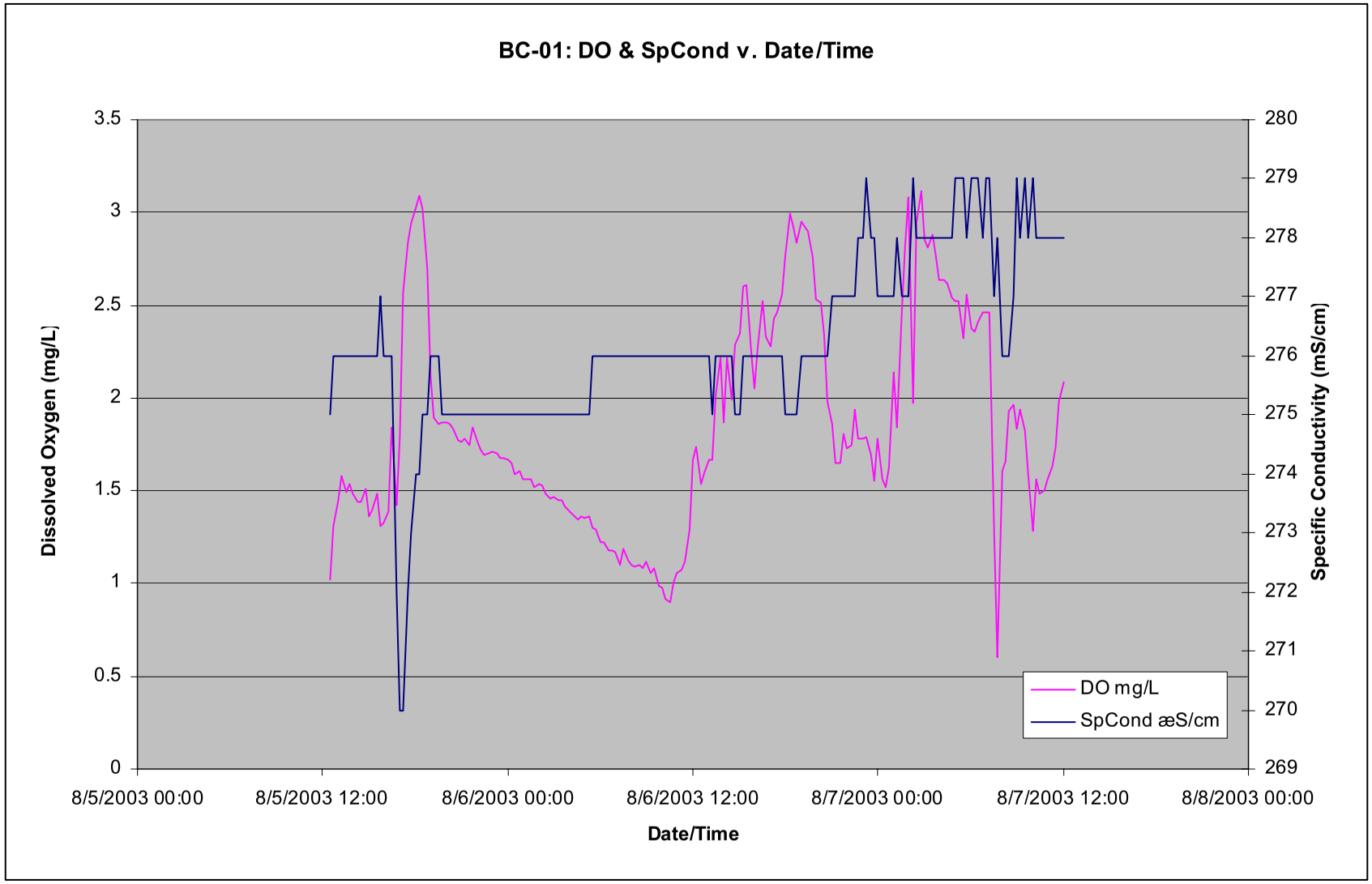
APPENDIX H4 - CONTINUOUS MONITOR DATA

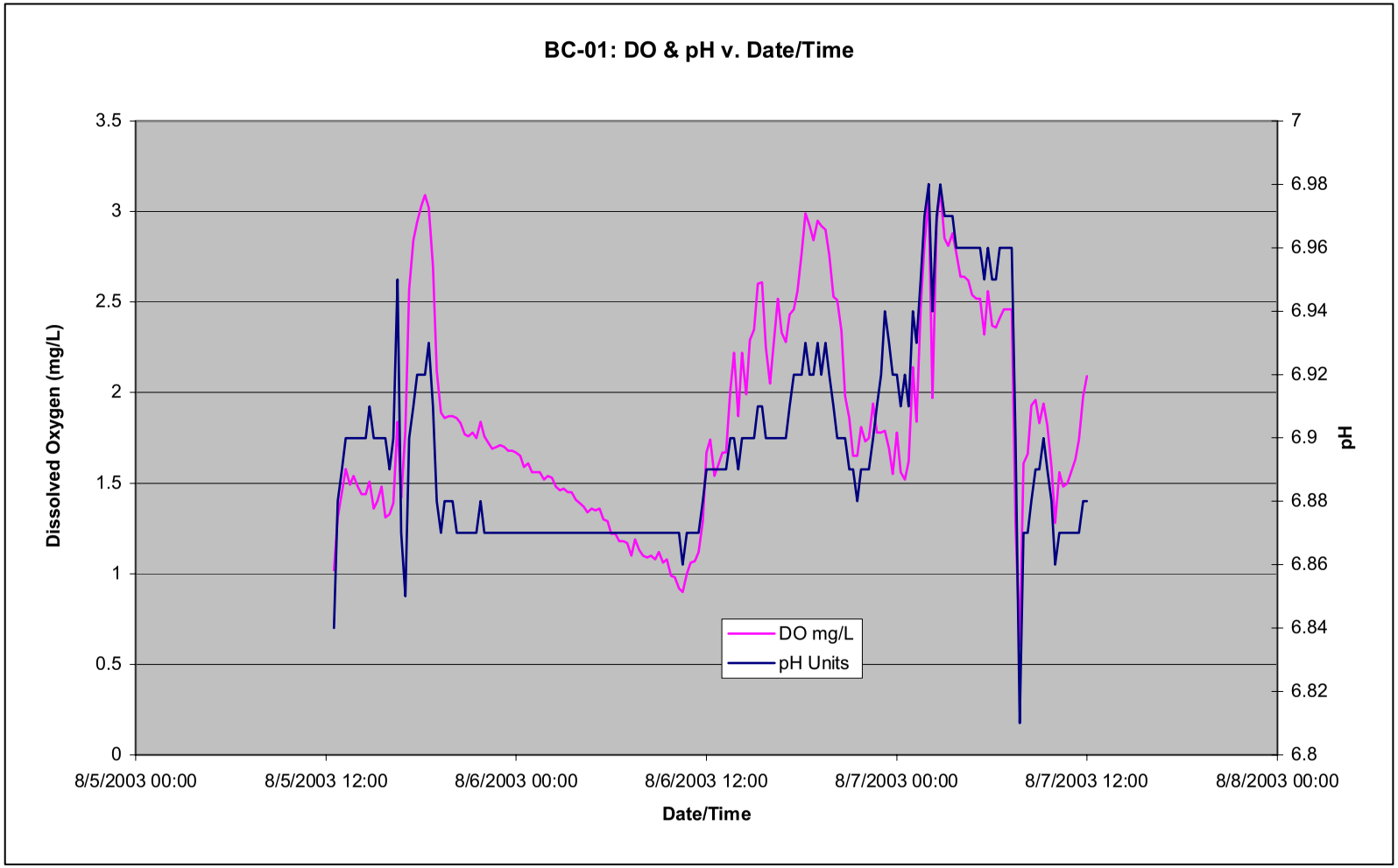
Bayou Terrebonne Continuous Monitor Data
Survey Date 8/6/03

Site		Temp (C)	pH (units)	SpCond (umhos/cm)	Depth (m)	DO % Sat	DO (mg/L)	TDS (mg/L)	Salinity (ppt)	Chlorides (ppm or mg/L)
BC-01	Average	29.95	6.90	275.9		22.98	1.74		0.10	
	Minimum	29.30	6.90	275.0		11.70	0.90		0.10	
	Maximum	31.00	6.90	279.0		40.30	3.00		0.10	
BT-01	Average	32.05	7.37	452.4		55.72	4.00		0.20	
	Minimum	30.00	7.20	431.0		4.60	0.40		0.20	
	Maximum	34.50	7.90	478.0		156.90	11.00		0.20	
BT-05	Average	30.43	7.42	382.7		69.26	5.15		0.20	
	Minimum	28.80	7.20	376.0		18.70	1.40		0.20	
	Maximum	32.00	7.80	387.0		123.00	9.00		0.20	
BT-07	Average	30.43	7.18	370.0	0.44	38.47	2.85		0.20	
	Minimum	29.00	7.10	370.0	0.40	7.50	0.60		0.20	
	Maximum	32.10	7.30	380.0	0.49	85.40	6.20		0.20	
BT-09	Average	29.88	7.06	291.9	0.69	28.90	2.18		0.11	
	Minimum	29.10	7.00	283.0	0.65	6.60	0.50		0.10	
	Maximum	31.00	7.20	303.0	0.73	73.60	5.50		0.20	
BT-10	Average	30.45	7.19	362.9	0.62	26.95	2.01		0.21	
	Minimum	29.40	7.10	312.0	0.57	5.70	0.40		0.20	
	Maximum	31.50	7.30	792.0	0.67	53.50	3.90		0.40	
BT-12	Average	30.45	7.14	310	0.69	25.89	1.93		0.20	
	Minimum	29.80	7.10	310	0.63	15.60	1.20		0.20	
	Maximum	31.50	7.20	320	0.75	44.60	3.30		0.20	
ICWW	Average	31.46	7.25	271.0	0.68	49.80	3.67		0.10	
	Minimum	30.90	7.10	255.0	0.62	36.60	2.70		0.10	
	Maximum	32.10	7.40	279.0	0.75	57.80	4.20		0.10	

Note: Maximum, Minimum and Average values computed from continuous monitor data for the 24-hour period on 8/6/2003


BC-01: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
3.5
3
2.5
2
1.5
1
0.5
0
31.5
31
30.5
30
29.5
29
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00
DO mg/L
Temp øC


BC-01: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
3.5
3
2.5
2
1.5
1
0.5
0
280
279
278
277
276
275
274
273
272
271
270
269
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00
DO mg/L
SpCond æS/cm


BC-01: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
3.5
3
2.5
2
1.5
1
0.5
0
pH
7
6.98
6.96
6.94
6.92
6.9
6.88
6.86
6.84
6.82
6.8
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00
Date/Time
DO mg/L
pH Units

MiniSonde 4a 40811
Log File Name : BC-01
Setup Date (MMDDYY) : 080403
Setup Time (HHMMSS) : 105408
Starting Date (MMDDYY) : 080403
Starting Time (HHMMSS) : 110000
Stopping Date (MMDDYY) : 122503
Stopping Time (HHMMSS) : 235959
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS	Temp øC	SpCond æS/cm	Sal ppt	pH Units	DO mg/l	DO% Sat
8/5/2003	12:30:00	29.16	275	0.13	6.84	1.02	13.3
8/5/2003	12:45:00	29.31	276	0.13	6.88	1.31	17.2
8/5/2003	13:00:00	29.37	276	0.13	6.89	1.45	19
8/5/2003	13:15:00	29.47	276	0.13	6.9	1.58	20.7
8/5/2003	13:30:00	29.41	276	0.13	6.9	1.49	19.5
8/5/2003	13:45:00	29.49	276	0.13	6.9	1.54	20.2
8/5/2003	14:00:00	29.42	276	0.13	6.9	1.48	19.5
8/5/2003	14:15:00	29.42	276	0.13	6.9	1.44	18.8
8/5/2003	14:30:00	29.42	276	0.13	6.9	1.44	18.9
8/5/2003	14:45:00	29.44	276	0.13	6.91	1.51	19.8
8/5/2003	15:00:00	29.4	276	0.13	6.9	1.36	17.8
8/5/2003	15:15:00	29.46	276	0.13	6.9	1.4	18.3
8/5/2003	15:30:00	29.52	276	0.13	6.9	1.48	19.5
8/5/2003	15:45:00	29.46	277	0.13	6.9	1.31	17.2

8/5/2003	16:00:00	29.5	276	0.13	6.89	1.33	17.5
8/5/2003	16:15:00	29.58	276	0.13	6.9	1.39	18.3
8/5/2003	16:30:00	29.5	276	0.13	6.95	1.84	24.1
8/5/2003	16:45:00	29.75	272	0.13	6.87	1.42	18.7
8/5/2003	17:00:00	30.09	270	0.13	6.85	1.79	23.7
8/5/2003	17:15:00	30.44	270	0.13	6.9	2.57	34.3
8/5/2003	17:30:00	30.53	272	0.13	6.91	2.84	38
8/5/2003	17:45:00	30.73	273	0.13	6.92	2.94	39.5
8/5/2003	18:00:00	30.74	274	0.13	6.92	3.03	40.6
8/5/2003	18:15:00	30.72	274	0.13	6.92	3.09	41.4
8/5/2003	18:30:00	30.72	275	0.13	6.93	3.02	40.4
8/5/2003	18:45:00	30.6	275	0.13	6.91	2.7	36.1
8/5/2003	19:00:00	30.36	276	0.13	6.88	2.12	28.2
8/5/2003	19:15:00	30.15	276	0.13	6.87	1.89	25
8/5/2003	19:30:00	30.18	276	0.13	6.88	1.86	24.7
8/5/2003	19:45:00	30.17	275	0.13	6.88	1.87	24.8
8/5/2003	20:00:00	30.12	275	0.13	6.88	1.87	24.9
8/5/2003	20:15:00	30.11	275	0.13	6.87	1.86	24.7
8/5/2003	20:30:00	30.11	275	0.13	6.87	1.83	24.3
8/5/2003	20:45:00	30.07	275	0.13	6.87	1.77	23.5
8/5/2003	21:00:00	30.05	275	0.13	6.87	1.76	23.3
8/5/2003	21:15:00	30.02	275	0.13	6.87	1.78	23.6
8/5/2003	21:30:00	30.01	275	0.13	6.87	1.75	23.2
8/5/2003	21:45:00	29.98	275	0.13	6.88	1.84	24.3
8/5/2003	22:00:00	29.98	275	0.13	6.87	1.76	23.3
8/5/2003	22:15:00	29.96	275	0.13	6.87	1.72	22.8
8/5/2003	22:30:00	29.94	275	0.13	6.87	1.69	22.3
8/5/2003	22:45:00	29.9	275	0.13	6.87	1.7	22.5
8/5/2003	23:00:00	29.89	275	0.13	6.87	1.71	22.6
8/5/2003	23:15:00	29.87	275	0.13	6.87	1.7	22.4
8/5/2003	23:30:00	29.86	275	0.13	6.87	1.68	22.2

8/5/2003	23:45:00	29.83	275	0.13	6.87	1.68	22.2
8/6/2003	0:00:00	29.81	275	0.13	6.87	1.67	22.1
8/6/2003	0:15:00	29.81	275	0.13	6.87	1.65	21.8
8/6/2003	0:30:00	29.77	275	0.13	6.87	1.59	21
8/6/2003	0:45:00	29.76	275	0.13	6.87	1.61	21.2
8/6/2003	1:00:00	29.73	275	0.13	6.87	1.56	20.6
8/6/2003	1:15:00	29.71	275	0.13	6.87	1.56	20.5
8/6/2003	1:30:00	29.69	275	0.13	6.87	1.56	20.6
8/6/2003	1:45:00	29.68	275	0.13	6.87	1.52	20
8/6/2003	2:00:00	29.65	275	0.13	6.87	1.54	20.3
8/6/2003	2:15:00	29.64	275	0.13	6.87	1.53	20.1
8/6/2003	2:30:00	29.62	275	0.13	6.87	1.48	19.5
8/6/2003	2:45:00	29.6	275	0.13	6.87	1.46	19.2
8/6/2003	3:00:00	29.58	275	0.13	6.87	1.47	19.4
8/6/2003	3:15:00	29.56	275	0.13	6.87	1.45	19.1
8/6/2003	3:30:00	29.54	275	0.13	6.87	1.45	19.1
8/6/2003	3:45:00	29.53	275	0.13	6.87	1.41	18.5
8/6/2003	4:00:00	29.51	275	0.13	6.87	1.39	18.2
8/6/2003	4:15:00	29.49	275	0.13	6.87	1.37	18
8/6/2003	4:30:00	29.48	275	0.13	6.87	1.34	17.6
8/6/2003	4:45:00	29.47	275	0.13	6.87	1.36	17.9
8/6/2003	5:00:00	29.44	275	0.13	6.87	1.35	17.7
8/6/2003	5:15:00	29.44	275	0.13	6.87	1.36	17.8
8/6/2003	5:30:00	29.41	276	0.13	6.87	1.3	17.1
8/6/2003	5:45:00	29.41	276	0.13	6.87	1.29	16.9
8/6/2003	6:00:00	29.38	276	0.13	6.87	1.22	16
8/6/2003	6:15:00	29.37	276	0.13	6.87	1.22	15.9
8/6/2003	6:30:00	29.35	276	0.13	6.87	1.18	15.5
8/6/2003	6:45:00	29.34	276	0.13	6.87	1.18	15.5
8/6/2003	7:00:00	29.33	276	0.13	6.87	1.17	15.3
8/6/2003	7:15:00	29.31	276	0.13	6.87	1.1	14.5

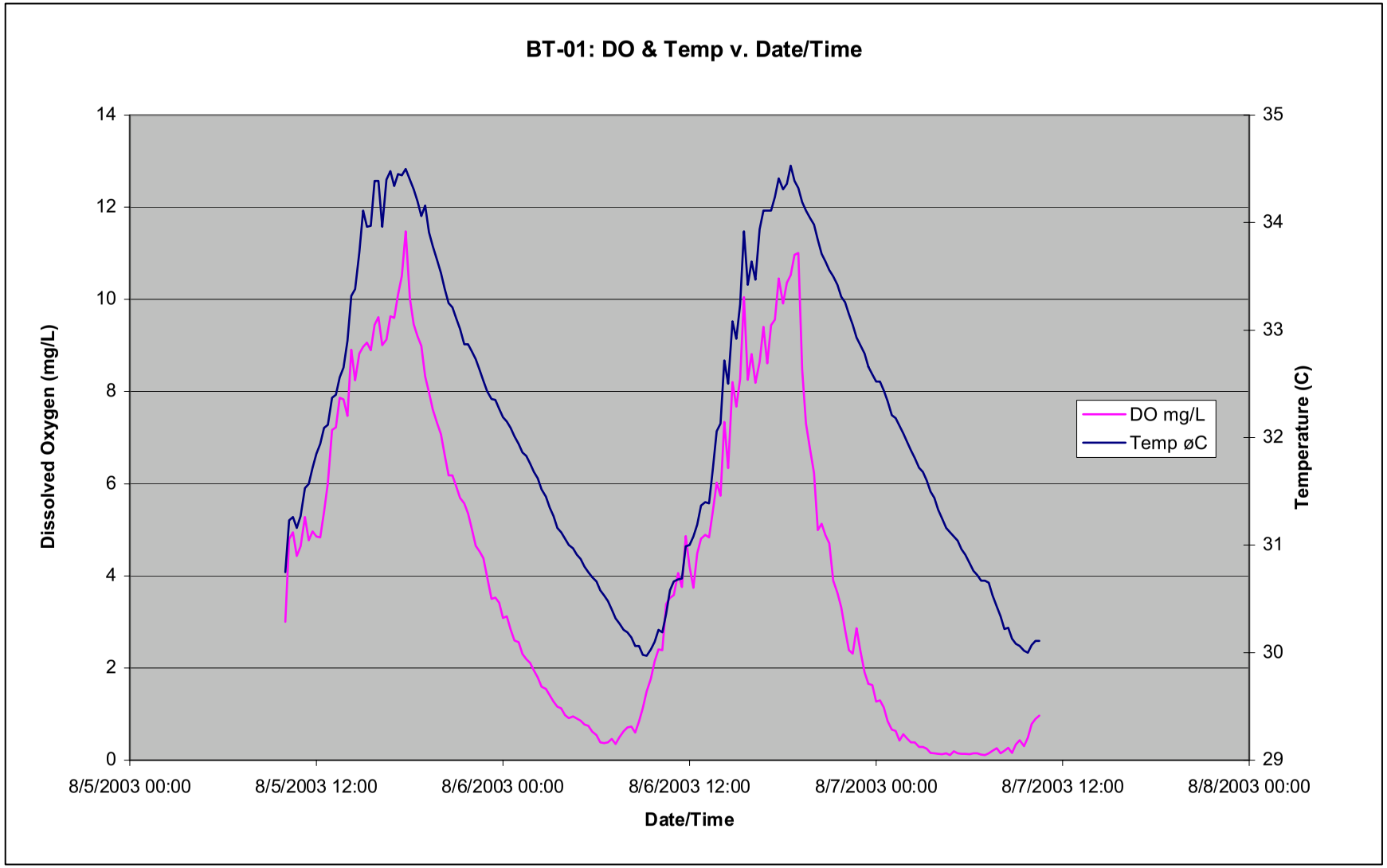
8/6/2003	7:30:00	29.31	276	0.13	6.87	1.19	15.5
8/6/2003	7:45:00	29.31	276	0.13	6.87	1.13	14.7
8/6/2003	8:00:00	29.31	276	0.13	6.87	1.1	14.5
8/6/2003	8:15:00	29.3	276	0.13	6.87	1.09	14.2
8/6/2003	8:30:00	29.33	276	0.13	6.87	1.1	14.4
8/6/2003	8:45:00	29.33	276	0.13	6.87	1.08	14.2
8/6/2003	9:00:00	29.35	276	0.13	6.87	1.12	14.6
8/6/2003	9:15:00	29.35	276	0.13	6.87	1.06	13.9
8/6/2003	9:30:00	29.34	276	0.13	6.87	1.08	14.2
8/6/2003	9:45:00	29.37	276	0.13	6.87	0.99	13
8/6/2003	10:00:00	29.37	276	0.13	6.87	0.98	12.9
8/6/2003	10:15:00	29.35	276	0.13	6.87	0.92	12.1
8/6/2003	10:30:00	29.4	276	0.13	6.86	0.9	11.7
8/6/2003	10:45:00	29.43	276	0.13	6.87	1	13.1
8/6/2003	11:00:00	29.46	276	0.13	6.87	1.06	13.9
8/6/2003	11:15:00	29.52	276	0.13	6.87	1.07	14.1
8/6/2003	11:30:00	29.56	276	0.13	6.87	1.12	14.7
8/6/2003	11:45:00	29.85	276	0.13	6.88	1.29	17.1
8/6/2003	12:00:00	30.06	276	0.13	6.89	1.67	22.2
8/6/2003	12:15:00	30.03	276	0.13	6.89	1.74	23.1
8/6/2003	12:30:00	29.9	276	0.13	6.89	1.54	20.3
8/6/2003	12:45:00	29.88	276	0.13	6.89	1.6	21.2
8/6/2003	13:00:00	29.93	276	0.13	6.89	1.67	22.2
8/6/2003	13:15:00	30.01	275	0.13	6.89	1.67	22.2
8/6/2003	13:30:00	30.08	276	0.13	6.9	2.01	26.7
8/6/2003	13:45:00	30.14	276	0.13	6.9	2.22	29.4
8/6/2003	14:00:00	30.19	276	0.13	6.89	1.87	24.9
8/6/2003	14:15:00	30.21	276	0.13	6.9	2.22	29.5
8/6/2003	14:30:00	30.22	276	0.13	6.9	1.99	26.4
8/6/2003	14:45:00	30.43	275	0.13	6.9	2.29	30.6
8/6/2003	15:00:00	30.46	275	0.13	6.9	2.35	31.4

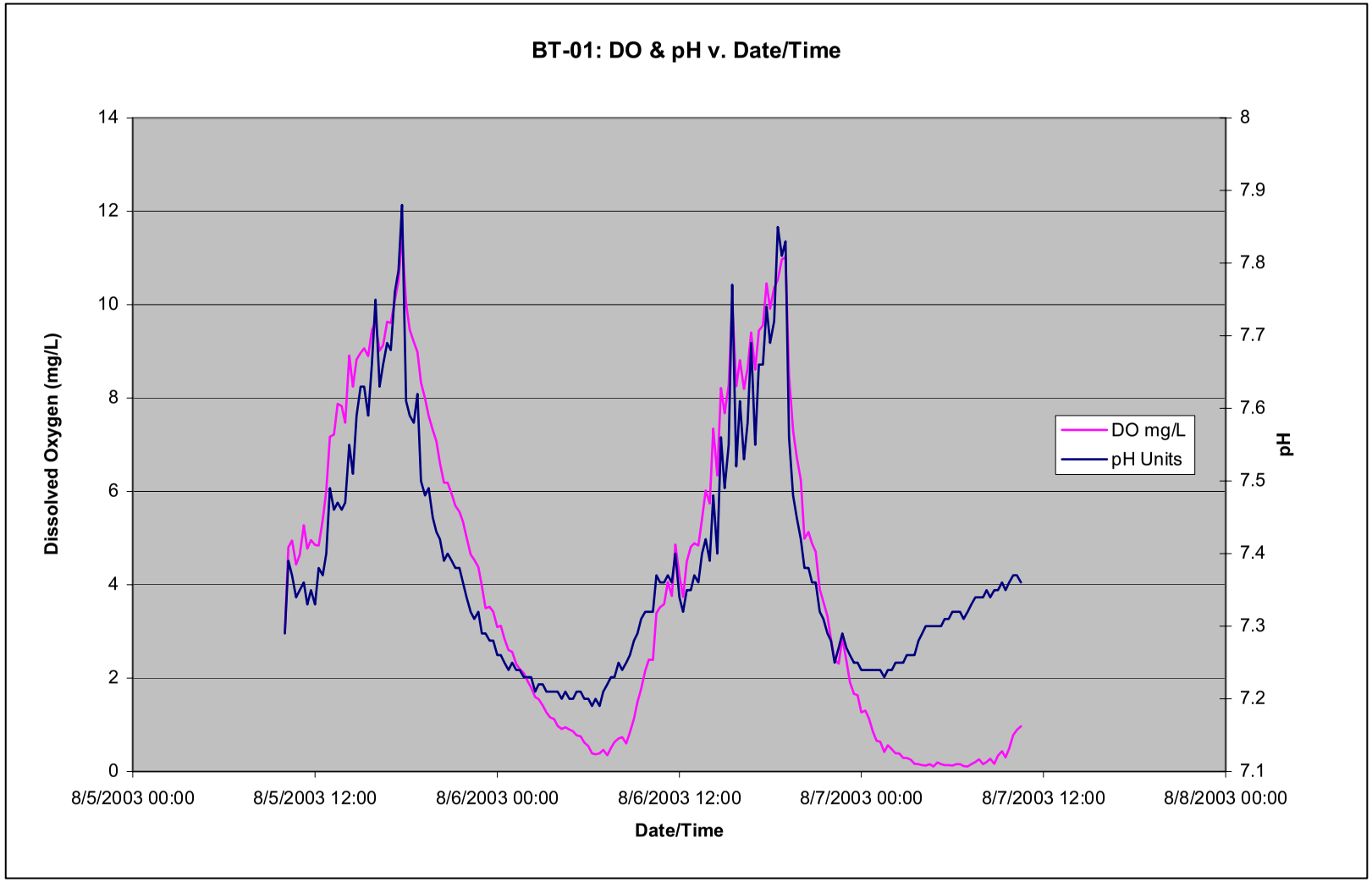
8/6/2003	15:15:00	30.44	276	0.13	6.91	2.6	34.7
8/6/2003	15:30:00	30.5	276	0.13	6.91	2.61	34.9
8/6/2003	15:45:00	30.43	276	0.13	6.9	2.25	30
8/6/2003	16:00:00	30.37	276	0.13	6.9	2.05	27.3
8/6/2003	16:15:00	30.37	276	0.13	6.9	2.27	30.2
8/6/2003	16:30:00	30.49	276	0.13	6.9	2.52	33.6
8/6/2003	16:45:00	30.51	276	0.13	6.9	2.33	31.1
8/6/2003	17:00:00	30.5	276	0.13	6.9	2.28	30.5
8/6/2003	17:15:00	30.58	276	0.13	6.91	2.43	32.6
8/6/2003	17:30:00	30.68	276	0.13	6.92	2.46	32.9
8/6/2003	17:45:00	30.75	276	0.13	6.92	2.56	34.4
8/6/2003	18:00:00	30.96	275	0.13	6.92	2.77	37.3
8/6/2003	18:15:00	30.92	275	0.13	6.93	2.99	40.3
8/6/2003	18:30:00	30.85	275	0.13	6.92	2.92	39.2
8/6/2003	18:45:00	30.93	275	0.13	6.92	2.84	38.2
8/6/2003	19:00:00	30.89	276	0.13	6.93	2.95	39.6
8/6/2003	19:15:00	30.93	276	0.13	6.92	2.92	39.3
8/6/2003	19:30:00	30.86	276	0.13	6.93	2.9	39
8/6/2003	19:45:00	30.84	276	0.13	6.92	2.76	37
8/6/2003	20:00:00	30.73	276	0.13	6.91	2.53	33.9
8/6/2003	20:15:00	30.65	276	0.13	6.9	2.51	33.6
8/6/2003	20:30:00	30.54	276	0.13	6.9	2.34	31.2
8/6/2003	20:45:00	30.34	276	0.13	6.9	1.98	26.4
8/6/2003	21:00:00	30.25	277	0.13	6.89	1.86	24.8
8/6/2003	21:15:00	30.17	277	0.13	6.89	1.65	21.9
8/6/2003	21:30:00	30.2	277	0.13	6.88	1.65	21.9
8/6/2003	21:45:00	30.22	277	0.13	6.89	1.81	24.1
8/6/2003	22:00:00	30.16	277	0.13	6.89	1.73	22.9
8/6/2003	22:15:00	30.18	277	0.13	6.89	1.75	23.3
8/6/2003	22:30:00	30.23	277	0.13	6.9	1.94	25.8
8/6/2003	22:45:00	30.21	278	0.13	6.91	1.78	23.6

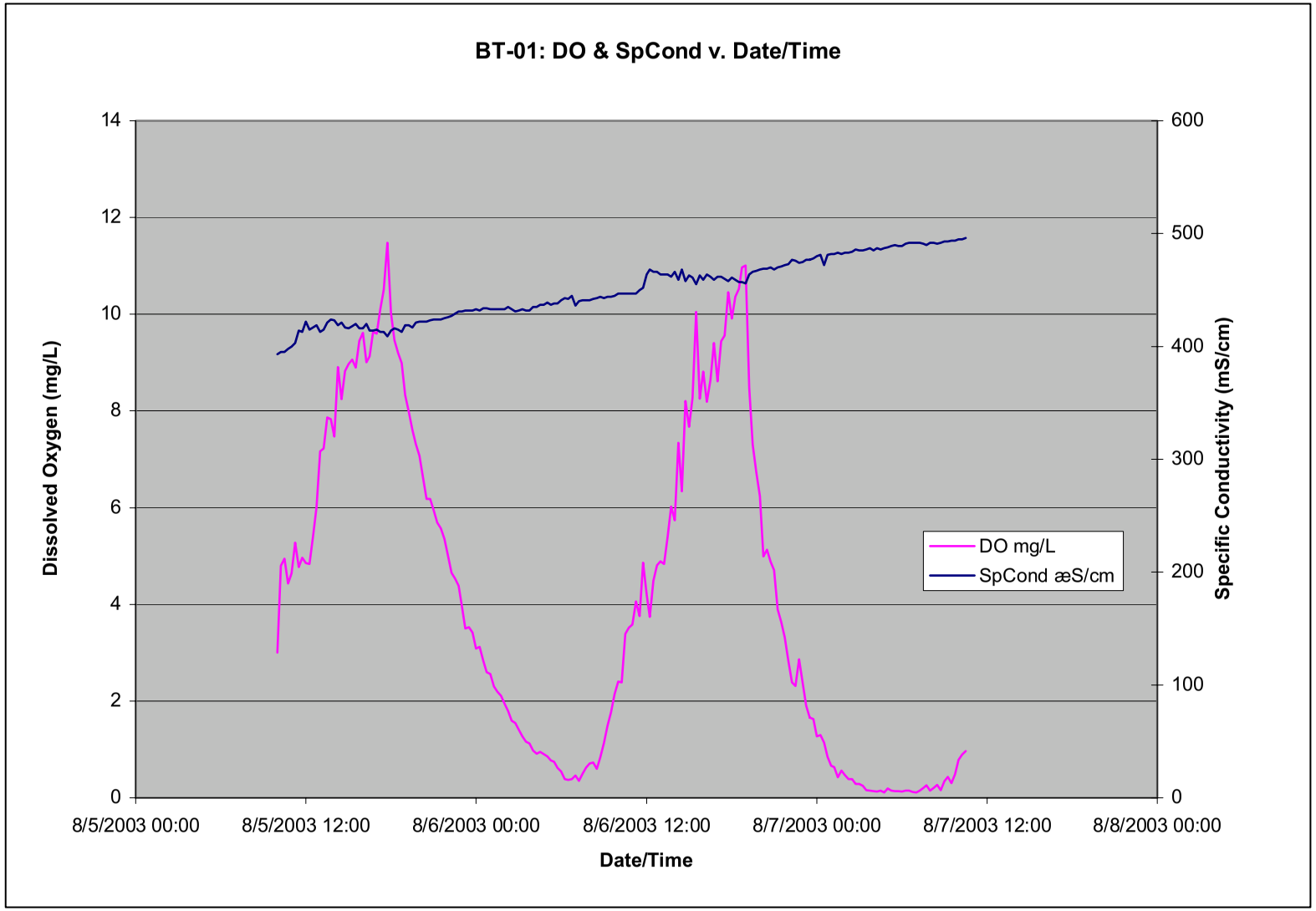
8/6/2003	23:00:00	30.19	278	0.13	6.92	1.78	23.6
8/6/2003	23:15:00	30.16	279	0.13	6.94	1.79	23.7
8/6/2003	23:30:00	30.22	278	0.13	6.93	1.69	22.4
8/6/2003	23:45:00	30.07	278	0.13	6.92	1.55	20.6
8/7/2003	0:00:00	30.25	277	0.13	6.92	1.78	23.7
8/7/2003	0:15:00	30.19	277	0.13	6.91	1.56	20.8
8/7/2003	0:30:00	30.15	277	0.13	6.92	1.52	20.1
8/7/2003	0:45:00	30.13	277	0.13	6.91	1.62	21.5
8/7/2003	1:00:00	30.16	277	0.13	6.94	2.14	28.5
8/7/2003	1:15:00	30.16	278	0.13	6.93	1.84	24.4
8/7/2003	1:30:00	30.16	277	0.13	6.95	2.47	32.8
8/7/2003	1:45:00	30.13	277	0.13	6.97	2.82	37.4
8/7/2003	2:00:00	30.06	277	0.13	6.98	3.08	40.8
8/7/2003	2:15:00	29.96	279	0.13	6.94	1.97	26.1
8/7/2003	2:30:00	30	278	0.13	6.97	2.94	39
8/7/2003	2:45:00	29.97	278	0.13	6.98	3.12	41.3
8/7/2003	3:00:00	29.92	278	0.13	6.97	2.85	37.7
8/7/2003	3:15:00	29.89	278	0.13	6.97	2.81	37.1
8/7/2003	3:30:00	29.84	278	0.13	6.97	2.88	38.1
8/7/2003	3:45:00	29.8	278	0.13	6.96	2.77	36.6
8/7/2003	4:00:00	29.78	278	0.13	6.96	2.64	34.8
8/7/2003	4:15:00	29.74	278	0.13	6.96	2.64	34.9
8/7/2003	4:30:00	29.72	278	0.13	6.96	2.62	34.5
8/7/2003	4:45:00	29.68	278	0.13	6.96	2.54	33.5
8/7/2003	5:00:00	29.65	279	0.13	6.96	2.52	33.1
8/7/2003	5:15:00	29.62	279	0.13	6.96	2.52	33.2
8/7/2003	5:30:00	29.6	279	0.13	6.95	2.32	30.6
8/7/2003	5:45:00	29.57	278	0.13	6.96	2.56	33.6
8/7/2003	6:00:00	29.55	279	0.13	6.95	2.37	31.2
8/7/2003	6:15:00	29.52	279	0.13	6.95	2.36	31
8/7/2003	6:30:00	29.5	279	0.13	6.96	2.41	31.6

8/7/2003	6:45:00	29.48	278	0.13	6.96	2.46	32.2
8/7/2003	7:00:00	29.47	279	0.13	6.96	2.46	32.2
8/7/2003	7:15:00	29.46	279	0.13	6.96	2.46	32.2
8/7/2003	7:30:00	29.47	277	0.13	6.9	1.28	16.7
8/7/2003	7:45:00	29.38	278	0.13	6.81	0.6	7.8
8/7/2003	8:00:00	29.58	276	0.13	6.87	1.61	21.2
8/7/2003	8:15:00	29.49	276	0.13	6.87	1.66	21.7
8/7/2003	8:30:00	29.43	276	0.13	6.88	1.93	25.3
8/7/2003	8:45:00	29.38	277	0.13	6.89	1.96	25.7
8/7/2003	9:00:00	29.32	279	0.13	6.89	1.83	24
8/7/2003	9:15:00	29.27	278	0.13	6.9	1.94	25.3
8/7/2003	9:30:00	29.25	279	0.13	6.89	1.82	23.8
8/7/2003	9:45:00	29.19	278	0.13	6.88	1.59	20.8
8/7/2003	10:00:00	29.13	279	0.13	6.86	1.28	16.7
8/7/2003	10:15:00	29.23	278	0.13	6.87	1.56	20.3
8/7/2003	10:30:00	29.25	278	0.13	6.87	1.48	19.4
8/7/2003	10:45:00	29.27	278	0.13	6.87	1.5	19.6
8/7/2003	11:00:00	29.31	278	0.13	6.87	1.56	20.4
8/7/2003	11:15:00	29.36	278	0.13	6.87	1.63	21.4
8/7/2003	11:30:00	29.46	278	0.13	6.87	1.74	22.8
8/7/2003	11:45:00	29.66	278	0.13	6.88	1.98	26.1
8/7/2003	12:00:00	29.74	278	0.13	6.88	2.09	27.5

Recovery finished at 080803 123445


BT-01: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
DO mg/L
Temp øC
0
2
4
6
8
10
12
14
29
30
31
32
33
34
35
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00


BT-01: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
pH
Date/Time
DO mg/L
pH Units
14
12
10
8
6
4
2
0
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00


BT-01: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
DO mg/L
SpCond æS/cm
0
2
4
6
8
10
12
14
0
100
200
300
400
500
600
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00

MiniSonde 4a 40803
Log File Name : BT-01
Setup Date (MMDDYY) : 080403
Setup Time (HHMMSS) : 105330
Starting Date (MMDDYY) : 080403
Starting Time (HHMMSS) : 110000
Stopping Date (MMDDYY) : 122503
Stopping Time (HHMMSS) : 235959
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS	Temp øC	SpCond æS/cm	Sal ppt	pH Units	DO mg/l	DO% Sat
8/5/2003	10:00:00	30.75	393	0.2	7.29	3	40.2
8/5/2003	10:15:00	31.23	395	0.2	7.39	4.8	65
8/5/2003	10:30:00	31.26	395	0.2	7.37	4.95	67
8/5/2003	10:45:00	31.16	398	0.2	7.34	4.43	59.9
8/5/2003	11:00:00	31.27	400	0.2	7.35	4.64	62.9
8/5/2003	11:15:00	31.53	403	0.2	7.36	5.28	71.8
8/5/2003	11:30:00	31.57	414	0.21	7.33	4.77	64.9
8/5/2003	11:45:00	31.72	413	0.21	7.35	4.96	67.7
8/5/2003	12:00:00	31.85	422	0.21	7.33	4.85	66.4
8/5/2003	12:15:00	31.94	415	0.21	7.38	4.84	66.2
8/5/2003	12:30:00	32.09	417	0.21	7.37	5.39	74
8/5/2003	12:45:00	32.12	419	0.21	7.4	6.01	82.6
8/5/2003	13:00:00	32.37	413	0.21	7.49	7.17	99
8/5/2003	13:15:00	32.4	415	0.21	7.46	7.22	99.6
8/5/2003	13:30:00	32.56	421	0.21	7.47	7.87	109

8/5/2003	13:45:00	32.65	424	0.21	7.46	7.83	108.6
8/5/2003	14:00:00	32.9	423	0.21	7.47	7.47	104
8/5/2003	14:15:00	33.32	419	0.21	7.55	8.91	124.9
8/5/2003	14:30:00	33.38	421	0.21	7.51	8.24	115.6
8/5/2003	14:45:00	33.72	417	0.21	7.59	8.82	124.4
8/5/2003	15:00:00	34.11	416	0.21	7.63	8.97	127.5
8/5/2003	15:15:00	33.96	418	0.21	7.63	9.06	128.3
8/5/2003	15:30:00	33.97	420	0.21	7.59	8.9	126.2
8/5/2003	15:45:00	34.39	416	0.21	7.66	9.45	134.8
8/5/2003	16:00:00	34.39	416	0.21	7.75	9.62	137.2
8/5/2003	16:15:00	33.96	420	0.21	7.63	9.01	127.7
8/5/2003	16:30:00	34.4	414	0.21	7.66	9.13	130.3
8/5/2003	16:45:00	34.48	414	0.21	7.69	9.63	137.5
8/5/2003	17:00:00	34.34	415	0.21	7.68	9.6	136.9
8/5/2003	17:15:00	34.45	413	0.21	7.76	10.1	144.3
8/5/2003	17:30:00	34.44	413	0.21	7.79	10.51	150.1
8/5/2003	17:45:00	34.5	409	0.2	7.88	11.48	164.1
8/5/2003	18:00:00	34.4	414	0.21	7.61	10.02	142.9
8/5/2003	18:15:00	34.31	416	0.21	7.59	9.46	134.8
8/5/2003	18:30:00	34.2	415	0.21	7.58	9.2	130.8
8/5/2003	18:45:00	34.06	413	0.21	7.62	8.99	127.5
8/5/2003	19:00:00	34.16	419	0.21	7.5	8.33	118.4
8/5/2003	19:15:00	33.91	419	0.21	7.48	7.99	113.1
8/5/2003	19:30:00	33.78	417	0.21	7.49	7.61	107.5
8/5/2003	19:45:00	33.65	421	0.21	7.45	7.31	103
8/5/2003	20:00:00	33.53	422	0.21	7.43	7.07	99.4
8/5/2003	20:15:00	33.38	422	0.21	7.42	6.61	92.7
8/5/2003	20:30:00	33.25	422	0.21	7.39	6.18	86.5
8/5/2003	20:45:00	33.21	423	0.21	7.4	6.18	86.5
8/5/2003	21:00:00	33.11	424	0.21	7.39	5.94	82.9
8/5/2003	21:15:00	33.01	424	0.21	7.38	5.69	79.3

8/5/2003	21:30:00	32.87	424	0.21	7.38	5.57	77.5
8/5/2003	21:45:00	32.87	425	0.21	7.36	5.35	74.4
8/5/2003	22:00:00	32.8	426	0.21	7.34	5.01	69.7
8/5/2003	22:15:00	32.73	427	0.21	7.32	4.65	64.6
8/5/2003	22:30:00	32.63	429	0.21	7.31	4.53	62.8
8/5/2003	22:45:00	32.53	431	0.22	7.32	4.38	60.6
8/5/2003	23:00:00	32.43	431	0.22	7.29	3.97	54.9
8/5/2003	23:15:00	32.36	432	0.22	7.29	3.5	48.2
8/5/2003	23:30:00	32.35	432	0.22	7.28	3.53	48.7
8/5/2003	23:45:00	32.27	432	0.22	7.28	3.42	47.1
8/6/2003	0:00:00	32.19	433	0.22	7.26	3.09	42.5
8/6/2003	0:15:00	32.15	432	0.22	7.26	3.12	42.9
8/6/2003	0:30:00	32.09	434	0.22	7.25	2.84	38.9
8/6/2003	0:45:00	32.01	434	0.22	7.24	2.6	35.6
8/6/2003	1:00:00	31.94	433	0.22	7.25	2.56	35.1
8/6/2003	1:15:00	31.86	433	0.22	7.24	2.3	31.5
8/6/2003	1:30:00	31.83	433	0.22	7.24	2.19	29.9
8/6/2003	1:45:00	31.76	433	0.22	7.23	2.11	28.8
8/6/2003	2:00:00	31.68	433	0.22	7.23	1.94	26.4
8/6/2003	2:15:00	31.62	435	0.22	7.23	1.8	24.5
8/6/2003	2:30:00	31.52	433	0.22	7.21	1.59	21.7
8/6/2003	2:45:00	31.45	431	0.22	7.22	1.55	21.1
8/6/2003	3:00:00	31.35	432	0.22	7.22	1.41	19.1
8/6/2003	3:15:00	31.27	433	0.22	7.21	1.27	17.2
8/6/2003	3:30:00	31.16	432	0.22	7.21	1.16	15.6
8/6/2003	3:45:00	31.12	432	0.22	7.21	1.12	15.2
8/6/2003	4:00:00	31.06	435	0.22	7.21	0.98	13.2
8/6/2003	4:15:00	31	435	0.22	7.2	0.91	12.3
8/6/2003	4:30:00	30.97	437	0.22	7.21	0.95	12.9
8/6/2003	4:45:00	30.91	437	0.22	7.2	0.9	12.1
8/6/2003	5:00:00	30.87	439	0.22	7.2	0.86	11.5

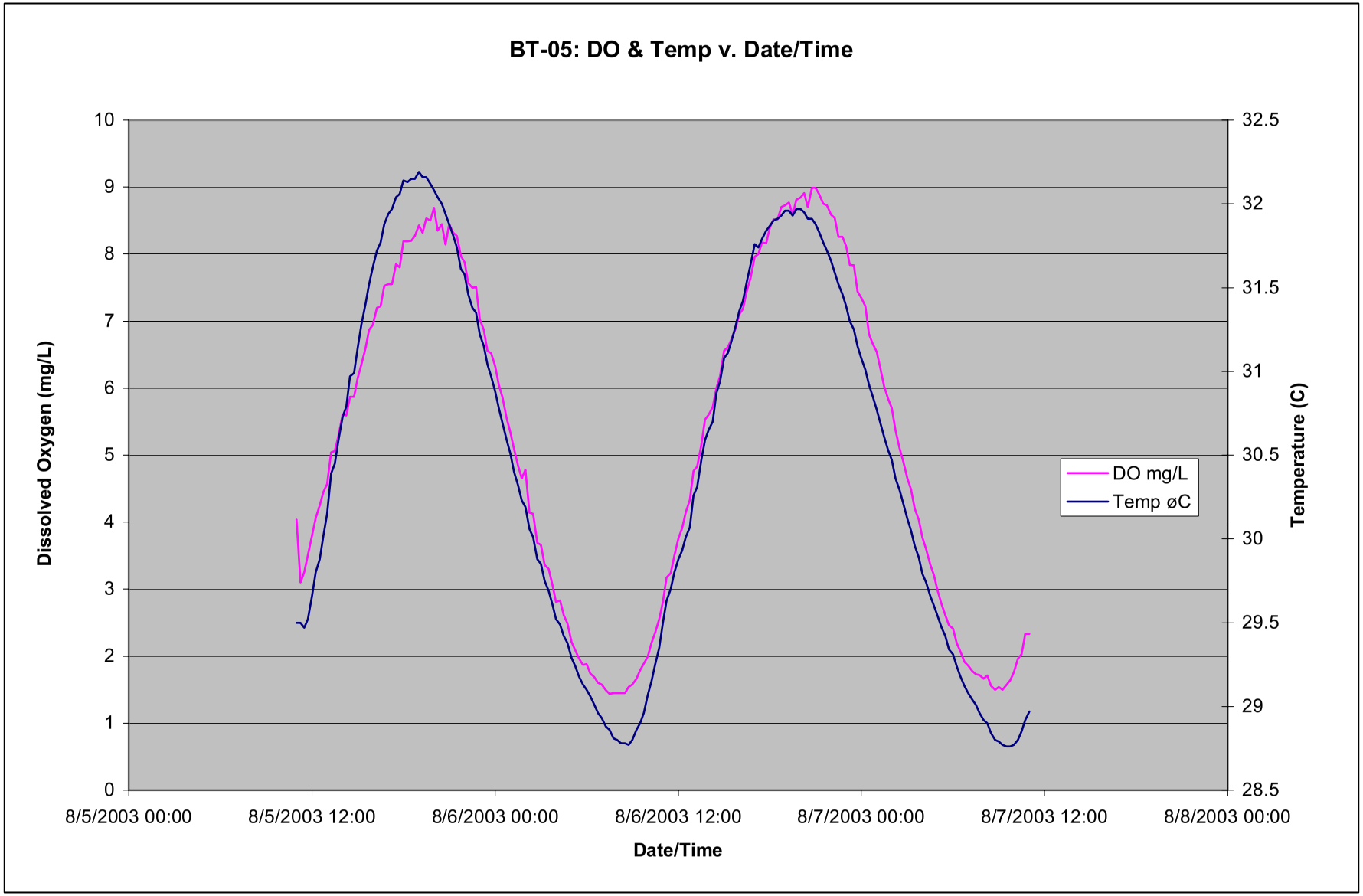
8/6/2003	5:15:00	30.8	437	0.22	7.21	0.77	10.4
8/6/2003	5:30:00	30.75	438	0.22	7.21	0.75	10.1
8/6/2003	5:45:00	30.7	438	0.22	7.2	0.62	8.3
8/6/2003	6:00:00	30.66	441	0.22	7.2	0.54	7.2
8/6/2003	6:15:00	30.58	443	0.22	7.19	0.39	5.2
8/6/2003	6:30:00	30.53	442	0.22	7.2	0.37	4.9
8/6/2003	6:45:00	30.48	445	0.22	7.19	0.39	5.2
8/6/2003	7:00:00	30.4	436	0.22	7.21	0.46	6.1
8/6/2003	7:15:00	30.32	440	0.22	7.22	0.35	4.6
8/6/2003	7:30:00	30.27	441	0.22	7.23	0.5	6.7
8/6/2003	7:45:00	30.21	441	0.22	7.23	0.63	8.3
8/6/2003	8:00:00	30.19	441	0.22	7.25	0.71	9.4
8/6/2003	8:15:00	30.14	442	0.22	7.24	0.73	9.7
8/6/2003	8:30:00	30.06	443	0.22	7.25	0.6	7.9
8/6/2003	8:45:00	30.06	444	0.22	7.26	0.84	11.1
8/6/2003	9:00:00	29.98	443	0.22	7.28	1.13	14.9
8/6/2003	9:15:00	29.97	444	0.22	7.29	1.49	19.7
8/6/2003	9:30:00	30.03	444	0.22	7.31	1.77	23.5
8/6/2003	9:45:00	30.1	445	0.22	7.32	2.15	28.5
8/6/2003	10:00:00	30.21	447	0.22	7.32	2.4	31.9
8/6/2003	10:15:00	30.19	447	0.22	7.32	2.39	31.7
8/6/2003	10:30:00	30.36	447	0.22	7.37	3.39	45.2
8/6/2003	10:45:00	30.58	447	0.22	7.36	3.52	47.1
8/6/2003	11:00:00	30.66	447	0.22	7.36	3.58	47.9
8/6/2003	11:15:00	30.68	447	0.22	7.37	4.06	54.4
8/6/2003	11:30:00	30.69	450	0.23	7.36	3.76	50.4
8/6/2003	11:45:00	30.99	452	0.23	7.4	4.86	65.5
8/6/2003	12:00:00	31	464	0.23	7.34	4.2	56.6
8/6/2003	12:15:00	31.08	468	0.24	7.32	3.74	50.5
8/6/2003	12:30:00	31.19	466	0.23	7.35	4.49	60.8
8/6/2003	12:45:00	31.37	466	0.23	7.35	4.81	65.3

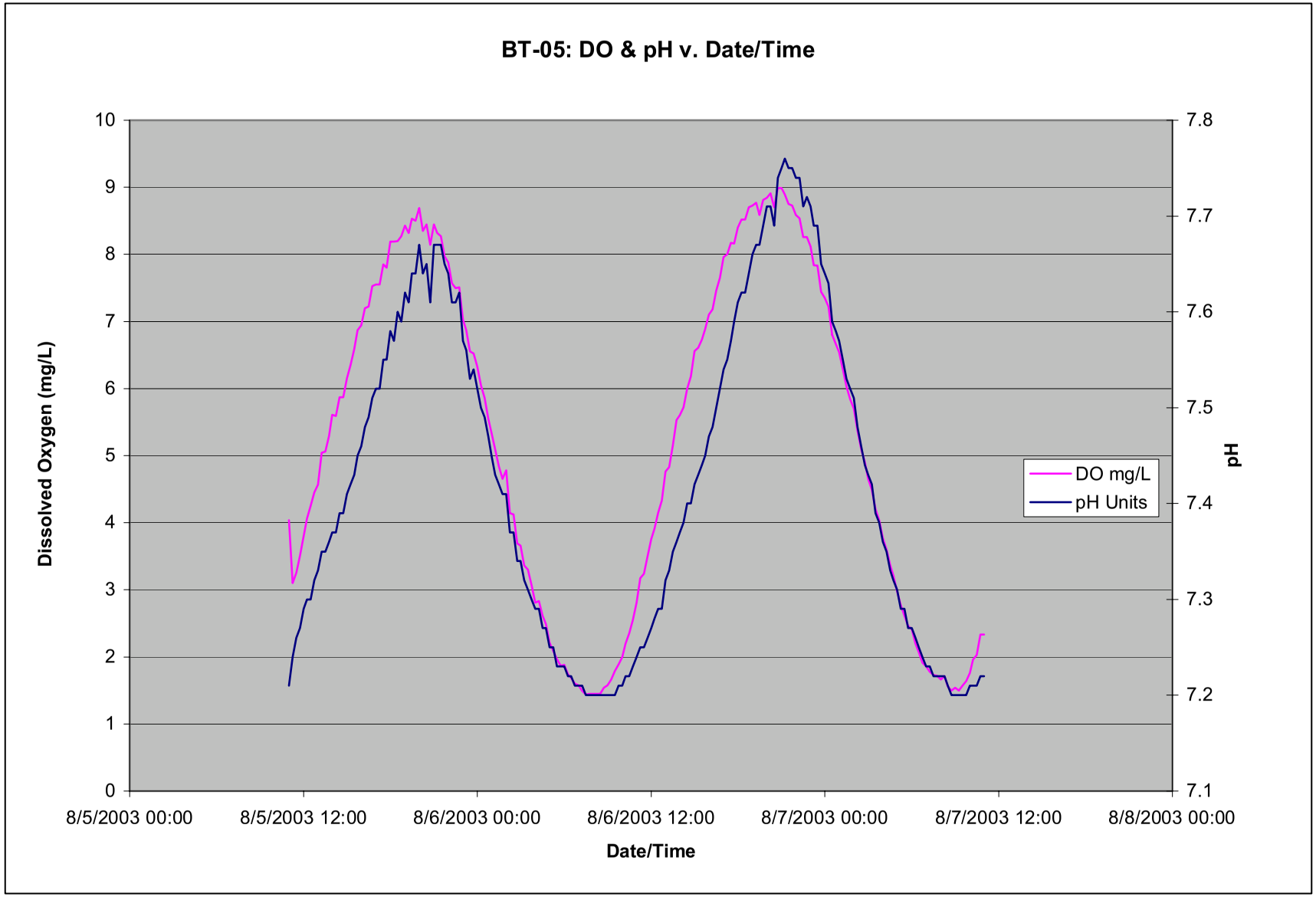
8/6/2003	13:00:00	31.4	464	0.23	7.37	4.89	66.4
8/6/2003	13:15:00	31.39	464	0.23	7.36	4.84	65.8
8/6/2003	13:30:00	31.71	464	0.23	7.4	5.41	73.8
8/6/2003	13:45:00	32.06	462	0.23	7.42	6.02	82.6
8/6/2003	14:00:00	32.13	466	0.23	7.39	5.74	78.8
8/6/2003	14:15:00	32.72	459	0.23	7.48	7.34	101.9
8/6/2003	14:30:00	32.5	468	0.24	7.4	6.34	87.6
8/6/2003	14:45:00	33.08	458	0.23	7.56	8.21	114.7
8/6/2003	15:00:00	32.92	463	0.23	7.49	7.67	106.9
8/6/2003	15:15:00	33.24	461	0.23	7.55	8.27	115.9
8/6/2003	15:30:00	33.92	455	0.23	7.77	10.05	142.3
8/6/2003	15:45:00	33.42	463	0.23	7.52	8.25	115.8
8/6/2003	16:00:00	33.64	459	0.23	7.61	8.81	124.2
8/6/2003	16:15:00	33.47	464	0.23	7.53	8.19	115.1
8/6/2003	16:30:00	33.94	462	0.23	7.58	8.64	122.4
8/6/2003	16:45:00	34.11	459	0.23	7.69	9.4	133.6
8/6/2003	17:00:00	34.11	462	0.23	7.55	8.61	122.3
8/6/2003	17:15:00	34.11	462	0.23	7.66	9.44	134.1
8/6/2003	17:30:00	34.24	460	0.23	7.66	9.56	136.1
8/6/2003	17:45:00	34.41	458	0.23	7.74	10.45	149.2
8/6/2003	18:00:00	34.31	461	0.23	7.69	9.91	141.2
8/6/2003	18:15:00	34.36	459	0.23	7.72	10.36	147.8
8/6/2003	18:30:00	34.53	457	0.23	7.85	10.53	150.6
8/6/2003	18:45:00	34.39	457	0.23	7.81	10.97	156.5
8/6/2003	19:00:00	34.32	456	0.23	7.83	11.01	156.9
8/6/2003	19:15:00	34.19	464	0.23	7.56	8.48	120.6
8/6/2003	19:30:00	34.11	466	0.23	7.48	7.3	103.7
8/6/2003	19:45:00	34.04	467	0.24	7.45	6.73	95.5
8/6/2003	20:00:00	33.98	468	0.24	7.42	6.24	88.5
8/6/2003	20:15:00	33.84	469	0.24	7.38	4.99	70.6
8/6/2003	20:30:00	33.71	469	0.24	7.38	5.13	72.4

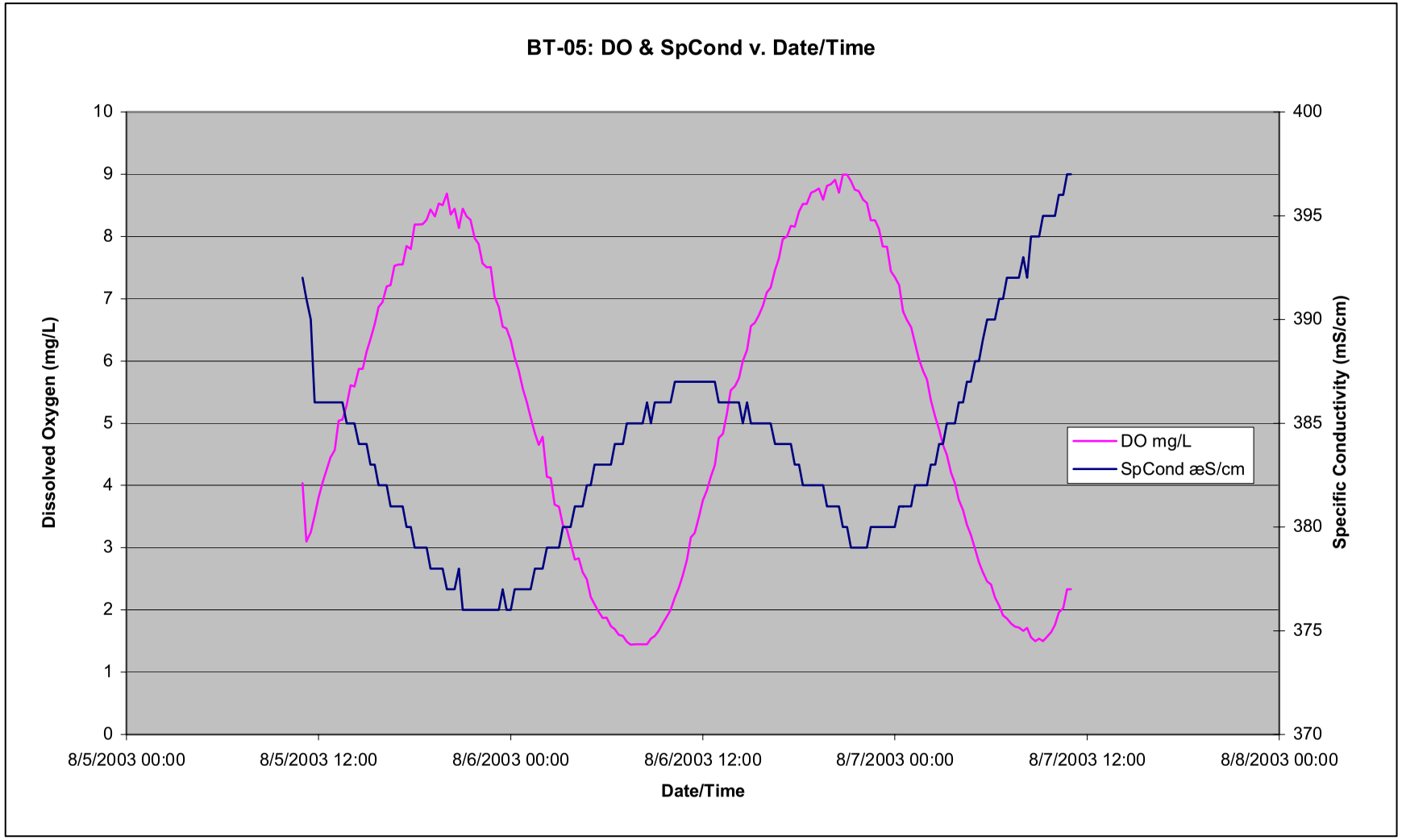
8/6/2003	20:45:00	33.64	470	0.24	7.36	4.88	68.8
8/6/2003	21:00:00	33.56	468	0.24	7.36	4.71	66.4
8/6/2003	21:15:00	33.5	470	0.24	7.32	3.9	54.8
8/6/2003	21:30:00	33.42	471	0.24	7.31	3.63	50.9
8/6/2003	21:45:00	33.31	472	0.24	7.29	3.32	46.6
8/6/2003	22:00:00	33.26	473	0.24	7.28	2.83	39.7
8/6/2003	22:15:00	33.15	477	0.24	7.25	2.39	33.4
8/6/2003	22:30:00	33.05	476	0.24	7.27	2.31	32.3
8/6/2003	22:45:00	32.93	474	0.24	7.29	2.86	39.8
8/6/2003	23:00:00	32.86	475	0.24	7.27	2.38	33.2
8/6/2003	23:15:00	32.78	477	0.24	7.26	1.91	26.6
8/6/2003	23:30:00	32.66	477	0.24	7.25	1.66	23
8/6/2003	23:45:00	32.59	478	0.24	7.25	1.63	22.6
8/7/2003	0:00:00	32.52	480	0.24	7.24	1.27	17.6
8/7/2003	0:15:00	32.52	481	0.24	7.24	1.3	18
8/7/2003	0:30:00	32.44	472	0.24	7.24	1.14	15.7
8/7/2003	0:45:00	32.34	481	0.24	7.24	0.85	11.7
8/7/2003	1:00:00	32.21	482	0.24	7.24	0.66	9
8/7/2003	1:15:00	32.18	482	0.24	7.24	0.64	8.8
8/7/2003	1:30:00	32.11	483	0.24	7.23	0.42	5.8
8/7/2003	1:45:00	32.04	482	0.24	7.24	0.56	7.7
8/7/2003	2:00:00	31.96	483	0.24	7.24	0.47	6.5
8/7/2003	2:15:00	31.88	483	0.24	7.25	0.39	5.4
8/7/2003	2:30:00	31.81	484	0.24	7.25	0.39	5.3
8/7/2003	2:45:00	31.72	486	0.25	7.25	0.29	4
8/7/2003	3:00:00	31.68	485	0.24	7.26	0.29	4
8/7/2003	3:15:00	31.6	485	0.24	7.26	0.25	3.4
8/7/2003	3:30:00	31.5	486	0.25	7.26	0.16	2.2
8/7/2003	3:45:00	31.44	487	0.25	7.28	0.15	2
8/7/2003	4:00:00	31.33	485	0.25	7.29	0.14	1.9
8/7/2003	4:15:00	31.25	487	0.25	7.3	0.13	1.7

8/7/2003	4:30:00	31.16	486	0.25	7.3	0.15	2.1
8/7/2003	4:45:00	31.12	487	0.25	7.3	0.11	1.5
8/7/2003	5:00:00	31.08	488	0.25	7.3	0.19	2.6
8/7/2003	5:15:00	31.04	489	0.25	7.3	0.15	2.1
8/7/2003	5:30:00	30.96	490	0.25	7.31	0.14	1.8
8/7/2003	5:45:00	30.91	489	0.25	7.31	0.14	1.8
8/7/2003	6:00:00	30.83	489	0.25	7.32	0.13	1.7
8/7/2003	6:15:00	30.76	491	0.25	7.32	0.15	2
8/7/2003	6:30:00	30.72	492	0.25	7.32	0.15	2.1
8/7/2003	6:45:00	30.67	492	0.25	7.31	0.12	1.7
8/7/2003	7:00:00	30.67	492	0.25	7.32	0.11	1.4
8/7/2003	7:15:00	30.65	492	0.25	7.33	0.15	2
8/7/2003	7:30:00	30.53	491	0.25	7.34	0.2	2.6
8/7/2003	7:45:00	30.43	490	0.25	7.34	0.26	3.4
8/7/2003	8:00:00	30.34	492	0.25	7.34	0.15	2.1
8/7/2003	8:15:00	30.22	492	0.25	7.35	0.2	2.7
8/7/2003	8:30:00	30.23	491	0.25	7.34	0.27	3.7
8/7/2003	8:45:00	30.13	492	0.25	7.35	0.16	2.1
8/7/2003	9:00:00	30.08	493	0.25	7.35	0.34	4.5
8/7/2003	9:15:00	30.06	493	0.25	7.36	0.43	5.7
8/7/2003	9:30:00	30.02	494	0.25	7.35	0.3	4
8/7/2003	9:45:00	30	494	0.25	7.36	0.49	6.5
8/7/2003	10:00:00	30.07	495	0.25	7.37	0.78	10.4
8/7/2003	10:15:00	30.11	495	0.25	7.37	0.89	11.8
8/7/2003	10:30:00	30.11	496	0.25	7.36	0.97	12.9

Recovery finished at 080803 102303


BT-05: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
DO mg/L
Temp øC
10
9
8
7
6
5
4
3
2
1
0
32.5
32
31.5
31
30.5
30
29.5
29
28.5
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00


BT-05: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
pH
Date/Time
DO mg/L
pH Units
10
9
8
7
6
5
4
3
2
1
0
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00


BT-05: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
DO mg/L
SpCond æS/cm
10
9
8
7
6
5
4
3
2
1
0
400
395
390
385
380
375
370
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00

MiniSonde 4a 40806
Log File Name : BT-05
Setup Date (MMDDYY) : 080403
Setup Time (HHMMSS) : 104815
Starting Date (MMDDYY) : 080403
Starting Time (HHMMSS) : 110000
Stopping Date (MMDDYY) : 122503
Stopping Time (HHMMSS) : 235959
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS	Temp øC	SpCond æS/cm	Sal ppt	pH Units	DO mg/l	DO% Sat
8/5/2003	11:00:00	29.5	392	0.2	7.2	4.0	53.0
8/5/2003	11:15:00	29.5	391	0.2	7.2	3.1	40.8
8/5/2003	11:30:00	29.5	390	0.2	7.3	3.3	42.6
8/5/2003	11:45:00	29.5	386	0.2	7.3	3.5	46.1
8/5/2003	12:00:00	29.7	386	0.2	7.3	3.8	50.0
8/5/2003	12:15:00	29.8	386	0.2	7.3	4.1	53.7
8/5/2003	12:30:00	29.9	386	0.2	7.3	4.3	56.2
8/5/2003	12:45:00	30.0	386	0.2	7.3	4.5	58.9
8/5/2003	13:00:00	30.2	386	0.2	7.3	4.6	60.7
8/5/2003	13:15:00	30.4	386	0.2	7.4	5.0	67.3
8/5/2003	13:30:00	30.5	386	0.2	7.4	5.1	67.6
8/5/2003	13:45:00	30.6	385	0.2	7.4	5.3	70.8
8/5/2003	14:00:00	30.7	385	0.2	7.4	5.6	75.2
8/5/2003	14:15:00	30.8	385	0.2	7.4	5.6	75.0

8/5/2003	14:30:00	31.0	384	0.2	7.4	5.9	79.1
8/5/2003	14:45:00	31.0	384	0.2	7.4	5.9	79.1
8/5/2003	15:00:00	31.1	384	0.2	7.4	6.2	83.1
8/5/2003	15:15:00	31.3	383	0.2	7.4	6.4	86.0
8/5/2003	15:30:00	31.4	383	0.2	7.4	6.6	89.5
8/5/2003	15:45:00	31.5	382	0.2	7.5	6.9	93.4
8/5/2003	16:00:00	31.6	382	0.2	7.5	6.9	94.6
8/5/2003	16:15:00	31.7	382	0.2	7.5	7.2	98.3
8/5/2003	16:30:00	31.8	381	0.2	7.5	7.2	98.5
8/5/2003	16:45:00	31.9	381	0.2	7.5	7.5	103.1
8/5/2003	17:00:00	31.9	381	0.2	7.5	7.6	103.4
8/5/2003	17:15:00	32.0	381	0.2	7.5	7.6	103.4
8/5/2003	17:30:00	32.0	380	0.2	7.6	7.9	107.7
8/5/2003	17:45:00	32.1	380	0.2	7.6	7.8	107.1
8/5/2003	18:00:00	32.1	379	0.2	7.6	8.2	112.6
8/5/2003	18:15:00	32.1	379	0.2	7.6	8.2	112.5
8/5/2003	18:30:00	32.2	379	0.2	7.6	8.2	112.7
8/5/2003	18:45:00	32.2	379	0.2	7.6	8.3	113.6
8/5/2003	19:00:00	32.2	378	0.2	7.6	8.4	116.0
8/5/2003	19:15:00	32.2	378	0.2	7.6	8.3	114.4
8/5/2003	19:30:00	32.2	378	0.2	7.6	8.5	117.3
8/5/2003	19:45:00	32.1	378	0.2	7.6	8.5	116.8
8/5/2003	20:00:00	32.1	377	0.2	7.7	8.7	119.3
8/5/2003	20:15:00	32.0	377	0.2	7.6	8.4	114.6
8/5/2003	20:30:00	32.0	377	0.2	7.7	8.5	115.8
8/5/2003	20:45:00	31.9	378	0.2	7.6	8.1	111.5
8/5/2003	21:00:00	31.9	376	0.2	7.7	8.5	115.7
8/5/2003	21:15:00	31.8	376	0.2	7.7	8.3	113.6
8/5/2003	21:30:00	31.7	376	0.2	7.7	8.3	112.8
8/5/2003	21:45:00	31.6	376	0.2	7.7	8.0	108.6
8/5/2003	22:00:00	31.6	376	0.2	7.6	7.9	107.3

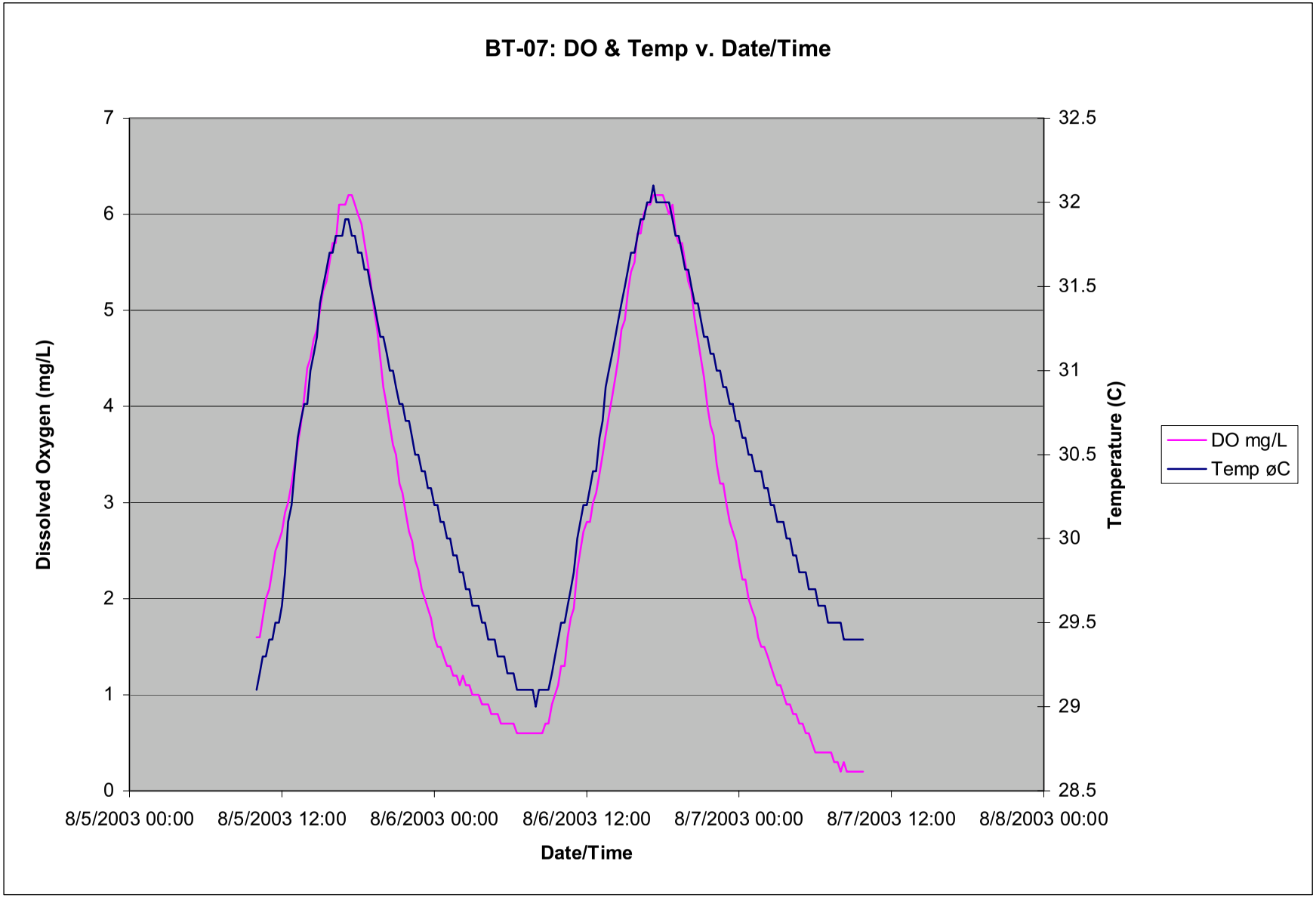
8/5/2003	22:15:00	31.5	376	0.2	7.6	7.6	102.9
8/5/2003	22:30:00	31.4	376	0.2	7.6	7.5	101.8
8/5/2003	22:45:00	31.4	376	0.2	7.6	7.5	101.9
8/5/2003	23:00:00	31.2	376	0.2	7.6	7.0	95.2
8/5/2003	23:15:00	31.2	376	0.2	7.6	6.9	92.9
8/5/2003	23:30:00	31.0	377	0.2	7.5	6.6	88.3
8/5/2003	23:45:00	31.0	376	0.2	7.5	6.5	87.8
8/6/2003	0:00:00	30.9	376	0.2	7.5	6.3	85.2
8/6/2003	0:15:00	30.8	377	0.2	7.5	6.1	81.3
8/6/2003	0:30:00	30.7	377	0.2	7.5	5.9	78.5
8/6/2003	0:45:00	30.6	377	0.2	7.5	5.6	74.3
8/6/2003	1:00:00	30.5	377	0.2	7.5	5.3	71.4
8/6/2003	1:15:00	30.4	377	0.2	7.4	5.1	67.8
8/6/2003	1:30:00	30.3	378	0.2	7.4	4.8	64.4
8/6/2003	1:45:00	30.2	378	0.2	7.4	4.7	61.8
8/6/2003	2:00:00	30.2	378	0.2	7.4	4.8	63.6
8/6/2003	2:15:00	30.1	379	0.2	7.4	4.1	54.9
8/6/2003	2:30:00	30.0	379	0.2	7.4	4.1	54.6
8/6/2003	2:45:00	29.9	379	0.2	7.3	3.7	48.8
8/6/2003	3:00:00	29.9	379	0.2	7.3	3.7	48.3
8/6/2003	3:15:00	29.8	380	0.2	7.3	3.4	44.3
8/6/2003	3:30:00	29.7	380	0.2	7.3	3.3	43.4
8/6/2003	3:45:00	29.6	380	0.2	7.3	3.1	40.4
8/6/2003	4:00:00	29.5	381	0.2	7.3	2.8	36.9
8/6/2003	4:15:00	29.5	381	0.2	7.3	2.8	37.2
8/6/2003	4:30:00	29.4	381	0.2	7.3	2.6	34.3
8/6/2003	4:45:00	29.4	382	0.2	7.3	2.5	32.7
8/6/2003	5:00:00	29.3	382	0.2	7.3	2.2	28.9
8/6/2003	5:15:00	29.2	383	0.2	7.3	2.1	27.4
8/6/2003	5:30:00	29.2	383	0.2	7.2	2.0	25.7
8/6/2003	5:45:00	29.1	383	0.2	7.2	1.9	24.5

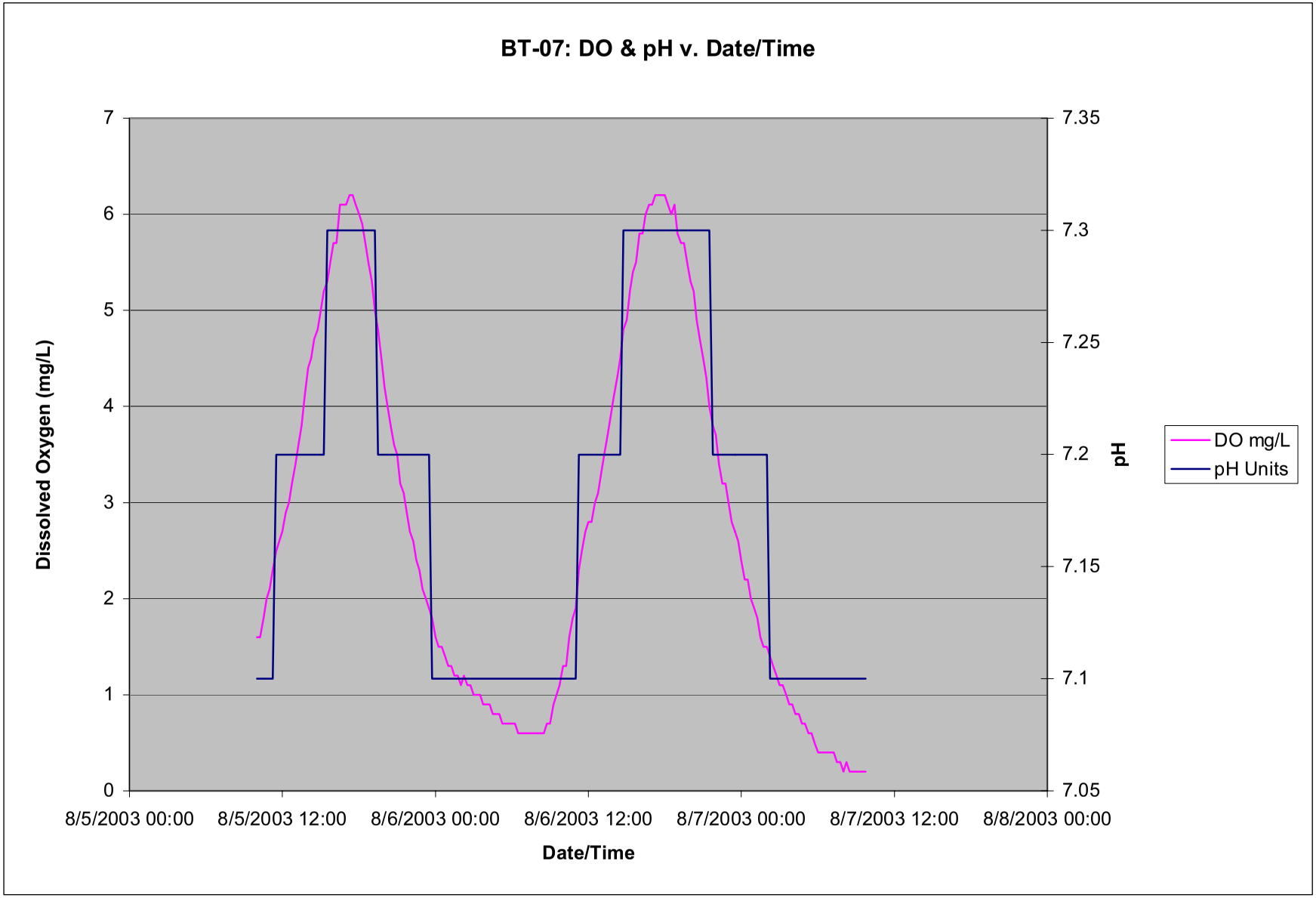
8/6/2003	6:00:00	29.1	383	0.2	7.2	1.9	24.5
8/6/2003	6:15:00	29.1	383	0.2	7.2	1.7	22.7
8/6/2003	6:30:00	29.0	384	0.2	7.2	1.7	22.0
8/6/2003	6:45:00	29.0	384	0.2	7.2	1.6	20.8
8/6/2003	7:00:00	28.9	384	0.2	7.2	1.6	20.6
8/6/2003	7:15:00	28.9	385	0.2	7.2	1.5	19.3
8/6/2003	7:30:00	28.9	385	0.2	7.2	1.4	18.7
8/6/2003	7:45:00	28.8	385	0.2	7.2	1.5	18.8
8/6/2003	8:00:00	28.8	385	0.2	7.2	1.5	18.9
8/6/2003	8:15:00	28.8	385	0.2	7.2	1.5	18.9
8/6/2003	8:30:00	28.8	386	0.2	7.2	1.5	18.9
8/6/2003	8:45:00	28.8	385	0.2	7.2	1.5	20.0
8/6/2003	9:00:00	28.8	386	0.2	7.2	1.6	20.5
8/6/2003	9:15:00	28.9	386	0.2	7.2	1.7	21.5
8/6/2003	9:30:00	28.9	386	0.2	7.2	1.8	23.2
8/6/2003	9:45:00	29.0	386	0.2	7.2	1.9	24.5
8/6/2003	10:00:00	29.1	386	0.2	7.2	2.0	26.1
8/6/2003	10:15:00	29.2	387	0.2	7.2	2.2	28.8
8/6/2003	10:30:00	29.3	387	0.2	7.2	2.4	30.7
8/6/2003	10:45:00	29.4	387	0.2	7.2	2.6	33.5
8/6/2003	11:00:00	29.5	387	0.2	7.2	2.8	37.0
8/6/2003	11:15:00	29.6	387	0.2	7.3	3.2	41.7
8/6/2003	11:30:00	29.7	387	0.2	7.3	3.2	42.7
8/6/2003	11:45:00	29.8	387	0.2	7.3	3.5	46.2
8/6/2003	12:00:00	29.9	387	0.2	7.3	3.8	49.7
8/6/2003	12:15:00	29.9	387	0.2	7.3	3.9	51.8
8/6/2003	12:30:00	30.0	387	0.2	7.3	4.2	55.0
8/6/2003	12:45:00	30.1	387	0.2	7.3	4.3	57.5
8/6/2003	13:00:00	30.3	386	0.2	7.3	4.8	63.4
8/6/2003	13:15:00	30.3	386	0.2	7.3	4.8	64.3
8/6/2003	13:30:00	30.5	386	0.2	7.4	5.2	68.8

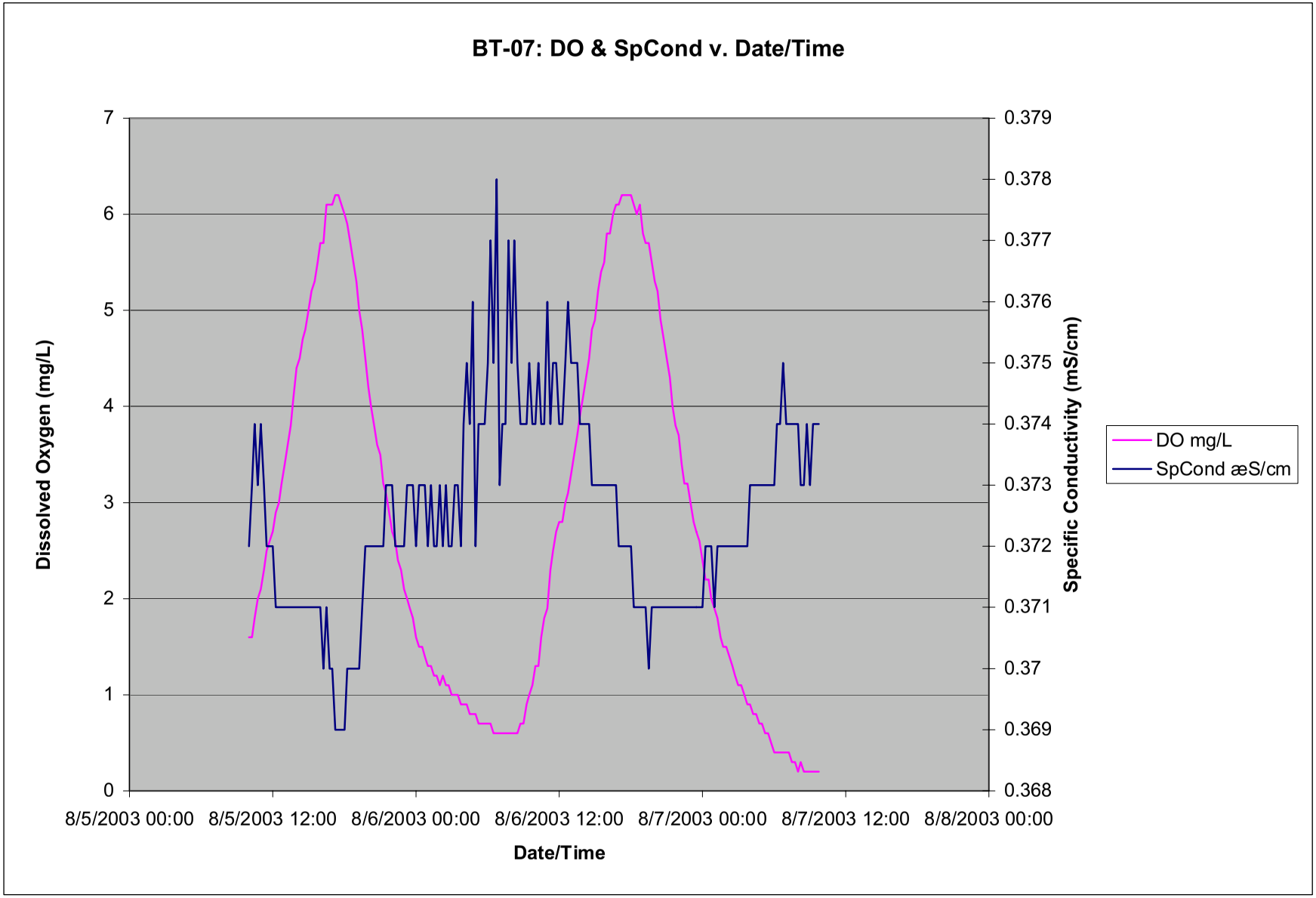
8/6/2003	13:45:00	30.6	386	0.2	7.4	5.5	74.0
8/6/2003	14:00:00	30.7	386	0.2	7.4	5.6	75.0
8/6/2003	14:15:00	30.7	386	0.2	7.4	5.7	76.8
8/6/2003	14:30:00	30.9	385	0.2	7.4	6.0	80.6
8/6/2003	14:45:00	30.9	386	0.2	7.4	6.2	83.2
8/6/2003	15:00:00	31.1	385	0.2	7.4	6.6	88.6
8/6/2003	15:15:00	31.1	385	0.2	7.4	6.6	89.2
8/6/2003	15:30:00	31.2	385	0.2	7.4	6.7	91.0
8/6/2003	15:45:00	31.3	385	0.2	7.5	6.9	93.3
8/6/2003	16:00:00	31.4	385	0.2	7.5	7.1	96.4
8/6/2003	16:15:00	31.4	385	0.2	7.5	7.2	97.4
8/6/2003	16:30:00	31.5	384	0.2	7.5	7.5	101.5
8/6/2003	16:45:00	31.6	384	0.2	7.5	7.7	104.3
8/6/2003	17:00:00	31.8	384	0.2	7.5	8.0	108.7
8/6/2003	17:15:00	31.7	384	0.2	7.6	8.0	109.2
8/6/2003	17:30:00	31.8	384	0.2	7.6	8.2	111.6
8/6/2003	17:45:00	31.8	383	0.2	7.6	8.2	111.6
8/6/2003	18:00:00	31.9	383	0.2	7.6	8.4	114.9
8/6/2003	18:15:00	31.9	382	0.2	7.6	8.5	116.6
8/6/2003	18:30:00	31.9	382	0.2	7.6	8.5	116.6
8/6/2003	18:45:00	31.9	382	0.2	7.6	8.7	119.1
8/6/2003	19:00:00	32.0	382	0.2	7.7	8.7	119.6
8/6/2003	19:15:00	32.0	382	0.2	7.7	8.8	120.2
8/6/2003	19:30:00	31.9	382	0.2	7.7	8.6	117.6
8/6/2003	19:45:00	32.0	381	0.2	7.7	8.8	120.8
8/6/2003	20:00:00	32.0	381	0.2	7.7	8.8	121.1
8/6/2003	20:15:00	32.0	381	0.2	7.7	8.9	122.1
8/6/2003	20:30:00	31.9	381	0.2	7.7	8.7	119.1
8/6/2003	20:45:00	31.9	380	0.2	7.7	9.0	123.0
8/6/2003	21:00:00	31.9	380	0.2	7.8	9.0	123.0
8/6/2003	21:15:00	31.8	379	0.2	7.8	8.9	121.6

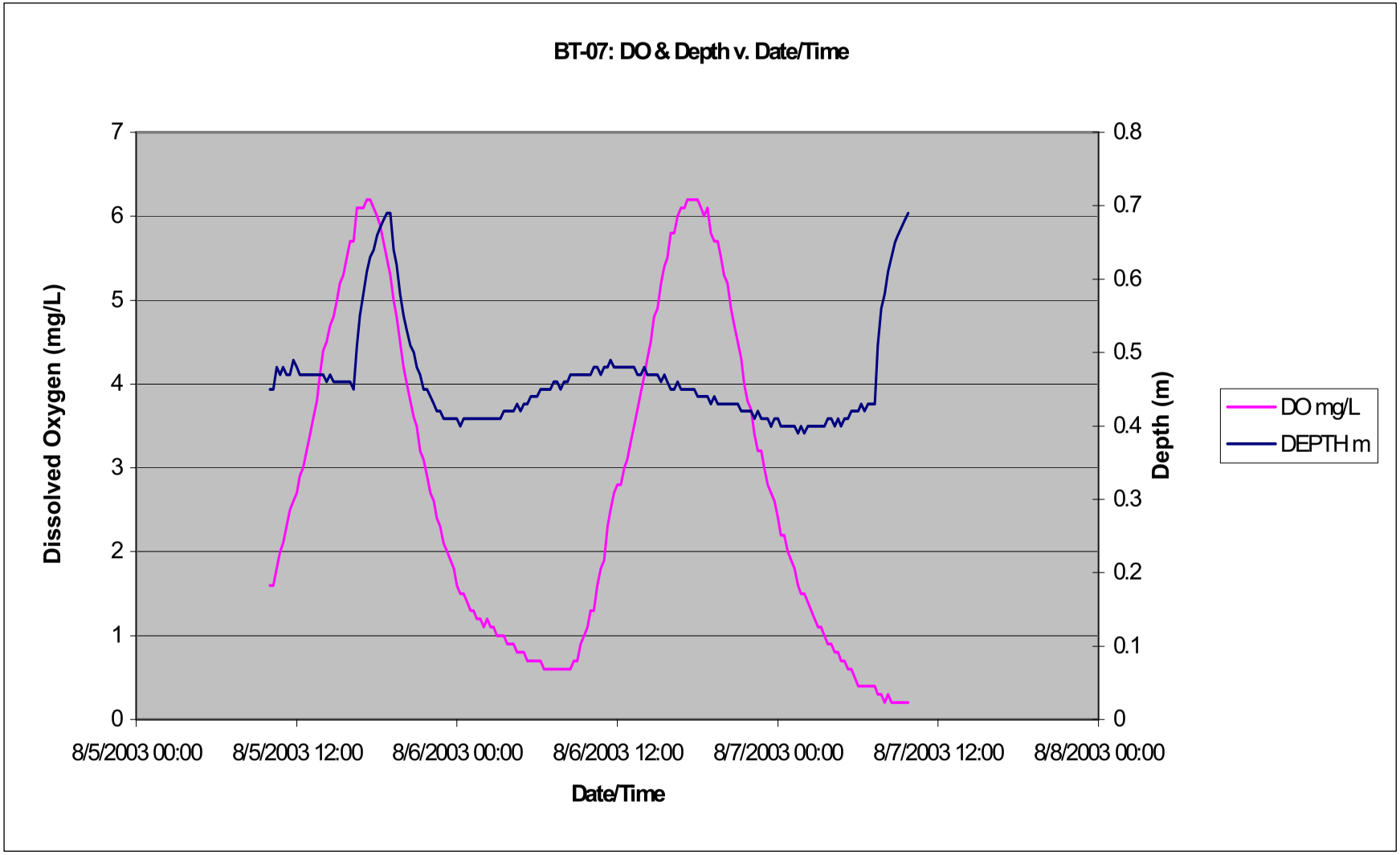
8/6/2003	21:30:00	31.8	379	0.2	7.8	8.8	119.6
8/6/2003	21:45:00	31.7	379	0.2	7.8	8.7	119.1
8/6/2003	22:00:00	31.7	379	0.2	7.7	8.6	117.1
8/6/2003	22:15:00	31.6	379	0.2	7.7	8.5	116.3
8/6/2003	22:30:00	31.5	380	0.2	7.7	8.3	112.3
8/6/2003	22:45:00	31.5	380	0.2	7.7	8.3	112.2
8/6/2003	23:00:00	31.4	380	0.2	7.7	8.1	110.2
8/6/2003	23:15:00	31.3	380	0.2	7.7	7.8	106.2
8/6/2003	23:30:00	31.3	380	0.2	7.7	7.8	106.0
8/6/2003	23:45:00	31.2	380	0.2	7.7	7.4	100.5
8/7/2003	0:00:00	31.1	380	0.2	7.6	7.4	99.1
8/7/2003	0:15:00	31.0	381	0.2	7.6	7.2	97.3
8/7/2003	0:30:00	30.9	381	0.2	7.6	6.8	91.5
8/7/2003	0:45:00	30.9	381	0.2	7.6	6.7	89.6
8/7/2003	1:00:00	30.8	381	0.2	7.6	6.5	87.9
8/7/2003	1:15:00	30.7	382	0.2	7.6	6.3	84.3
8/7/2003	1:30:00	30.6	382	0.2	7.5	6.0	80.7
8/7/2003	1:45:00	30.5	382	0.2	7.5	5.8	78.1
8/7/2003	2:00:00	30.5	382	0.2	7.5	5.7	76.2
8/7/2003	2:15:00	30.4	383	0.2	7.5	5.4	71.7
8/7/2003	2:30:00	30.3	383	0.2	7.5	5.1	67.9
8/7/2003	2:45:00	30.2	384	0.2	7.4	4.9	65.1
8/7/2003	3:00:00	30.1	384	0.2	7.4	4.7	61.8
8/7/2003	3:15:00	30.1	385	0.2	7.4	4.5	59.6
8/7/2003	3:30:00	30.0	385	0.2	7.4	4.2	55.6
8/7/2003	3:45:00	29.9	385	0.2	7.4	4.0	53.4
8/7/2003	4:00:00	29.8	386	0.2	7.4	3.8	49.8
8/7/2003	4:15:00	29.7	386	0.2	7.4	3.6	47.5
8/7/2003	4:30:00	29.7	387	0.2	7.3	3.4	44.4
8/7/2003	4:45:00	29.6	387	0.2	7.3	3.2	42.2
8/7/2003	5:00:00	29.5	388	0.2	7.3	3.0	39.1

8/7/2003	5:15:00	29.5	388	0.2	7.3	2.8	36.3
8/7/2003	5:30:00	29.4	389	0.2	7.3	2.6	34.2
8/7/2003	5:45:00	29.3	390	0.2	7.3	2.5	32.3
8/7/2003	6:00:00	29.3	390	0.2	7.3	2.4	31.5
8/7/2003	6:15:00	29.2	390	0.2	7.3	2.2	28.8
8/7/2003	6:30:00	29.2	391	0.2	7.3	2.1	27.0
8/7/2003	6:45:00	29.1	391	0.2	7.2	1.9	24.9
8/7/2003	7:00:00	29.1	392	0.2	7.2	1.9	24.2
8/7/2003	7:15:00	29.0	392	0.2	7.2	1.8	23.2
8/7/2003	7:30:00	29.0	392	0.2	7.2	1.7	22.6
8/7/2003	7:45:00	29.0	392	0.2	7.2	1.7	22.4
8/7/2003	8:00:00	28.9	393	0.2	7.2	1.7	21.6
8/7/2003	8:15:00	28.9	392	0.2	7.2	1.7	22.2
8/7/2003	8:30:00	28.8	394	0.2	7.2	1.6	20.2
8/7/2003	8:45:00	28.8	394	0.2	7.2	1.5	19.5
8/7/2003	9:00:00	28.8	394	0.2	7.2	1.5	19.9
8/7/2003	9:15:00	28.8	395	0.2	7.2	1.5	19.5
8/7/2003	9:30:00	28.8	395	0.2	7.2	1.6	20.4
8/7/2003	9:45:00	28.8	395	0.2	7.2	1.6	21.2
8/7/2003	10:00:00	28.8	395	0.2	7.2	1.8	22.8
8/7/2003	10:15:00	28.8	396	0.2	7.2	2.0	25.4
8/7/2003	10:30:00	28.9	396	0.2	7.2	2.0	26.3
8/7/2003	10:45:00	28.9	397	0.2	7.2	2.3	30.2
8/7/2003	11:00:00	29.0	397	0.2	7.2	2.3	30.3


BT-07: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
0
1
2
3
4
5
6
7
28.5
29
29.5
30
30.5
31
31.5
32
32.5
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00
DO mg/L
Temp øC


BT-07: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
7
6
5
4
3
2
1
0
7.35
7.3
7.25
7.2
7.15
7.1
7.05
pH
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00
Date/Time
DO mg/L
pH Units


BT-07: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
0
1
2
3
4
5
6
7
0.368
0.369
0.37
0.371
0.372
0.373
0.374
0.375
0.376
0.377
0.378
0.379
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00
DO mg/L
SpCond æS/cm


BT-07: DO & Depth v. Date/Time
Dissolved Oxygen (mg/L)
Depth (m)
Date/Time
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00
DO mg/L
DEPTH m

MiniSonde 4a 40006
Log File Name : BT-06/07
Setup Date (MMDDYY) : 080403
Setup Time (HHMMSS) : 125317
Starting Date (MMDDYY) : 080403
Starting Time (HHMMSS) : 130000
Stopping Date (MMDDYY) : 080809
Stopping Time (HHMMSS) : 235959
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS	Temp øC	pH Units	SpCond mS/cm	Sal ppt	DO% Sat	DO mg/l	Depth meters
8/5/2003	10:00:00	29.1	7.1	0.372	0.2	20.2	1.6	0.45
8/5/2003	10:15:00	29.2	7.1	0.373	0.2	21.5	1.6	0.45
8/5/2003	10:30:00	29.3	7.1	0.374	0.2	22.9	1.8	0.48
8/5/2003	10:45:00	29.3	7.1	0.373	0.2	26.0	2.0	0.47
8/5/2003	11:00:00	29.4	7.1	0.374	0.2	27.9	2.1	0.48
8/5/2003	11:15:00	29.4	7.1	0.373	0.2	30.2	2.3	0.47
8/5/2003	11:30:00	29.5	7.2	0.372	0.2	32.2	2.5	0.47
8/5/2003	11:45:00	29.5	7.2	0.372	0.2	33.8	2.6	0.49
8/5/2003	12:00:00	29.6	7.2	0.372	0.2	35.5	2.7	0.48
8/5/2003	12:15:00	29.8	7.2	0.371	0.2	37.8	2.9	0.47
8/5/2003	12:30:00	30.1	7.2	0.371	0.2	39.6	3.0	0.47
8/5/2003	12:45:00	30.2	7.2	0.371	0.2	42.0	3.2	0.47
8/5/2003	13:00:00	30.4	7.2	0.371	0.2	45.4	3.4	0.47

8/5/2003	13:15:00	30.6	7.2	0.371	0.2	48.2	3.6	0.47
8/5/2003	13:30:00	30.7	7.2	0.371	0.2	51.5	3.8	0.47
8/5/2003	13:45:00	30.8	7.2	0.371	0.2	54.8	4.1	0.47
8/5/2003	14:00:00	30.8	7.2	0.371	0.2	58.7	4.4	0.47
8/5/2003	14:15:00	31.0	7.2	0.371	0.2	61.1	4.5	0.46
8/5/2003	14:30:00	31.1	7.2	0.371	0.2	63.4	4.7	0.47
8/5/2003	14:45:00	31.2	7.2	0.371	0.2	65.1	4.8	0.46
8/5/2003	15:00:00	31.4	7.2	0.371	0.2	68.2	5.0	0.46
8/5/2003	15:15:00	31.5	7.2	0.371	0.2	69.9	5.2	0.46
8/5/2003	15:30:00	31.6	7.3	0.371	0.2	72.4	5.3	0.46
8/5/2003	15:45:00	31.7	7.3	0.371	0.2	74.9	5.5	0.46
8/5/2003	16:00:00	31.7	7.3	0.371	0.2	77.1	5.7	0.46
8/5/2003	16:15:00	31.8	7.3	0.37	0.2	78.2	5.7	0.45
8/5/2003	16:30:00	31.8	7.3	0.371	0.2	82.7	6.1	0.51
8/5/2003	16:45:00	31.8	7.3	0.37	0.2	83.3	6.1	0.55
8/5/2003	17:00:00	31.9	7.3	0.37	0.2	83.5	6.1	0.58
8/5/2003	17:15:00	31.9	7.3	0.369	0.2	85.3	6.2	0.61
8/5/2003	17:30:00	31.8	7.3	0.369	0.2	84.4	6.2	0.63
8/5/2003	17:45:00	31.8	7.3	0.369	0.2	83.8	6.1	0.64
8/5/2003	18:00:00	31.7	7.3	0.369	0.2	82.4	6.0	0.66
8/5/2003	18:15:00	31.7	7.3	0.37	0.2	80.4	5.9	0.67
8/5/2003	18:30:00	31.6	7.3	0.37	0.2	77.6	5.7	0.68
8/5/2003	18:45:00	31.6	7.3	0.37	0.2	74.3	5.5	0.69
8/5/2003	19:00:00	31.5	7.3	0.37	0.2	71.6	5.3	0.69
8/5/2003	19:15:00	31.4	7.3	0.37	0.2	67.7	5.0	0.64
8/5/2003	19:30:00	31.3	7.2	0.371	0.2	64.9	4.8	0.62
8/5/2003	19:45:00	31.2	7.2	0.372	0.2	60.6	4.5	0.58
8/5/2003	20:00:00	31.2	7.2	0.372	0.2	56.8	4.2	0.55
8/5/2003	20:15:00	31.1	7.2	0.372	0.2	54.3	4.0	0.53
8/5/2003	20:30:00	31.0	7.2	0.372	0.2	51.5	3.8	0.51
8/5/2003	20:45:00	31.0	7.2	0.372	0.2	49.0	3.6	0.50

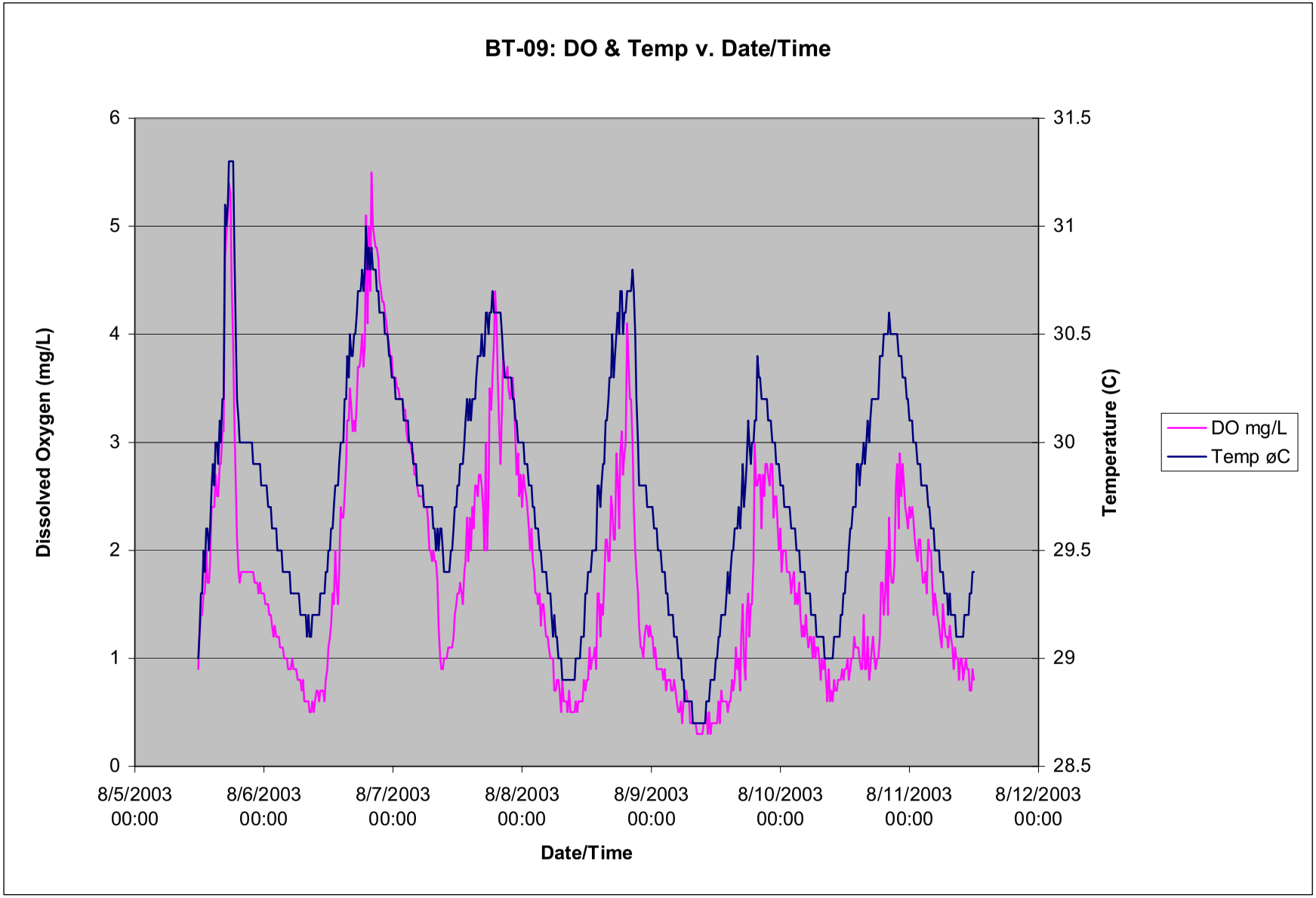
8/5/2003	21:00:00	30.9	7.2	0.372	0.2	46.4	3.5	0.48
8/5/2003	21:15:00	30.8	7.2	0.372	0.2	43.6	3.2	0.47
8/5/2003	21:30:00	30.8	7.2	0.373	0.2	41.7	3.1	0.45
8/5/2003	21:45:00	30.7	7.2	0.373	0.2	38.2	2.9	0.45
8/5/2003	22:00:00	30.7	7.2	0.373	0.2	36.1	2.7	0.44
8/5/2003	22:15:00	30.6	7.2	0.372	0.2	34.3	2.6	0.43
8/5/2003	22:30:00	30.5	7.2	0.372	0.2	32.7	2.4	0.42
8/5/2003	22:45:00	30.5	7.2	0.372	0.2	30.5	2.3	0.42
8/5/2003	23:00:00	30.4	7.2	0.372	0.2	27.9	2.1	0.41
8/5/2003	23:15:00	30.4	7.2	0.373	0.2	26.9	2.0	0.41
8/5/2003	23:30:00	30.3	7.2	0.373	0.2	25.3	1.9	0.41
8/5/2003	23:45:00	30.3	7.1	0.373	0.2	24.0	1.8	0.41
8/6/2003	0:00:00	30.2	7.1	0.372	0.2	21.5	1.6	0.41
8/6/2003	0:15:00	30.2	7.1	0.373	0.2	20.3	1.5	0.40
8/6/2003	0:30:00	30.1	7.1	0.373	0.2	19.7	1.5	0.41
8/6/2003	0:45:00	30.1	7.1	0.373	0.2	18.1	1.4	0.41
8/6/2003	1:00:00	30.0	7.1	0.372	0.2	17.4	1.3	0.41
8/6/2003	1:15:00	30.0	7.1	0.373	0.2	16.5	1.3	0.41
8/6/2003	1:30:00	29.9	7.1	0.372	0.2	15.9	1.2	0.41
8/6/2003	1:45:00	29.9	7.1	0.372	0.2	15.4	1.2	0.41
8/6/2003	2:00:00	29.8	7.1	0.373	0.2	14.8	1.1	0.41
8/6/2003	2:15:00	29.8	7.1	0.372	0.2	15.2	1.2	0.41
8/6/2003	2:30:00	29.7	7.1	0.373	0.2	14.2	1.1	0.41
8/6/2003	2:45:00	29.7	7.1	0.372	0.2	13.8	1.1	0.41
8/6/2003	3:00:00	29.6	7.1	0.372	0.2	13.0	1.0	0.41
8/6/2003	3:15:00	29.6	7.1	0.373	0.2	12.6	1.0	0.41
8/6/2003	3:30:00	29.6	7.1	0.373	0.2	12.5	1.0	0.42
8/6/2003	3:45:00	29.5	7.1	0.372	0.2	11.9	0.9	0.42
8/6/2003	4:00:00	29.5	7.1	0.374	0.2	12.0	0.9	0.42
8/6/2003	4:15:00	29.4	7.1	0.375	0.2	11.8	0.9	0.42
8/6/2003	4:30:00	29.4	7.1	0.374	0.2	10.6	0.8	0.43

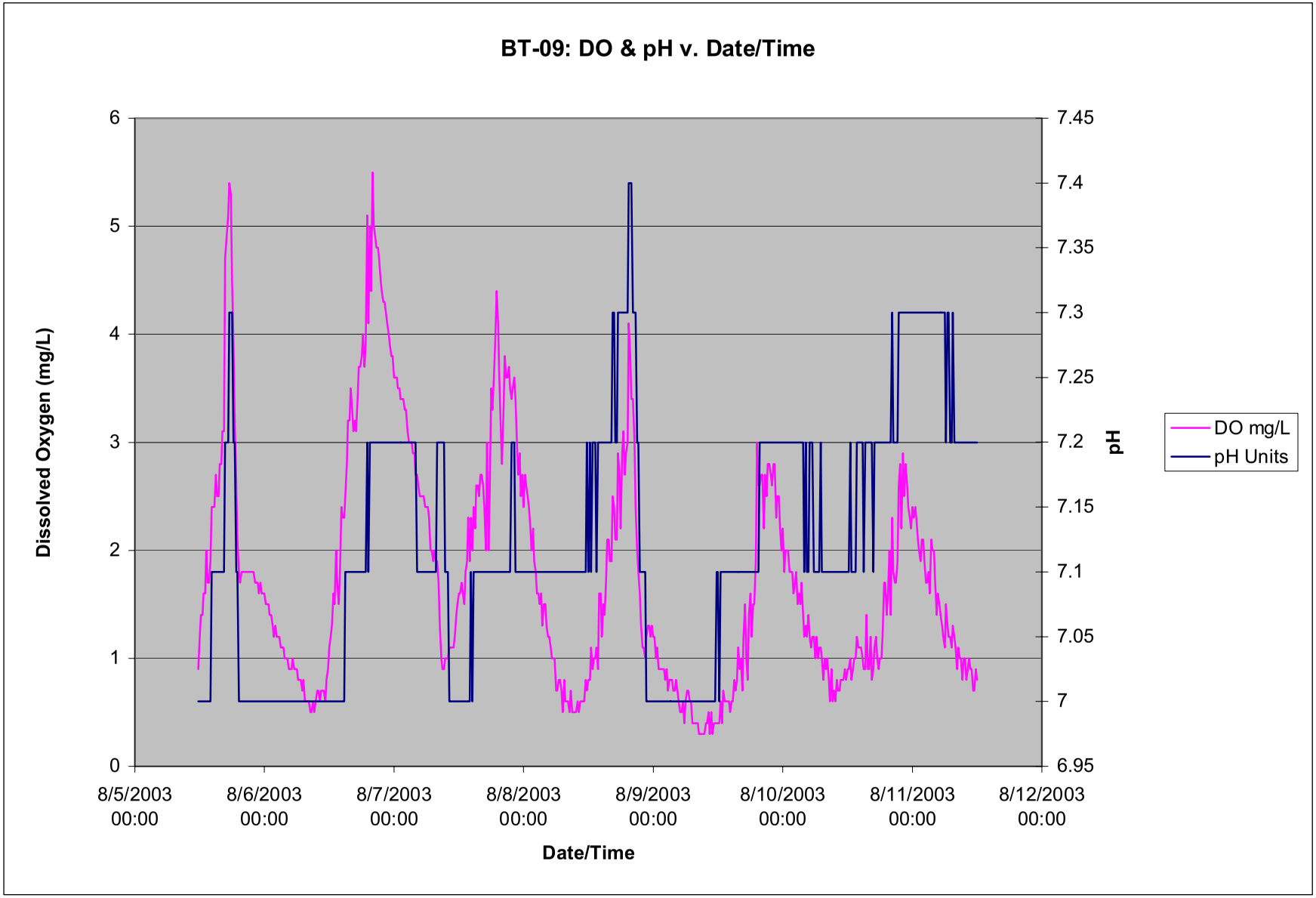
8/6/2003	4:45:00	29.4	7.1	0.376	0.2	10.1	0.8	0.42
8/6/2003	5:00:00	29.3	7.1	0.372	0.2	10.0	0.8	0.43
8/6/2003	5:15:00	29.3	7.1	0.374	0.2	9.7	0.7	0.43
8/6/2003	5:30:00	29.3	7.1	0.374	0.2	9.1	0.7	0.44
8/6/2003	5:45:00	29.2	7.1	0.374	0.2	9.0	0.7	0.44
8/6/2003	6:00:00	29.2	7.1	0.375	0.2	9.2	0.7	0.44
8/6/2003	6:15:00	29.2	7.1	0.377	0.2	8.6	0.7	0.45
8/6/2003	6:30:00	29.1	7.1	0.375	0.2	8.0	0.6	0.45
8/6/2003	6:45:00	29.1	7.1	0.378	0.2	8.1	0.6	0.45
8/6/2003	7:00:00	29.1	7.1	0.373	0.2	7.5	0.6	0.45
8/6/2003	7:15:00	29.1	7.1	0.374	0.2	7.9	0.6	0.46
8/6/2003	7:30:00	29.1	7.1	0.374	0.2	7.5	0.6	0.46
8/6/2003	7:45:00	29.1	7.1	0.377	0.2	7.8	0.6	0.45
8/6/2003	8:00:00	29.0	7.1	0.375	0.2	7.5	0.6	0.46
8/6/2003	8:15:00	29.1	7.1	0.377	0.2	8.3	0.6	0.46
8/6/2003	8:30:00	29.1	7.1	0.375	0.2	8.4	0.6	0.47
8/6/2003	8:45:00	29.1	7.1	0.374	0.2	9.0	0.7	0.47
8/6/2003	9:00:00	29.1	7.1	0.374	0.2	9.4	0.7	0.47
8/6/2003	9:15:00	29.2	7.1	0.374	0.2	11.0	0.9	0.47
8/6/2003	9:30:00	29.3	7.1	0.375	0.2	12.8	1.0	0.47
8/6/2003	9:45:00	29.4	7.1	0.374	0.2	14.8	1.1	0.47
8/6/2003	10:00:00	29.5	7.1	0.374	0.2	16.6	1.3	0.47
8/6/2003	10:15:00	29.5	7.1	0.375	0.2	17.5	1.3	0.48
8/6/2003	10:30:00	29.6	7.1	0.374	0.2	21.4	1.6	0.48
8/6/2003	10:45:00	29.7	7.1	0.374	0.2	23.7	1.8	0.47
8/6/2003	11:00:00	29.8	7.1	0.376	0.2	25.5	1.9	0.48
8/6/2003	11:15:00	30.0	7.2	0.374	0.2	30.2	2.3	0.48
8/6/2003	11:30:00	30.1	7.2	0.375	0.2	32.8	2.5	0.49
8/6/2003	11:45:00	30.2	7.2	0.375	0.2	35.2	2.7	0.48
8/6/2003	12:00:00	30.2	7.2	0.374	0.2	36.8	2.8	0.48
8/6/2003	12:15:00	30.3	7.2	0.374	0.2	37.6	2.8	0.48

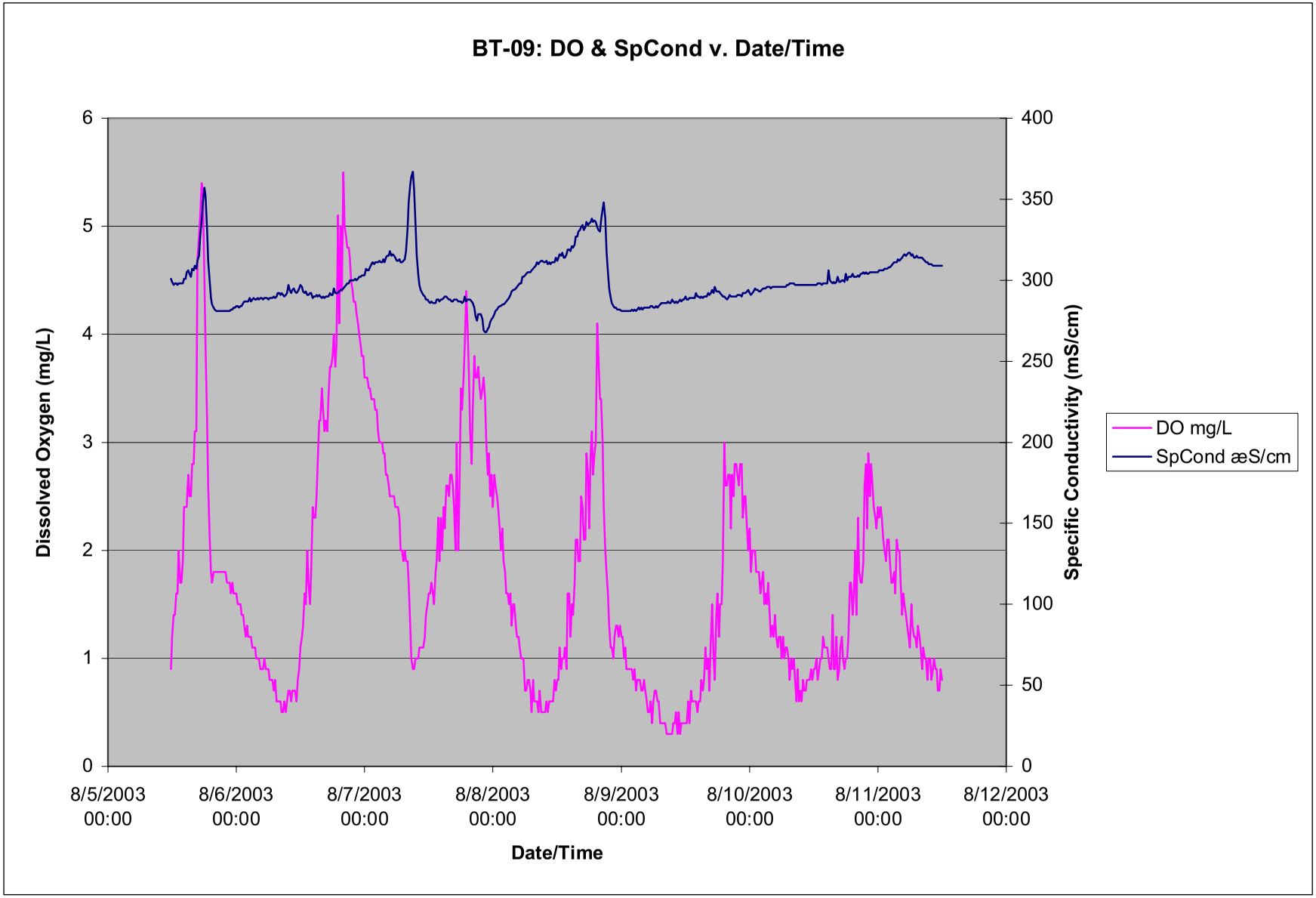
8/6/2003	12:30:00	30.4	7.2	0.375	0.2	40.5	3.0	0.48
8/6/2003	12:45:00	30.4	7.2	0.376	0.2	41.5	3.1	0.48
8/6/2003	13:00:00	30.6	7.2	0.375	0.2	44.7	3.3	0.48
8/6/2003	13:15:00	30.7	7.2	0.375	0.2	46.5	3.5	0.48
8/6/2003	13:30:00	30.9	7.2	0.375	0.2	50.0	3.7	0.47
8/6/2003	13:45:00	31.0	7.2	0.374	0.2	52.3	3.9	0.47
8/6/2003	14:00:00	31.1	7.2	0.374	0.2	55.9	4.1	0.48
8/6/2003	14:15:00	31.2	7.2	0.374	0.2	58.3	4.3	0.47
8/6/2003	14:30:00	31.3	7.2	0.374	0.2	60.7	4.5	0.47
8/6/2003	14:45:00	31.4	7.3	0.373	0.2	65.1	4.8	0.47
8/6/2003	15:00:00	31.5	7.3	0.373	0.2	67.2	4.9	0.47
8/6/2003	15:15:00	31.6	7.3	0.373	0.2	70.3	5.2	0.46
8/6/2003	15:30:00	31.7	7.3	0.373	0.2	73.2	5.4	0.47
8/6/2003	15:45:00	31.7	7.3	0.373	0.2	74.7	5.5	0.46
8/6/2003	16:00:00	31.8	7.3	0.373	0.2	78.9	5.8	0.45
8/6/2003	16:15:00	31.9	7.3	0.373	0.2	79.3	5.8	0.45
8/6/2003	16:30:00	31.9	7.3	0.373	0.2	82.4	6.0	0.46
8/6/2003	16:45:00	32.0	7.3	0.373	0.2	83.1	6.1	0.45
8/6/2003	17:00:00	32.0	7.3	0.372	0.2	84.0	6.1	0.45
8/6/2003	17:15:00	32.1	7.3	0.372	0.2	84.4	6.2	0.45
8/6/2003	17:30:00	32.0	7.3	0.372	0.2	84.5	6.2	0.45
8/6/2003	17:45:00	32.0	7.3	0.372	0.2	85.3	6.2	0.45
8/6/2003	18:00:00	32.0	7.3	0.372	0.2	85.4	6.2	0.44
8/6/2003	18:15:00	32.0	7.3	0.371	0.2	84.2	6.1	0.44
8/6/2003	18:30:00	32.0	7.3	0.371	0.2	82.3	6.0	0.44
8/6/2003	18:45:00	31.9	7.3	0.371	0.2	82.9	6.1	0.44
8/6/2003	19:00:00	31.8	7.3	0.371	0.2	79.1	5.8	0.43
8/6/2003	19:15:00	31.8	7.3	0.371	0.2	78.2	5.7	0.44
8/6/2003	19:30:00	31.7	7.3	0.37	0.2	77.2	5.7	0.43
8/6/2003	19:45:00	31.6	7.3	0.371	0.2	75.1	5.5	0.43
8/6/2003	20:00:00	31.6	7.3	0.371	0.2	72.5	5.3	0.43

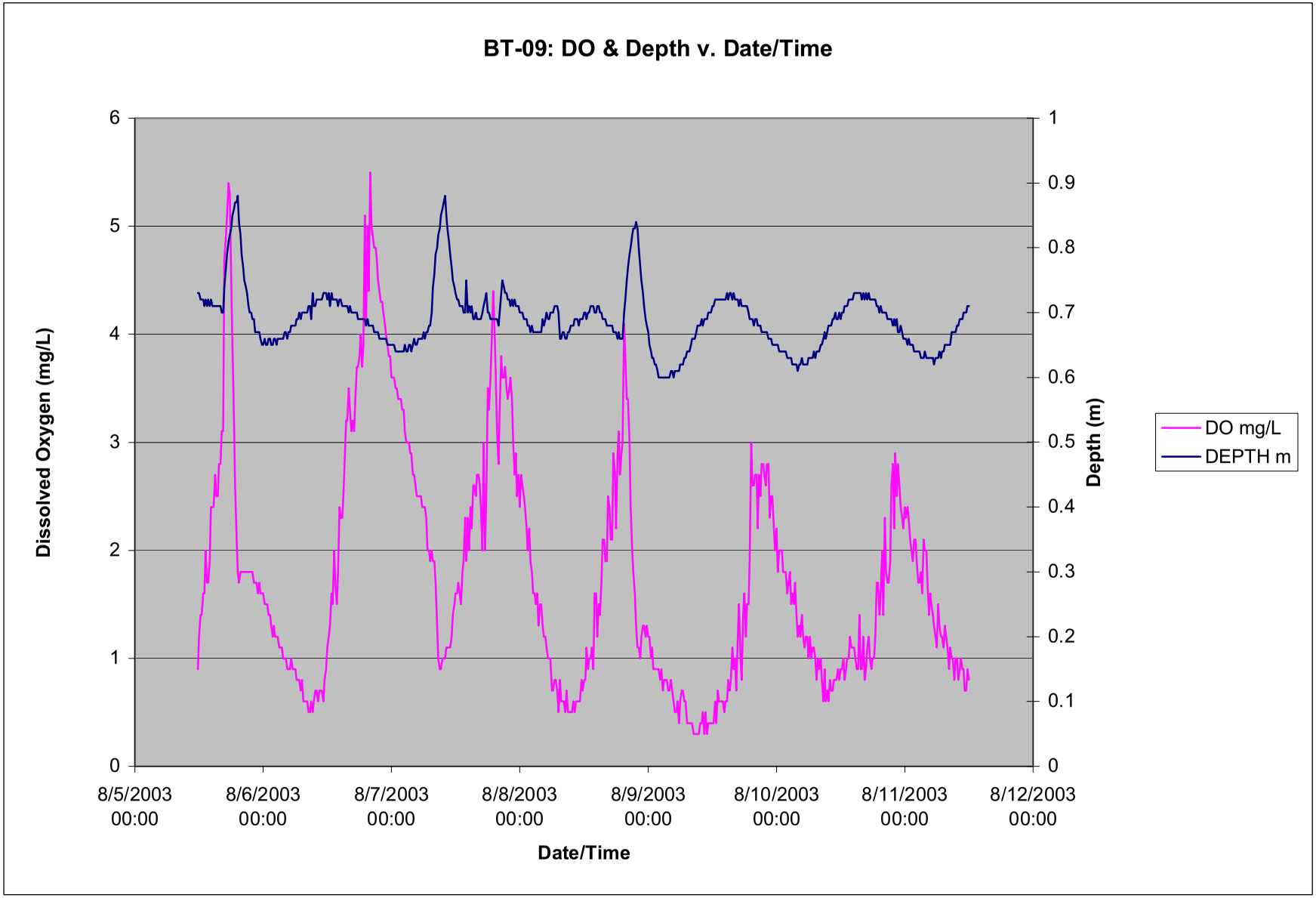
8/6/2003	20:15:00	31.5	7.3	0.371	0.2	70.1	5.2	0.43
8/6/2003	20:30:00	31.4	7.3	0.371	0.2	66.0	4.9	0.43
8/6/2003	20:45:00	31.4	7.3	0.371	0.2	64.2	4.7	0.43
8/6/2003	21:00:00	31.3	7.3	0.371	0.2	60.8	4.5	0.43
8/6/2003	21:15:00	31.2	7.3	0.371	0.2	57.6	4.3	0.42
8/6/2003	21:30:00	31.2	7.3	0.371	0.2	54.4	4.0	0.42
8/6/2003	21:45:00	31.1	7.2	0.371	0.2	51.7	3.8	0.42
8/6/2003	22:00:00	31.1	7.2	0.371	0.2	49.7	3.7	0.42
8/6/2003	22:15:00	31.0	7.2	0.371	0.2	46.1	3.4	0.41
8/6/2003	22:30:00	31.0	7.2	0.371	0.2	43.7	3.2	0.42
8/6/2003	22:45:00	30.9	7.2	0.371	0.2	42.4	3.2	0.41
8/6/2003	23:00:00	30.9	7.2	0.371	0.2	40.2	3.0	0.41
8/6/2003	23:15:00	30.8	7.2	0.371	0.2	37.8	2.8	0.41
8/6/2003	23:30:00	30.8	7.2	0.371	0.2	36.2	2.7	0.40
8/6/2003	23:45:00	30.7	7.2	0.371	0.2	34.4	2.6	0.41
8/7/2003	0:00:00	30.7	7.2	0.371	0.2	32.4	2.4	0.41
8/7/2003	0:15:00	30.6	7.2	0.372	0.2	30.1	2.2	0.40
8/7/2003	0:30:00	30.6	7.2	0.372	0.2	29.0	2.2	0.40
8/7/2003	0:45:00	30.5	7.2	0.372	0.2	27.3	2.0	0.40
8/7/2003	1:00:00	30.5	7.2	0.371	0.2	25.5	1.9	0.40
8/7/2003	1:15:00	30.4	7.2	0.372	0.2	23.3	1.8	0.40
8/7/2003	1:30:00	30.4	7.2	0.372	0.2	21.9	1.6	0.39
8/7/2003	1:45:00	30.4	7.2	0.372	0.2	20.0	1.5	0.40
8/7/2003	2:00:00	30.3	7.2	0.372	0.2	19.5	1.5	0.39
8/7/2003	2:15:00	30.3	7.1	0.372	0.2	18.0	1.4	0.40
8/7/2003	2:30:00	30.2	7.1	0.372	0.2	17.4	1.3	0.40
8/7/2003	2:45:00	30.2	7.1	0.372	0.2	15.9	1.2	0.40
8/7/2003	3:00:00	30.1	7.1	0.372	0.2	14.9	1.1	0.40
8/7/2003	3:15:00	30.1	7.1	0.372	0.2	14.4	1.1	0.40
8/7/2003	3:30:00	30.1	7.1	0.372	0.2	13.3	1.0	0.40
8/7/2003	3:45:00	30.0	7.1	0.372	0.2	12.4	0.9	0.41

8/7/2003	4:00:00	30.0	7.1	0.373	0.2	11.4	0.9	0.41
8/7/2003	4:15:00	29.9	7.1	0.373	0.2	10.4	0.8	0.40
8/7/2003	4:30:00	29.9	7.1	0.373	0.2	10.1	0.8	0.41
8/7/2003	4:45:00	29.8	7.1	0.373	0.2	9.0	0.7	0.40
8/7/2003	5:00:00	29.8	7.1	0.373	0.2	8.6	0.7	0.41
8/7/2003	5:15:00	29.8	7.1	0.373	0.2	7.9	0.6	0.41
8/7/2003	5:30:00	29.7	7.1	0.373	0.2	7.4	0.6	0.42
8/7/2003	5:45:00	29.7	7.1	0.373	0.2	6.5	0.5	0.42
8/7/2003	6:00:00	29.7	7.1	0.373	0.2	5.8	0.4	0.42
8/7/2003	6:15:00	29.6	7.1	0.374	0.2	5.6	0.4	0.43
8/7/2003	6:30:00	29.6	7.1	0.374	0.2	4.9	0.4	0.42
8/7/2003	6:45:00	29.6	7.1	0.375	0.2	4.8	0.4	0.43
8/7/2003	7:00:00	29.5	7.1	0.374	0.2	5.0	0.4	0.43
8/7/2003	7:15:00	29.5	7.1	0.374	0.2	4.8	0.4	0.43
8/7/2003	7:30:00	29.5	7.1	0.374	0.2	4.2	0.3	0.51
8/7/2003	7:45:00	29.5	7.1	0.374	0.2	4.3	0.3	0.56
8/7/2003	8:00:00	29.5	7.1	0.374	0.2	3.0	0.2	0.58
8/7/2003	8:15:00	29.4	7.1	0.373	0.2	3.4	0.3	0.61
8/7/2003	8:30:00	29.4	7.1	0.373	0.2	3.0	0.2	0.63
8/7/2003	8:45:00	29.4	7.1	0.374	0.2	2.1	0.2	0.65
8/7/2003	9:00:00	29.4	7.1	0.373	0.2	2.6	0.2	0.66
8/7/2003	9:15:00	29.4	7.1	0.374	0.2	2.6	0.2	0.67
8/7/2003	9:30:00	29.4	7.1	0.374	0.2	2.9	0.2	0.68
8/7/2003	9:45:00	29.4	7.1	0.374	0.2	3.1	0.2	0.69


BT-09: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
0
1
2
3
4
5
6
28.5
29
29.5
30
30.5
31
31.5
8/5/2003 00:00
8/6/2003 00:00
8/7/2003 00:00
8/8/2003 00:00
8/9/2003 00:00
8/10/2003 00:00
8/11/2003 00:00
8/12/2003 00:00
DO mg/L
Temp øC


BT-09: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
pH
Date/Time
DO mg/L
pH Units
0
1
2
3
4
5
6
6.95
7
7.05
7.1
7.15
7.2
7.25
7.3
7.35
7.4
7.45
8/5/2003 00:00
8/6/2003 00:00
8/7/2003 00:00
8/8/2003 00:00
8/9/2003 00:00
8/10/2003 00:00
8/11/2003 00:00
8/12/2003 00:00


BT-09: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
0
1
2
3
4
5
6
0
50
100
150
200
250
300
350
400
8/5/2003 00:00
8/6/2003 00:00
8/7/2003 00:00
8/8/2003 00:00
8/9/2003 00:00
8/10/2003 00:00
8/11/2003 00:00
8/12/2003 00:00
DO mg/L
SpCond æS/cm


BT-09: DO & Depth v. Date/Time
Dissolved Oxygen (mg/L)
Depth (m)
Date/Time
0
1
2
3
4
5
6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
8/5/2003 00:00
8/6/2003 00:00
8/7/2003 00:00
8/8/2003 00:00
8/9/2003 00:00
8/10/2003 00:00
8/11/2003 00:00
8/12/2003 00:00
DO mg/L
DEPTH m

MiniSonde 4a 40005
Log File Name : BT-09
Setup Date (MMDDYY) : 080403
Setup Time (HHMMSS) : 130022
Starting Date (MMDDYY) : 080403
Starting Time (HHMMSS) : 131500
Stopping Date (MMDDYY) : 081203
Stopping Time (HHMMSS) : 235959
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

* D.O. values below 2.0 mg/l are not in manufacturers tolerances

Date MMDDYY	Time HHMMSS	Temp øC	SpCond æS/cm	Sal ppt	pH Units	DO mg/l	DO% Sat	Dep10 meters
8/5/2003	11:45	29.0	301	0.2	7.0	0.9	11.6	0.73
8/5/2003	12:00	29.1	299	0.1	7.0	1.2	15.9	0.73
8/5/2003	12:15	29.3	297	0.1	7.0	1.4	18.4	0.72
8/5/2003	12:30	29.3	298	0.1	7.0	1.4	18.6	0.72
8/5/2003	12:45	29.5	298	0.1	7.0	1.6	20.7	0.72
8/5/2003	13:00	29.4	297	0.1	7.0	1.6	21.0	0.71
8/5/2003	13:15	29.6	298	0.1	7.0	2.0	26.4	0.72
8/5/2003	13:30	29.6	298	0.1	7.0	1.7	22.2	0.71
8/5/2003	13:45	29.5	298	0.1	7.0	1.7	22.1	0.72
8/5/2003	14:00	29.6	298	0.1	7.0	1.9	25.0	0.71
8/5/2003	14:15	29.8	301	0.2	7.1	2.4	31.9	0.72
8/5/2003	14:30	29.9	301	0.2	7.1	2.4	31.8	0.71
8/5/2003	14:45	29.8	305	0.2	7.1	2.4	31.7	0.71

8/5/2003	15:00	30.0	306	0.2	7.1	2.7	35.3	0.71
8/5/2003	15:15	30.0	304	0.2	7.1	2.5	33.0	0.71
8/5/2003	15:30	29.9	302	0.2	7.1	2.5	33.3	0.71
8/5/2003	15:45	30.1	307	0.2	7.1	2.8	37.6	0.71
8/5/2003	16:00	30.0	306	0.2	7.1	2.8	36.7	0.71
8/5/2003	16:15	30.2	309	0.2	7.1	3.1	40.5	0.70
8/5/2003	16:30	30.2	307	0.2	7.1	3.1	40.7	0.70
8/5/2003	16:45	31.1	312	0.2	7.2	4.7	63.2	0.74
8/5/2003	17:00	31.0	315	0.2	7.2	4.9	65.5	0.77
8/5/2003	17:15	31.1	327	0.2	7.2	5.1	69.4	0.79
8/5/2003	17:30	31.3	337	0.2	7.3	5.4	73.7	0.81
8/5/2003	17:45	31.3	348	0.2	7.3	5.3	71.6	0.82
8/5/2003	18:00	31.3	357	0.2	7.3	4.5	60.8	0.83
8/5/2003	18:15	31.3	352	0.2	7.2	3.9	52.1	0.85
8/5/2003	18:30	30.9	331	0.2	7.2	3.2	42.7	0.86
8/5/2003	18:45	30.5	312	0.2	7.1	2.6	34.2	0.87
8/5/2003	19:00	30.2	299	0.1	7.1	2.1	28.0	0.87
8/5/2003	19:15	30.1	289	0.1	7.0	1.8	24.4	0.88
8/5/2003	19:30	30.0	285	0.1	7.0	1.7	23.0	0.84
8/5/2003	19:45	30.0	283	0.1	7.0	1.8	23.3	0.82
8/5/2003	20:00	30.0	282	0.1	7.0	1.8	23.3	0.79
8/5/2003	20:15	30.0	281	0.1	7.0	1.8	23.4	0.77
8/5/2003	20:30	30.0	281	0.1	7.0	1.8	23.2	0.75
8/5/2003	20:45	30.0	281	0.1	7.0	1.8	23.5	0.74
8/5/2003	21:00	30.0	281	0.1	7.0	1.8	23.6	0.73
8/5/2003	21:15	30.0	281	0.1	7.0	1.8	24.0	0.71
8/5/2003	21:30	30.0	281	0.1	7.0	1.8	24.2	0.70
8/5/2003	21:45	30.0	281	0.1	7.0	1.8	23.5	0.70
8/5/2003	22:00	29.9	281	0.1	7.0	1.8	23.8	0.69
8/5/2003	22:15	29.9	281	0.1	7.0	1.7	23.1	0.69
8/5/2003	22:30	29.9	281	0.1	7.0	1.7	22.9	0.67

8/5/2003	22:45	29.9	281	0.1	7.0	1.7	22.9	0.67
8/5/2003	23:00	29.9	282	0.1	7.0	1.6	21.6	0.67
8/5/2003	23:15	29.9	282	0.1	7.0	1.7	22.0	0.67
8/5/2003	23:30	29.8	283	0.1	7.0	1.6	21.0	0.66
8/5/2003	23:45	29.8	283	0.1	7.0	1.6	21.4	0.65
8/6/2003	0:00	29.8	284	0.1	7.0	1.6	20.7	0.65
8/6/2003	0:15	29.8	284	0.1	7.0	1.5	20.4	0.66
8/6/2003	0:30	29.8	283	0.1	7.0	1.5	19.6	0.65
8/6/2003	0:45	29.7	284	0.1	7.0	1.5	19.5	0.65
8/6/2003	1:00	29.7	284	0.1	7.0	1.4	17.8	0.66
8/6/2003	1:15	29.7	286	0.1	7.0	1.4	18.0	0.66
8/6/2003	1:30	29.6	287	0.1	7.0	1.3	17.0	0.65
8/6/2003	1:45	29.6	287	0.1	7.0	1.2	16.3	0.65
8/6/2003	2:00	29.6	287	0.1	7.0	1.3	16.5	0.66
8/6/2003	2:15	29.6	287	0.1	7.0	1.2	16.0	0.66
8/6/2003	2:30	29.5	289	0.1	7.0	1.2	15.8	0.65
8/6/2003	2:45	29.5	287	0.1	7.0	1.2	15.8	0.66
8/6/2003	3:00	29.5	288	0.1	7.0	1.1	15.0	0.66
8/6/2003	3:15	29.5	289	0.1	7.0	1.1	14.7	0.66
8/6/2003	3:30	29.4	288	0.1	7.0	1.1	14.6	0.66
8/6/2003	3:45	29.4	288	0.1	7.0	1.0	13.5	0.66
8/6/2003	4:00	29.4	289	0.1	7.0	1.0	13.3	0.67
8/6/2003	4:15	29.4	288	0.1	7.0	1.0	13.1	0.67
8/6/2003	4:30	29.4	289	0.1	7.0	0.9	11.5	0.66
8/6/2003	4:45	29.4	289	0.1	7.0	0.9	12.0	0.67
8/6/2003	5:00	29.3	288	0.1	7.0	0.9	12.3	0.67
8/6/2003	5:15	29.3	289	0.1	7.0	1.0	12.9	0.68
8/6/2003	5:30	29.3	289	0.1	7.0	0.9	11.7	0.68
8/6/2003	5:45	29.3	289	0.1	7.0	0.9	11.6	0.68
8/6/2003	6:00	29.3	288	0.1	7.0	0.9	11.2	0.68
8/6/2003	6:15	29.3	289	0.1	7.0	0.8	10.8	0.69

8/6/2003	6:30	29.3	289	0.1	7.0	0.8	10.9	0.69
8/6/2003	6:45	29.2	289	0.1	7.0	0.8	10.2	0.70
8/6/2003	7:00	29.2	290	0.1	7.0	0.7	9.0	0.69
8/6/2003	7:15	29.2	289	0.1	7.0	0.8	9.8	0.70
8/6/2003	7:30	29.2	290	0.1	7.0	0.6	8.4	0.70
8/6/2003	7:45	29.2	292	0.1	7.0	0.6	8.1	0.70
8/6/2003	8:00	29.1	292	0.1	7.0	0.6	8.2	0.70
8/6/2003	8:15	29.2	291	0.1	7.0	0.6	7.7	0.70
8/6/2003	8:30	29.1	292	0.1	7.0	0.5	7.0	0.71
8/6/2003	8:45	29.1	291	0.1	7.0	0.5	6.6	0.71
8/6/2003	9:00	29.2	290	0.1	7.0	0.6	7.3	0.69
8/6/2003	9:15	29.2	291	0.1	7.0	0.5	6.7	0.73
8/6/2003	9:30	29.2	292	0.1	7.0	0.6	7.6	0.71
8/6/2003	9:45	29.2	297	0.1	7.0	0.7	9.3	0.71
8/6/2003	10:00	29.2	294	0.1	7.0	0.7	9.0	0.72
8/6/2003	10:15	29.2	292	0.1	7.0	0.6	7.7	0.72
8/6/2003	10:30	29.3	294	0.1	7.0	0.7	9.7	0.72
8/6/2003	10:45	29.3	295	0.1	7.0	0.7	8.7	0.72
8/6/2003	11:00	29.3	293	0.1	7.0	0.7	8.7	0.72
8/6/2003	11:15	29.3	292	0.1	7.0	0.6	7.7	0.73
8/6/2003	11:30	29.4	293	0.1	7.0	0.8	9.8	0.73
8/6/2003	11:45	29.4	295	0.1	7.0	0.9	11.7	0.73
8/6/2003	12:00	29.5	297	0.1	7.0	1.1	14.8	0.72
8/6/2003	12:15	29.5	296	0.1	7.0	1.2	16.0	0.73
8/6/2003	12:30	29.6	293	0.1	7.0	1.3	17.4	0.71
8/6/2003	12:45	29.6	292	0.1	7.0	1.6	20.8	0.73
8/6/2003	13:00	29.7	293	0.1	7.0	1.5	19.4	0.72
8/6/2003	13:15	29.8	291	0.1	7.0	2.0	26.2	0.72
8/6/2003	13:30	29.8	291	0.1	7.0	1.7	22.1	0.72
8/6/2003	13:45	29.8	292	0.1	7.0	1.5	20.0	0.72
8/6/2003	14:00	29.9	292	0.1	7.0	1.8	24.2	0.71

8/6/2003	14:15	30.0	289	0.1	7.0	2.4	31.2	0.72
8/6/2003	14:30	30.0	290	0.1	7.0	2.3	31.0	0.72
8/6/2003	14:45	30.0	290	0.1	7.0	2.3	30.8	0.71
8/6/2003	15:00	30.2	291	0.1	7.1	2.5	33.7	0.71
8/6/2003	15:15	30.2	290	0.1	7.1	2.8	36.6	0.71
8/6/2003	15:30	30.4	291	0.1	7.1	3.2	42.7	0.71
8/6/2003	15:45	30.3	290	0.1	7.1	3.2	42.3	0.71
8/6/2003	16:00	30.5	289	0.1	7.1	3.5	46.5	0.70
8/6/2003	16:15	30.4	290	0.1	7.1	3.3	44.2	0.71
8/6/2003	16:30	30.4	289	0.1	7.1	3.1	41.4	0.70
8/6/2003	16:45	30.5	290	0.1	7.1	3.2	43.3	0.70
8/6/2003	17:00	30.5	290	0.1	7.1	3.1	40.7	0.70
8/6/2003	17:15	30.6	290	0.1	7.1	3.4	45.1	0.70
8/6/2003	17:30	30.7	292	0.1	7.1	3.7	49.5	0.70
8/6/2003	17:45	30.7	291	0.1	7.1	3.7	49.7	0.69
8/6/2003	18:00	30.7	291	0.1	7.1	3.8	51.5	0.69
8/6/2003	18:15	30.8	295	0.1	7.1	4.0	53.6	0.69
8/6/2003	18:30	30.7	292	0.1	7.1	3.7	49.3	0.69
8/6/2003	18:45	30.8	292	0.1	7.1	3.9	52.9	0.69
8/6/2003	19:00	31.0	292	0.1	7.2	5.1	68.2	0.69
8/6/2003	19:15	30.8	293	0.1	7.1	4.1	55.6	0.68
8/6/2003	19:30	30.9	294	0.1	7.2	5.0	66.6	0.69
8/6/2003	19:45	30.8	294	0.1	7.2	4.4	59.7	0.68
8/6/2003	20:00	30.9	295	0.1	7.2	5.5	73.6	0.68
8/6/2003	20:15	30.8	296	0.1	7.2	5.0	67.3	0.68
8/6/2003	20:30	30.8	297	0.1	7.2	4.9	65.3	0.68
8/6/2003	20:45	30.8	298	0.1	7.2	4.8	64.2	0.67
8/6/2003	21:00	30.7	298	0.1	7.2	4.8	63.8	0.67
8/6/2003	21:15	30.7	300	0.2	7.2	4.7	62.3	0.67
8/6/2003	21:30	30.6	300	0.2	7.2	4.5	60.3	0.67
8/6/2003	21:45	30.6	300	0.2	7.2	4.4	58.6	0.66

8/6/2003	22:00	30.6	300	0.2	7.2	4.3	56.8	0.66
8/6/2003	22:15	30.6	301	0.2	7.2	4.3	57.4	0.66
8/6/2003	22:30	30.5	300	0.2	7.2	4.2	55.8	0.66
8/6/2003	22:45	30.5	301	0.2	7.2	4.1	54.3	0.66
8/6/2003	23:00	30.5	302	0.2	7.2	4.0	53.7	0.66
8/6/2003	23:15	30.4	302	0.2	7.2	3.9	51.8	0.65
8/6/2003	23:30	30.4	303	0.2	7.2	3.8	51.2	0.65
8/6/2003	23:45	30.3	303	0.2	7.2	3.8	50.0	0.65
8/7/2003	0:00	30.3	303	0.2	7.2	3.6	48.1	0.65
8/7/2003	0:15	30.3	307	0.2	7.2	3.6	48.1	0.65
8/7/2003	0:30	30.2	306	0.2	7.2	3.6	47.2	0.65
8/7/2003	0:45	30.2	306	0.2	7.2	3.5	46.7	0.64
8/7/2003	1:00	30.2	308	0.2	7.2	3.5	46.9	0.64
8/7/2003	1:15	30.2	310	0.2	7.2	3.4	45.7	0.64
8/7/2003	1:30	30.2	311	0.2	7.2	3.4	45.5	0.64
8/7/2003	1:45	30.2	310	0.2	7.2	3.4	44.8	0.64
8/7/2003	2:00	30.1	311	0.2	7.2	3.3	43.6	0.64
8/7/2003	2:15	30.1	311	0.2	7.2	3.3	43.2	0.64
8/7/2003	2:30	30.1	311	0.2	7.2	3.1	40.8	0.65
8/7/2003	2:45	30.1	312	0.2	7.2	3.0	40.1	0.64
8/7/2003	3:00	30.0	311	0.2	7.2	3.0	39.4	0.64
8/7/2003	3:15	30.0	311	0.2	7.2	3.0	39.6	0.65
8/7/2003	3:30	30.0	313	0.2	7.2	2.9	38.3	0.65
8/7/2003	3:45	29.9	311	0.2	7.2	2.9	38.2	0.64
8/7/2003	4:00	29.9	314	0.2	7.2	2.7	35.9	0.65
8/7/2003	4:15	29.9	315	0.2	7.1	2.7	35.2	0.66
8/7/2003	4:30	29.8	315	0.2	7.1	2.6	34.2	0.65
8/7/2003	4:45	29.8	318	0.2	7.1	2.5	33.3	0.65
8/7/2003	5:00	29.8	315	0.2	7.1	2.5	33.1	0.66
8/7/2003	5:15	29.8	316	0.2	7.1	2.5	32.8	0.66
8/7/2003	5:30	29.8	315	0.2	7.1	2.5	32.4	0.66

8/7/2003	5:45	29.7	314	0.2	7.1	2.4	31.9	0.66
8/7/2003	6:00	29.7	312	0.2	7.1	2.4	31.1	0.67
8/7/2003	6:15	29.7	312	0.2	7.1	2.4	30.9	0.66
8/7/2003	6:30	29.7	313	0.2	7.1	2.3	30.2	0.67
8/7/2003	6:45	29.7	311	0.2	7.1	2.0	25.8	0.67
8/7/2003	7:00	29.7	311	0.2	7.1	2.0	26.7	0.68
8/7/2003	7:15	29.7	312	0.2	7.1	1.9	25.3	0.68
8/7/2003	7:30	29.6	313	0.2	7.1	2.0	25.7	0.70
8/7/2003	7:45	29.6	318	0.2	7.1	1.9	25.1	0.74
8/7/2003	8:00	29.5	332	0.2	7.2	1.9	24.9	0.76
8/7/2003	8:15	29.6	348	0.2	7.2	1.7	22.2	0.79
8/7/2003	8:30	29.5	359	0.2	7.2	1.3	17.0	0.80
8/7/2003	8:45	29.6	364	0.2	7.2	1.0	13.0	0.82
8/7/2003	9:00	29.6	367	0.2	7.2	0.9	11.5	0.83
8/7/2003	9:15	29.5	356	0.2	7.2	0.9	12.0	0.85
8/7/2003	9:30	29.4	334	0.2	7.1	1.0	12.6	0.86
8/7/2003	9:45	29.4	315	0.2	7.1	1.0	13.2	0.87
8/7/2003	10:00	29.4	303	0.2	7.1	1.0	13.0	0.88
8/7/2003	10:15	29.4	297	0.1	7.0	1.1	14.0	0.85
8/7/2003	10:30	29.4	294	0.1	7.0	1.1	14.6	0.83
8/7/2003	10:45	29.5	292	0.1	7.0	1.1	15.0	0.81
8/7/2003	11:00	29.5	291	0.1	7.0	1.1	14.6	0.79
8/7/2003	11:15	29.6	290	0.1	7.0	1.2	16.0	0.77
8/7/2003	11:30	29.7	288	0.1	7.0	1.4	18.7	0.75
8/7/2003	11:45	29.7	288	0.1	7.0	1.5	19.3	0.74
8/7/2003	12:00	29.8	287	0.1	7.0	1.6	20.8	0.73
8/7/2003	12:15	29.8	286	0.1	7.0	1.6	20.9	0.72
8/7/2003	12:30	29.9	287	0.1	7.0	1.7	22.0	0.72
8/7/2003	12:45	29.9	286	0.1	7.0	1.6	20.9	0.71
8/7/2003	13:00	29.9	286	0.1	7.0	1.5	20.0	0.71
8/7/2003	13:15	30.0	286	0.1	7.0	1.8	24.2	0.71

8/7/2003	13:30	30.1	288	0.1	7.0	1.9	25.6	0.70
8/7/2003	13:45	30.2	288	0.1	7.0	2.3	31.0	0.70
8/7/2003	14:00	30.1	287	0.1	7.0	1.9	25.0	0.75
8/7/2003	14:15	30.2	288	0.1	7.1	2.3	30.2	0.70
8/7/2003	14:30	30.1	288	0.1	7.0	2.0	26.3	0.71
8/7/2003	14:45	30.2	289	0.1	7.1	2.4	31.3	0.70
8/7/2003	15:00	30.2	290	0.1	7.1	2.2	29.2	0.71
8/7/2003	15:15	30.2	290	0.1	7.1	2.6	35.1	0.69
8/7/2003	15:30	30.3	289	0.1	7.1	2.6	34.4	0.69
8/7/2003	15:45	30.4	288	0.1	7.1	2.5	33.2	0.70
8/7/2003	16:00	30.4	288	0.1	7.1	2.7	36.5	0.69
8/7/2003	16:15	30.4	287	0.1	7.1	2.7	35.3	0.69
8/7/2003	16:30	30.5	287	0.1	7.1	2.6	34.7	0.69
8/7/2003	16:45	30.4	288	0.1	7.1	2.4	32.5	0.69
8/7/2003	17:00	30.4	288	0.1	7.1	2.0	26.8	0.70
8/7/2003	17:15	30.6	288	0.1	7.1	3.0	39.7	0.71
8/7/2003	17:30	30.6	287	0.1	7.1	2.0	27.2	0.72
8/7/2003	17:45	30.5	287	0.1	7.1	2.5	33.0	0.73
8/7/2003	18:00	30.6	287	0.1	7.1	3.5	46.5	0.70
8/7/2003	18:15	30.6	286	0.1	7.1	3.3	43.9	0.70
8/7/2003	18:30	30.7	287	0.1	7.1	3.6	48.8	0.69
8/7/2003	18:45	30.6	290	0.1	7.1	3.9	51.6	0.69
8/7/2003	19:00	30.6	287	0.1	7.1	4.4	58.3	0.69
8/7/2003	19:15	30.6	288	0.1	7.1	4.1	55.0	0.69
8/7/2003	19:30	30.6	288	0.1	7.1	3.6	48.0	0.69
8/7/2003	19:45	30.6	288	0.1	7.1	3.1	41.0	0.69
8/7/2003	20:00	30.6	287	0.1	7.1	2.8	36.9	0.68
8/7/2003	20:15	30.5	286	0.1	7.1	3.3	44.5	0.70
8/7/2003	20:30	30.4	283	0.1	7.1	3.8	50.3	0.73
8/7/2003	20:45	30.3	278	0.1	7.1	3.6	47.3	0.75
8/7/2003	21:00	30.3	275	0.1	7.1	3.6	47.5	0.74

8/7/2003	21:15	30.3	279	0.1	7.1	3.7	49.6	0.73
8/7/2003	21:30	30.3	279	0.1	7.1	3.5	47.0	0.73
8/7/2003	21:45	30.3	279	0.1	7.2	3.4	44.6	0.72
8/7/2003	22:00	30.3	276	0.1	7.2	3.5	47.1	0.72
8/7/2003	22:15	30.2	269	0.1	7.2	3.6	47.4	0.71
8/7/2003	22:30	30.2	268	0.1	7.1	3.4	44.5	0.72
8/7/2003	22:45	30.1	268	0.1	7.1	3.0	39.9	0.71
8/7/2003	23:00	30.1	270	0.1	7.1	2.7	35.2	0.72
8/7/2003	23:15	30.0	271	0.1	7.1	2.9	37.8	0.71
8/7/2003	23:30	30.0	274	0.1	7.1	2.5	32.5	0.71
8/7/2003	23:45	30.0	276	0.1	7.1	2.7	35.8	0.71
8/8/2003	0:00	30.0	277	0.1	7.1	2.4	31.4	0.70
8/8/2003	0:15	30.0	279	0.1	7.1	2.7	35.9	0.70
8/8/2003	0:30	29.9	281	0.1	7.1	2.6	34.4	0.70
8/8/2003	0:45	29.9	282	0.1	7.1	2.5	33.4	0.69
8/8/2003	1:00	29.9	283	0.1	7.1	2.4	32.0	0.69
8/8/2003	1:15	29.8	284	0.1	7.1	2.2	29.1	0.69
8/8/2003	1:30	29.8	284	0.1	7.1	2.0	26.1	0.68
8/8/2003	1:45	29.8	285	0.1	7.1	2.2	28.5	0.68
8/8/2003	2:00	29.7	285	0.1	7.1	1.9	25.6	0.67
8/8/2003	2:15	29.7	286	0.1	7.1	1.8	23.7	0.68
8/8/2003	2:30	29.6	287	0.1	7.1	1.6	21.3	0.67
8/8/2003	2:45	29.6	288	0.1	7.1	1.6	20.7	0.67
8/8/2003	3:00	29.6	289	0.1	7.1	1.5	19.7	0.67
8/8/2003	3:15	29.5	291	0.1	7.1	1.6	21.4	0.67
8/8/2003	3:30	29.5	293	0.1	7.1	1.3	17.2	0.67
8/8/2003	3:45	29.4	294	0.1	7.1	1.5	19.9	0.67
8/8/2003	4:00	29.4	294	0.1	7.1	1.5	19.9	0.67
8/8/2003	4:15	29.4	295	0.1	7.1	1.3	17.5	0.69
8/8/2003	4:30	29.4	296	0.1	7.1	1.2	15.8	0.68
8/8/2003	4:45	29.3	297	0.1	7.1	1.2	15.3	0.69

8/8/2003	5:00	29.3	298	0.1	7.1	1.1	14.2	0.70
8/8/2003	5:15	29.3	298	0.1	7.1	1.0	12.4	0.69
8/8/2003	5:30	29.2	302	0.2	7.1	1.0	13.6	0.69
8/8/2003	5:45	29.1	302	0.2	7.1	1.0	12.6	0.70
8/8/2003	6:00	29.2	303	0.2	7.1	0.7	9.4	0.70
8/8/2003	6:15	29.1	304	0.2	7.1	0.7	9.5	0.70
8/8/2003	6:30	29.1	305	0.2	7.1	0.8	10.2	0.71
8/8/2003	6:45	29.0	305	0.2	7.1	0.8	10.6	0.71
8/8/2003	7:00	29.0	305	0.2	7.1	0.7	9.0	0.71
8/8/2003	7:15	29.0	306	0.2	7.1	0.5	7.0	0.70
8/8/2003	7:30	28.9	307	0.2	7.1	0.8	9.7	0.66
8/8/2003	7:45	28.9	308	0.2	7.1	0.6	8.0	0.66
8/8/2003	8:00	28.9	309	0.2	7.1	0.6	7.8	0.67
8/8/2003	8:15	28.9	311	0.2	7.1	0.6	7.5	0.67
8/8/2003	8:30	28.9	310	0.2	7.1	0.5	6.6	0.66
8/8/2003	8:45	28.9	311	0.2	7.1	0.7	8.5	0.66
8/8/2003	9:00	28.9	312	0.2	7.1	0.5	6.6	0.67
8/8/2003	9:15	28.9	312	0.2	7.1	0.5	6.7	0.67
8/8/2003	9:30	28.9	311	0.2	7.1	0.5	6.8	0.68
8/8/2003	9:45	28.9	311	0.2	7.1	0.5	6.3	0.68
8/8/2003	10:00	29.0	312	0.2	7.1	0.6	7.6	0.68
8/8/2003	10:15	29.0	310	0.2	7.1	0.5	6.8	0.69
8/8/2003	10:30	29.0	311	0.2	7.1	0.6	8.4	0.69
8/8/2003	10:45	29.0	310	0.2	7.1	0.6	7.3	0.69
8/8/2003	11:00	29.1	311	0.2	7.1	0.6	8.2	0.68
8/8/2003	11:15	29.1	311	0.2	7.1	0.6	8.4	0.69
8/8/2003	11:30	29.1	311	0.2	7.1	0.8	9.8	0.69
8/8/2003	11:45	29.3	314	0.2	7.2	0.7	9.6	0.69
8/8/2003	12:00	29.3	312	0.2	7.1	0.8	10.3	0.70
8/8/2003	12:15	29.4	314	0.2	7.2	0.8	11.1	0.70
8/8/2003	12:30	29.4	316	0.2	7.1	1.1	14.1	0.69

8/8/2003	12:45	29.4	315	0.2	7.2	0.9	12.1	0.70
8/8/2003	13:00	29.5	317	0.2	7.2	1.0	13.3	0.70
8/8/2003	13:15	29.5	314	0.2	7.2	1.0	13.6	0.71
8/8/2003	13:30	29.5	314	0.2	7.1	1.1	13.7	0.71
8/8/2003	13:45	29.5	316	0.2	7.2	0.9	12.4	0.71
8/8/2003	14:00	29.8	319	0.2	7.2	1.6	21.1	0.70
8/8/2003	14:15	29.8	319	0.2	7.2	1.6	21.0	0.70
8/8/2003	14:30	29.7	318	0.2	7.2	1.2	15.2	0.71
8/8/2003	14:45	29.8	321	0.2	7.2	1.5	19.4	0.71
8/8/2003	15:00	29.9	320	0.2	7.2	1.4	18.5	0.70
8/8/2003	15:15	29.9	322	0.2	7.2	1.7	22.4	0.70
8/8/2003	15:30	30.1	327	0.2	7.2	2.1	27.9	0.69
8/8/2003	15:45	30.1	327	0.2	7.2	2.1	27.2	0.69
8/8/2003	16:00	30.2	330	0.2	7.2	1.9	25.7	0.69
8/8/2003	16:15	30.3	331	0.2	7.2	1.9	25.1	0.68
8/8/2003	16:30	30.3	333	0.2	7.3	2.5	32.8	0.68
8/8/2003	16:45	30.5	334	0.2	7.3	2.4	31.8	0.68
8/8/2003	17:00	30.3	331	0.2	7.2	2.1	27.8	0.68
8/8/2003	17:15	30.4	333	0.2	7.2	2.1	27.5	0.68
8/8/2003	17:30	30.5	336	0.2	7.3	2.9	38.2	0.67
8/8/2003	17:45	30.6	334	0.2	7.3	2.7	35.8	0.67
8/8/2003	18:00	30.5	335	0.2	7.3	2.2	30.0	0.67
8/8/2003	18:15	30.7	336	0.2	7.3	2.9	39.2	0.66
8/8/2003	18:30	30.7	338	0.2	7.3	3.1	42.1	0.67
8/8/2003	18:45	30.5	336	0.2	7.3	2.7	35.4	0.66
8/8/2003	19:00	30.6	337	0.2	7.3	2.9	39.1	0.66
8/8/2003	19:15	30.6	336	0.2	7.3	3.0	40.3	0.66
8/8/2003	19:30	30.7	333	0.2	7.4	4.1	55.3	0.70
8/8/2003	19:45	30.7	331	0.2	7.4	3.8	50.9	0.72
8/8/2003	20:00	30.7	330	0.2	7.4	3.4	45.3	0.75
8/8/2003	20:15	30.7	337	0.2	7.3	3.4	46.1	0.77

8/8/2003	20:30	30.8	344	0.2	7.3	3.0	40.2	0.79
8/8/2003	20:45	30.7	348	0.2	7.3	2.4	31.6	0.80
8/8/2003	21:00	30.5	338	0.2	7.2	2.0	26.6	0.82
8/8/2003	21:15	30.2	318	0.2	7.2	1.8	24.1	0.83
8/8/2003	21:30	30.0	305	0.2	7.1	1.6	20.8	0.83
8/8/2003	21:45	29.8	295	0.1	7.1	1.3	17.4	0.84
8/8/2003	22:00	29.8	289	0.1	7.1	1.1	14.9	0.83
8/8/2003	22:15	29.8	286	0.1	7.1	1.1	14.1	0.80
8/8/2003	22:30	29.8	284	0.1	7.1	1.0	13.4	0.77
8/8/2003	22:45	29.8	283	0.1	7.0	1.2	15.9	0.75
8/8/2003	23:00	29.8	283	0.1	7.0	1.3	17.4	0.73
8/8/2003	23:15	29.7	282	0.1	7.0	1.3	16.6	0.71
8/8/2003	23:30	29.7	282	0.1	7.0	1.2	15.9	0.69
8/8/2003	23:45	29.7	282	0.1	7.0	1.3	16.9	0.68
8/9/2003	0:00	29.7	281	0.1	7.0	1.2	16.0	0.67
8/9/2003	0:15	29.7	281	0.1	7.0	1.2	15.6	0.65
8/9/2003	0:30	29.6	281	0.1	7.0	1.0	13.5	0.64
8/9/2003	0:45	29.6	281	0.1	7.0	1.1	14.4	0.63
8/9/2003	1:00	29.6	281	0.1	7.0	0.9	12.4	0.63
8/9/2003	1:15	29.5	281	0.1	7.0	0.9	11.6	0.62
8/9/2003	1:30	29.5	281	0.1	7.0	0.9	11.8	0.62
8/9/2003	1:45	29.5	281	0.1	7.0	0.9	12.4	0.61
8/9/2003	2:00	29.4	282	0.1	7.0	0.9	11.7	0.60
8/9/2003	2:15	29.4	281	0.1	7.0	0.8	11.1	0.60
8/9/2003	2:30	29.4	282	0.1	7.0	0.9	11.7	0.60
8/9/2003	2:45	29.3	281	0.1	7.0	0.7	9.5	0.60
8/9/2003	3:00	29.3	282	0.1	7.0	0.8	10.0	0.60
8/9/2003	3:15	29.2	283	0.1	7.0	0.8	10.3	0.60
8/9/2003	3:30	29.2	282	0.1	7.0	0.8	10.5	0.60
8/9/2003	3:45	29.2	283	0.1	7.0	0.7	9.4	0.60
8/9/2003	4:00	29.2	282	0.1	7.0	0.7	9.0	0.60

8/9/2003	4:15	29.1	283	0.1	7.0	0.8	10.0	0.61
8/9/2003	4:30	29.1	283	0.1	7.0	0.7	9.0	0.61
8/9/2003	4:45	29.1	283	0.1	7.0	0.6	7.8	0.60
8/9/2003	5:00	29.0	283	0.1	7.0	0.5	6.7	0.61
8/9/2003	5:15	29.0	283	0.1	7.0	0.5	6.9	0.61
8/9/2003	5:30	29.0	284	0.1	7.0	0.6	7.4	0.61
8/9/2003	5:45	28.9	284	0.1	7.0	0.4	5.7	0.61
8/9/2003	6:00	28.9	283	0.1	7.0	0.6	8.0	0.62
8/9/2003	6:15	28.8	283	0.1	7.0	0.7	9.0	0.62
8/9/2003	6:30	28.8	284	0.1	7.0	0.7	8.4	0.62
8/9/2003	6:45	28.8	283	0.1	7.0	0.6	7.3	0.63
8/9/2003	7:00	28.8	284	0.1	7.0	0.6	7.3	0.63
8/9/2003	7:15	28.8	285	0.1	7.0	0.4	5.6	0.64
8/9/2003	7:30	28.8	286	0.1	7.0	0.4	5.2	0.64
8/9/2003	7:45	28.7	286	0.1	7.0	0.4	5.1	0.64
8/9/2003	8:00	28.7	286	0.1	7.0	0.4	4.9	0.65
8/9/2003	8:15	28.7	286	0.1	7.0	0.4	5.2	0.66
8/9/2003	8:30	28.7	286	0.1	7.0	0.3	3.9	0.66
8/9/2003	8:45	28.7	287	0.1	7.0	0.3	3.8	0.66
8/9/2003	9:00	28.7	286	0.1	7.0	0.3	4.0	0.67
8/9/2003	9:15	28.7	286	0.1	7.0	0.3	3.8	0.68
8/9/2003	9:30	28.7	288	0.1	7.0	0.3	3.8	0.68
8/9/2003	9:45	28.7	287	0.1	7.0	0.4	4.5	0.68
8/9/2003	10:00	28.7	286	0.1	7.0	0.4	5.0	0.69
8/9/2003	10:15	28.8	287	0.1	7.0	0.5	6.1	0.68
8/9/2003	10:30	28.8	286	0.1	7.0	0.3	4.1	0.69
8/9/2003	10:45	28.8	287	0.1	7.0	0.5	6.2	0.69
8/9/2003	11:00	28.9	288	0.1	7.0	0.3	4.0	0.69
8/9/2003	11:15	28.9	287	0.1	7.0	0.4	4.6	0.70
8/9/2003	11:30	28.9	288	0.1	7.0	0.4	4.6	0.70
8/9/2003	11:45	28.9	288	0.1	7.1	0.4	5.1	0.70

8/9/2003	12:00	29.0	290	0.1	7.1	0.4	5.1	0.71
8/9/2003	12:15	29.0	288	0.1	7.0	0.4	4.8	0.71
8/9/2003	12:30	29.1	288	0.1	7.1	0.6	7.3	0.72
8/9/2003	12:45	29.1	289	0.1	7.1	0.4	5.1	0.72
8/9/2003	13:00	29.2	289	0.1	7.1	0.7	9.2	0.72
8/9/2003	13:15	29.2	289	0.1	7.1	0.6	7.2	0.72
8/9/2003	13:30	29.2	289	0.1	7.1	0.6	7.3	0.72
8/9/2003	13:45	29.2	289	0.1	7.1	0.6	7.9	0.72
8/9/2003	14:00	29.3	292	0.1	7.1	0.6	7.4	0.72
8/9/2003	14:15	29.4	290	0.1	7.1	0.5	6.0	0.72
8/9/2003	14:30	29.3	290	0.1	7.1	0.6	7.5	0.72
8/9/2003	14:45	29.4	289	0.1	7.1	0.6	8.2	0.73
8/9/2003	15:00	29.5	290	0.1	7.1	0.8	10.3	0.72
8/9/2003	15:15	29.5	289	0.1	7.1	0.7	8.9	0.73
8/9/2003	15:30	29.6	290	0.1	7.1	0.8	10.1	0.73
8/9/2003	15:45	29.6	290	0.1	7.1	1.1	13.9	0.72
8/9/2003	16:00	29.6	290	0.1	7.1	0.9	11.6	0.73
8/9/2003	16:15	29.7	292	0.1	7.1	1.0	12.9	0.72
8/9/2003	16:30	29.6	291	0.1	7.1	0.7	8.6	0.72
8/9/2003	16:45	29.7	292	0.1	7.1	1.2	15.2	0.72
8/9/2003	17:00	29.9	294	0.1	7.1	1.5	19.4	0.71
8/9/2003	17:15	29.7	292	0.1	7.1	1.0	12.8	0.72
8/9/2003	17:30	29.8	296	0.1	7.1	0.8	11.1	0.71
8/9/2003	17:45	29.9	293	0.1	7.1	1.4	19.1	0.71
8/9/2003	18:00	30.1	293	0.1	7.1	1.6	21.1	0.71
8/9/2003	18:15	30.0	293	0.1	7.1	1.2	15.7	0.71
8/9/2003	18:30	29.9	292	0.1	7.1	1.5	20.0	0.71
8/9/2003	18:45	30.0	291	0.1	7.1	1.5	20.5	0.70
8/9/2003	19:00	30.0	290	0.1	7.1	1.9	25.5	0.69
8/9/2003	19:15	30.1	290	0.1	7.1	3.0	39.3	0.69
8/9/2003	19:30	30.1	289	0.1	7.1	2.6	35.1	0.69

8/9/2003	19:45	30.4	288	0.1	7.2	2.6	34.4	0.68
8/9/2003	20:00	30.3	289	0.1	7.2	2.7	35.3	0.69
8/9/2003	20:15	30.3	291	0.1	7.2	2.7	35.3	0.69
8/9/2003	20:30	30.2	290	0.1	7.2	2.2	29.3	0.68
8/9/2003	20:45	30.2	290	0.1	7.2	2.7	35.4	0.68
8/9/2003	21:00	30.2	290	0.1	7.2	2.5	33.6	0.68
8/9/2003	21:15	30.2	290	0.1	7.2	2.8	37.6	0.67
8/9/2003	21:30	30.2	290	0.1	7.2	2.8	37.1	0.67
8/9/2003	21:45	30.1	291	0.1	7.2	2.7	35.1	0.67
8/9/2003	22:00	30.1	291	0.1	7.2	2.6	34.6	0.67
8/9/2003	22:15	30.1	291	0.1	7.2	2.8	36.5	0.67
8/9/2003	22:30	30.0	290	0.1	7.2	2.8	37.5	0.66
8/9/2003	22:45	30.0	292	0.1	7.2	2.3	29.8	0.66
8/9/2003	23:00	30.0	292	0.1	7.2	2.5	33.1	0.66
8/9/2003	23:15	29.9	292	0.1	7.2	2.5	32.9	0.65
8/9/2003	23:30	29.9	293	0.1	7.2	2.2	28.7	0.65
8/9/2003	23:45	29.9	294	0.1	7.2	2.0	26.6	0.65
8/10/2003	0:00	29.8	292	0.1	7.2	2.2	29.5	0.65
8/10/2003	0:15	29.8	291	0.1	7.2	1.8	23.8	0.65
8/10/2003	0:30	29.8	292	0.1	7.2	2.0	26.5	0.64
8/10/2003	0:45	29.7	293	0.1	7.2	2.0	26.0	0.64
8/10/2003	1:00	29.7	295	0.1	7.2	2.0	25.8	0.64
8/10/2003	1:15	29.7	294	0.1	7.2	1.8	24.3	0.64
8/10/2003	1:30	29.7	294	0.1	7.2	1.8	23.3	0.64
8/10/2003	1:45	29.7	293	0.1	7.2	1.8	24.0	0.64
8/10/2003	2:00	29.6	293	0.1	7.2	1.6	20.9	0.63
8/10/2003	2:15	29.6	294	0.1	7.2	1.7	22.8	0.63
8/10/2003	2:30	29.6	295	0.1	7.2	1.8	23.6	0.63
8/10/2003	2:45	29.6	295	0.1	7.2	1.5	19.9	0.63
8/10/2003	3:00	29.5	295	0.1	7.2	1.6	21.0	0.62
8/10/2003	3:15	29.5	296	0.1	7.2	1.5	19.7	0.62

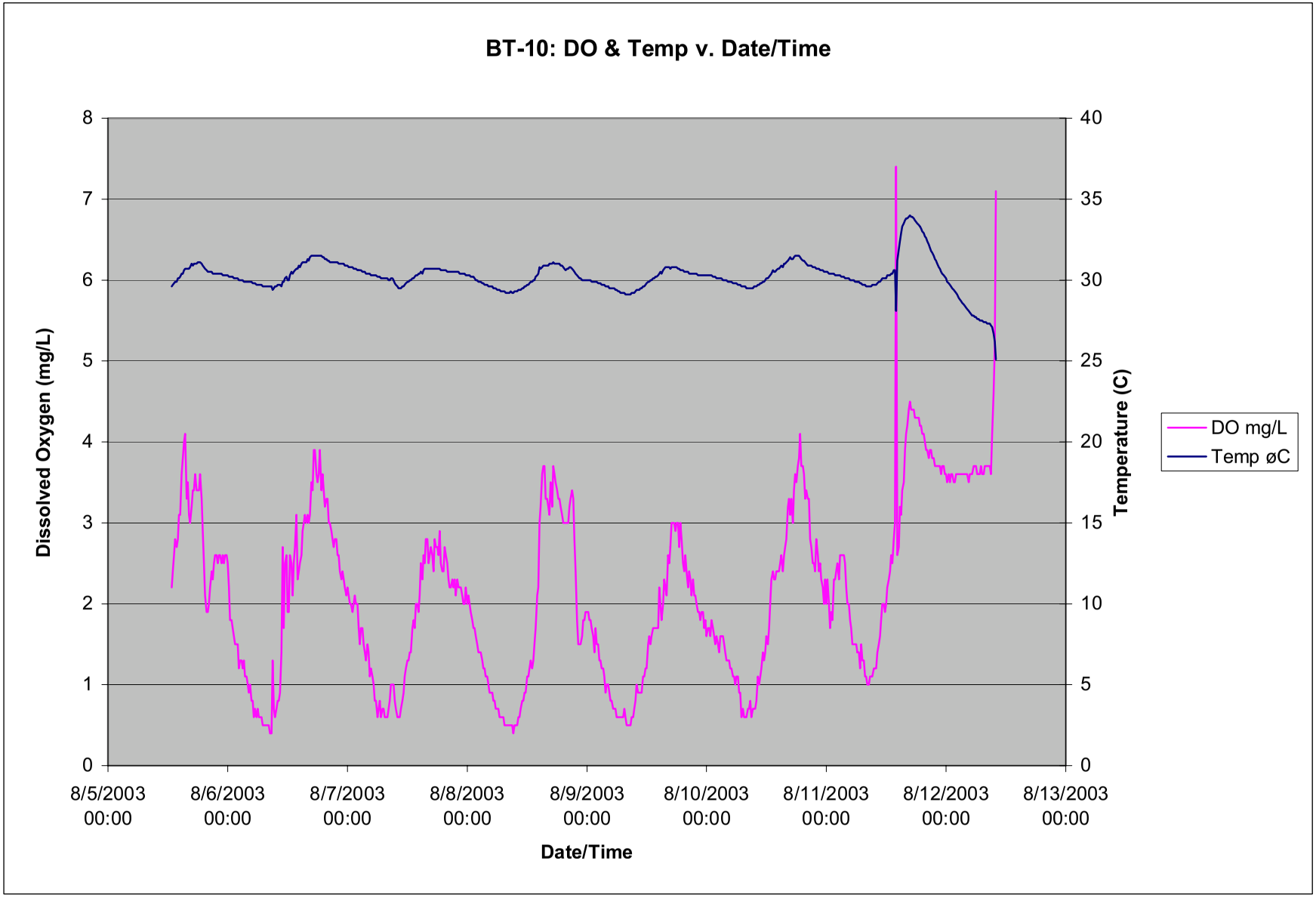
8/10/2003	3:30	29.5	296	0.1	7.2	1.7	22.1	0.62
8/10/2003	3:45	29.4	296	0.1	7.2	1.4	17.9	0.62
8/10/2003	4:00	29.4	295	0.1	7.1	1.2	16.2	0.61
8/10/2003	4:15	29.4	296	0.1	7.2	1.3	16.9	0.62
8/10/2003	4:30	29.4	296	0.1	7.1	1.2	15.6	0.62
8/10/2003	4:45	29.3	296	0.1	7.1	1.4	17.8	0.63
8/10/2003	5:00	29.3	296	0.1	7.2	1.2	16.0	0.62
8/10/2003	5:15	29.3	296	0.1	7.2	1.1	14.3	0.62
8/10/2003	5:30	29.3	296	0.1	7.2	1.2	15.8	0.62
8/10/2003	5:45	29.2	296	0.1	7.1	1.2	15.4	0.62
8/10/2003	6:00	29.2	296	0.1	7.1	1.0	13.6	0.63
8/10/2003	6:15	29.2	296	0.1	7.1	1.2	15.0	0.63
8/10/2003	6:30	29.2	296	0.1	7.1	1.0	13.4	0.63
8/10/2003	6:45	29.1	296	0.1	7.1	1.1	14.1	0.63
8/10/2003	7:00	29.1	297	0.1	7.2	1.1	14.3	0.64
8/10/2003	7:15	29.1	297	0.1	7.1	1.0	12.6	0.63
8/10/2003	7:30	29.1	298	0.1	7.1	0.8	10.7	0.64
8/10/2003	7:45	29.1	298	0.1	7.1	1.0	13.0	0.64
8/10/2003	8:00	29.1	298	0.1	7.1	0.9	11.2	0.64
8/10/2003	8:15	29.0	298	0.1	7.1	1.0	12.9	0.65
8/10/2003	8:30	29.0	297	0.1	7.1	0.8	9.8	0.65
8/10/2003	8:45	29.0	297	0.1	7.1	0.6	8.1	0.66
8/10/2003	9:00	29.0	297	0.1	7.1	0.9	11.8	0.67
8/10/2003	9:15	29.0	297	0.1	7.1	0.6	7.8	0.66
8/10/2003	9:30	29.0	297	0.1	7.1	0.7	8.6	0.67
8/10/2003	9:45	29.0	297	0.1	7.1	0.6	7.6	0.68
8/10/2003	10:00	29.1	297	0.1	7.1	0.8	10.3	0.68
8/10/2003	10:15	29.1	297	0.1	7.1	0.7	8.7	0.68
8/10/2003	10:30	29.1	297	0.1	7.1	0.7	9.6	0.69
8/10/2003	10:45	29.1	297	0.1	7.1	0.8	10.1	0.69
8/10/2003	11:00	29.1	297	0.1	7.1	0.8	10.7	0.70

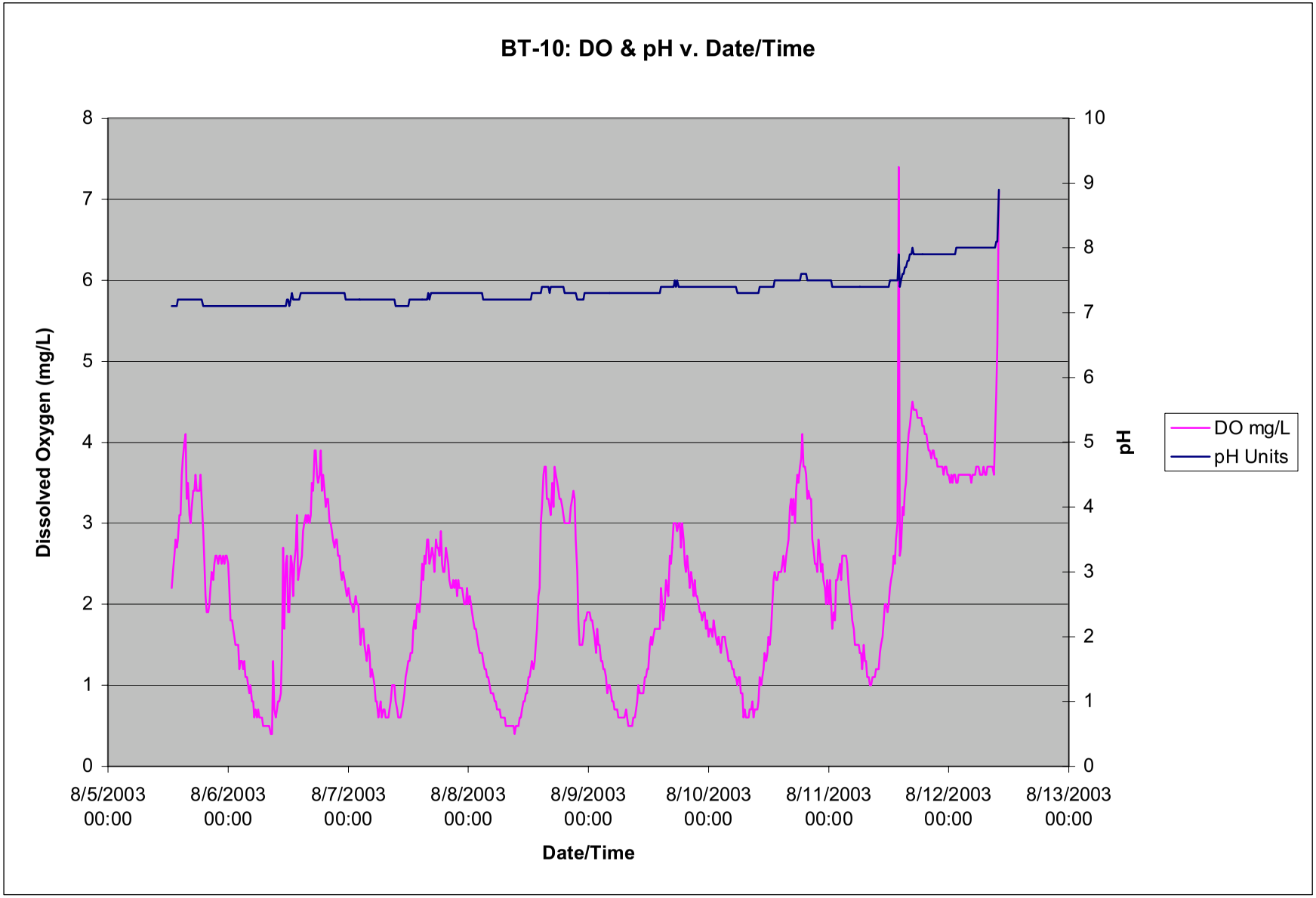
8/10/2003	11:15	29.2	297	0.1	7.1	0.8	11.0	0.69
8/10/2003	11:30	29.2	297	0.1	7.1	0.9	11.1	0.69
8/10/2003	11:45	29.3	297	0.1	7.1	0.8	10.1	0.70
8/10/2003	12:00	29.3	297	0.1	7.1	0.9	12.2	0.69
8/10/2003	12:15	29.4	297	0.1	7.1	0.9	11.9	0.70
8/10/2003	12:30	29.4	297	0.1	7.2	1.0	12.7	0.70
8/10/2003	12:45	29.5	298	0.1	7.1	0.8	10.2	0.71
8/10/2003	13:00	29.6	298	0.1	7.1	0.9	11.5	0.71
8/10/2003	13:15	29.6	298	0.1	7.1	1.0	12.5	0.71
8/10/2003	13:30	29.7	297	0.1	7.1	1.0	12.8	0.72
8/10/2003	13:45	29.7	298	0.1	7.2	1.2	15.2	0.72
8/10/2003	14:00	29.7	298	0.1	7.2	1.1	13.8	0.72
8/10/2003	14:15	29.9	298	0.1	7.2	1.1	14.5	0.72
8/10/2003	14:30	29.9	298	0.1	7.2	1.1	13.8	0.73
8/10/2003	14:45	29.8	306	0.2	7.2	1.0	13.5	0.73
8/10/2003	15:00	29.9	300	0.2	7.1	0.9	12.2	0.73
8/10/2003	15:15	29.9	299	0.1	7.2	0.9	11.6	0.73
8/10/2003	15:30	30.0	298	0.1	7.2	1.4	17.9	0.73
8/10/2003	15:45	29.9	299	0.1	7.2	0.9	12.3	0.73
8/10/2003	16:00	30.0	298	0.1	7.2	0.9	12.4	0.72
8/10/2003	16:15	30.1	299	0.1	7.2	1.2	16.4	0.73
8/10/2003	16:30	30.0	302	0.2	7.2	0.8	10.9	0.72
8/10/2003	16:45	30.1	299	0.1	7.1	0.9	11.7	0.73
8/10/2003	17:00	30.2	299	0.1	7.2	1.1	14.8	0.72
8/10/2003	17:15	30.2	300	0.2	7.2	1.2	15.7	0.73
8/10/2003	17:30	30.2	300	0.2	7.2	1.0	13.6	0.72
8/10/2003	17:45	30.2	299	0.1	7.2	0.9	11.9	0.72
8/10/2003	18:00	30.2	304	0.2	7.2	1.0	13.3	0.72
8/10/2003	18:15	30.2	300	0.2	7.2	1.0	12.9	0.72
8/10/2003	18:30	30.4	302	0.2	7.2	1.2	15.9	0.72
8/10/2003	18:45	30.4	302	0.2	7.2	1.7	22.2	0.71

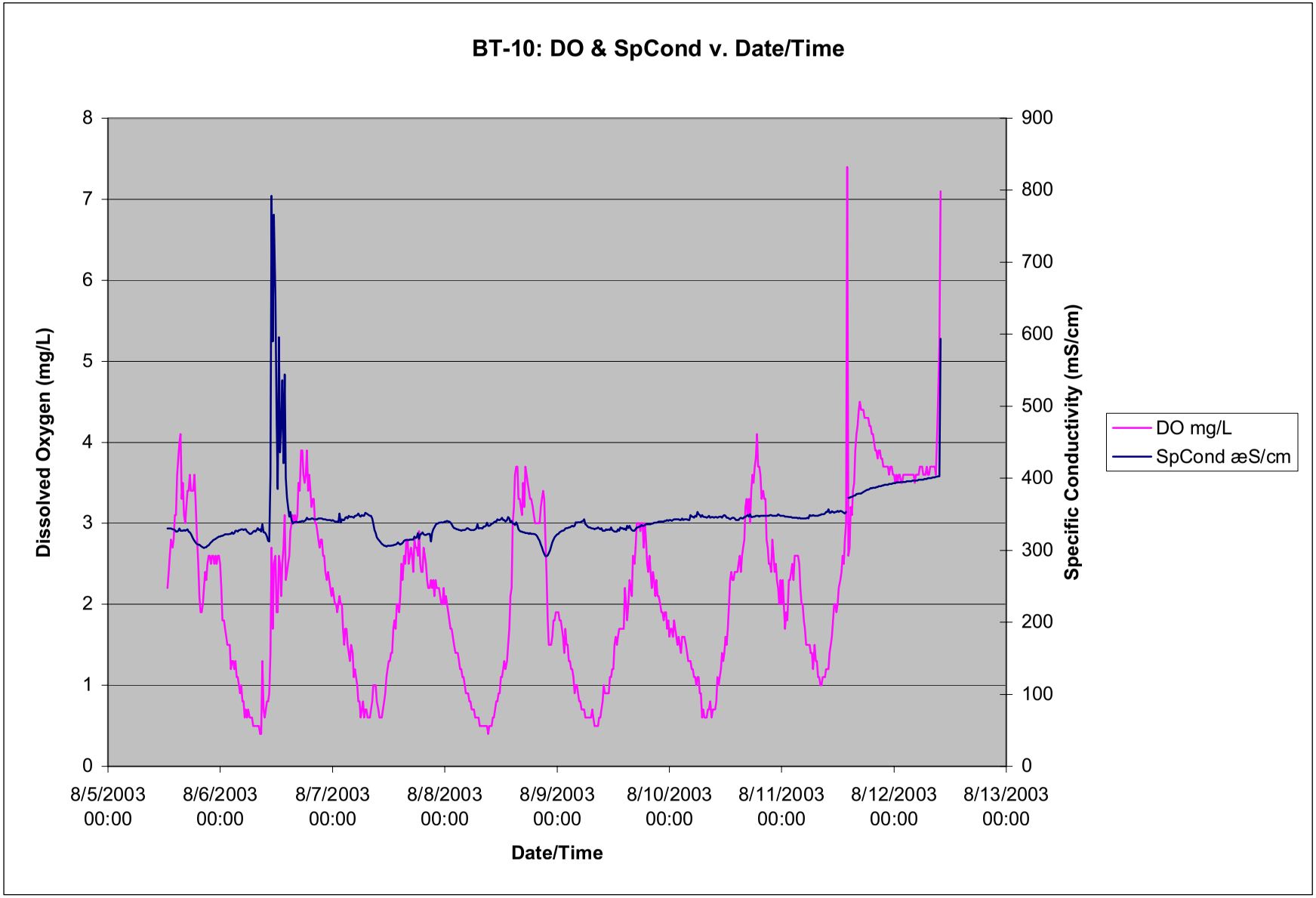
8/10/2003	19:00	30.4	302	0.2	7.2	1.7	22.3	0.71
8/10/2003	19:15	30.5	304	0.2	7.2	1.4	19.3	0.70
8/10/2003	19:30	30.5	302	0.2	7.2	1.6	21.8	0.71
8/10/2003	19:45	30.5	302	0.2	7.2	2.0	26.2	0.70
8/10/2003	20:00	30.5	302	0.2	7.2	1.4	18.7	0.70
8/10/2003	20:15	30.6	303	0.2	7.3	2.3	30.7	0.70
8/10/2003	20:30	30.5	302	0.2	7.2	1.8	24.0	0.70
8/10/2003	20:45	30.5	304	0.2	7.2	1.7	22.9	0.69
8/10/2003	21:00	30.5	304	0.2	7.2	1.7	22.9	0.69
8/10/2003	21:15	30.5	305	0.2	7.2	1.9	25.3	0.69
8/10/2003	21:30	30.5	304	0.2	7.3	2.6	34.1	0.69
8/10/2003	21:45	30.5	305	0.2	7.3	2.8	37.0	0.68
8/10/2003	22:00	30.4	304	0.2	7.3	2.2	29.3	0.69
8/10/2003	22:15	30.4	304	0.2	7.3	2.9	39.0	0.68
8/10/2003	22:30	30.4	305	0.2	7.3	2.5	32.9	0.69
8/10/2003	22:45	30.3	305	0.2	7.3	2.8	37.3	0.67
8/10/2003	23:00	30.3	305	0.2	7.3	2.6	34.1	0.67
8/10/2003	23:15	30.3	305	0.2	7.3	2.4	31.9	0.68
8/10/2003	23:30	30.2	305	0.2	7.3	2.3	31.0	0.67
8/10/2003	23:45	30.2	305	0.2	7.3	2.2	28.9	0.66
8/11/2003	0:00	30.1	305	0.2	7.3	2.4	32.2	0.66
8/11/2003	0:15	30.1	306	0.2	7.3	2.3	30.5	0.66
8/11/2003	0:30	30.1	306	0.2	7.3	2.4	32.4	0.65
8/11/2003	0:45	30.0	306	0.2	7.3	2.3	30.8	0.66
8/11/2003	1:00	30.0	306	0.2	7.3	2.1	27.8	0.65
8/11/2003	1:15	30.0	307	0.2	7.3	2.0	26.0	0.65
8/11/2003	1:30	29.9	307	0.2	7.3	1.9	25.2	0.65
8/11/2003	1:45	29.9	307	0.2	7.3	2.1	27.9	0.64
8/11/2003	2:00	29.9	308	0.2	7.3	2.1	27.7	0.64
8/11/2003	2:15	29.8	308	0.2	7.3	1.9	25.5	0.64
8/11/2003	2:30	29.8	309	0.2	7.3	1.7	22.1	0.64

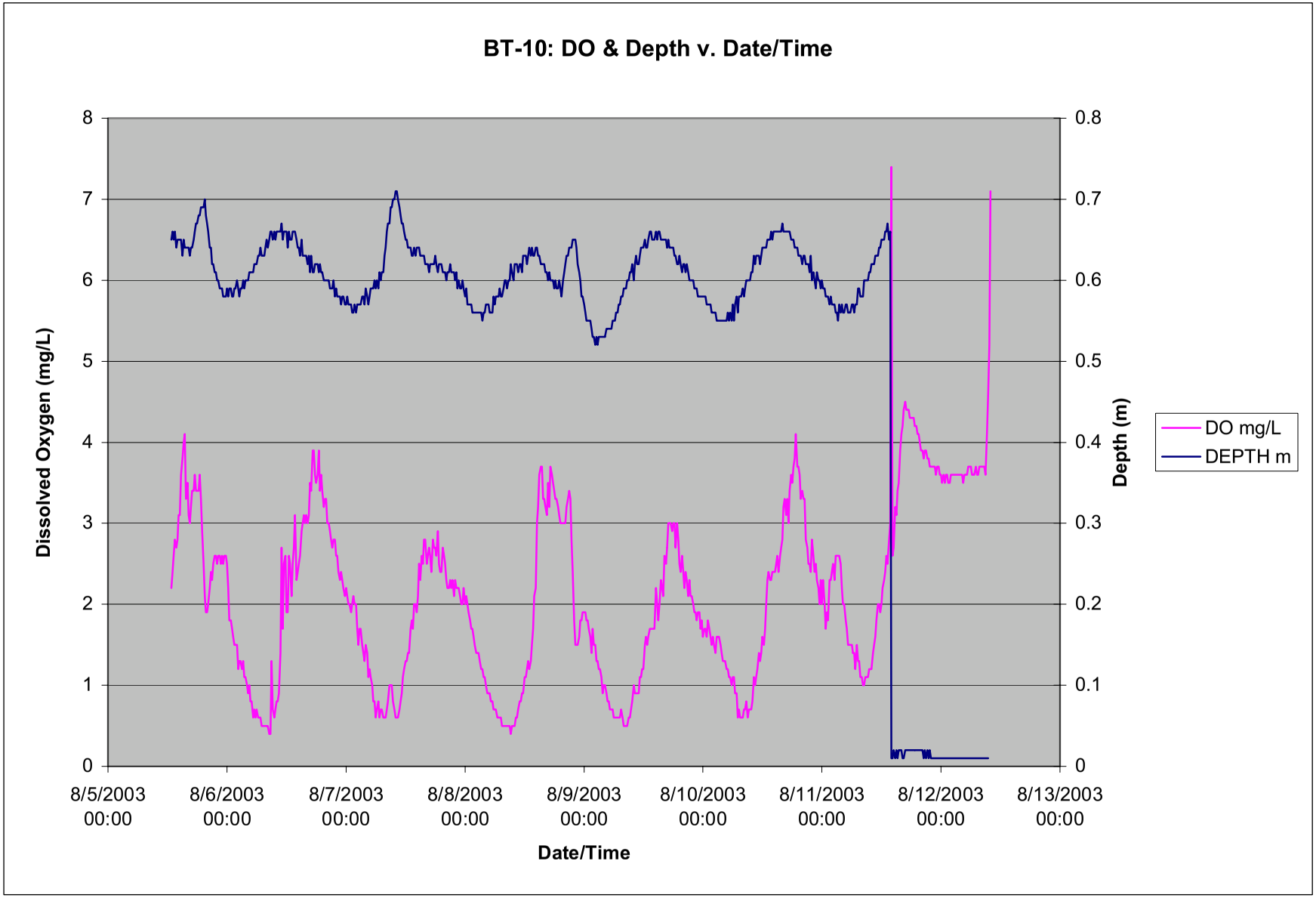
8/11/2003	2:45	29.8	310	0.2	7.3	1.7	22.5	0.64
8/11/2003	3:00	29.8	311	0.2	7.3	1.8	23.2	0.63
8/11/2003	3:15	29.8	311	0.2	7.3	1.6	21.1	0.63
8/11/2003	3:30	29.7	311	0.2	7.3	2.1	27.6	0.63
8/11/2003	3:45	29.7	313	0.2	7.3	2.0	26.1	0.64
8/11/2003	4:00	29.6	312	0.2	7.3	2.0	26.9	0.63
8/11/2003	4:15	29.6	313	0.2	7.3	1.7	22.2	0.63
8/11/2003	4:30	29.6	314	0.2	7.3	1.4	18.4	0.63
8/11/2003	4:45	29.5	315	0.2	7.3	1.6	20.8	0.63
8/11/2003	5:00	29.5	316	0.2	7.3	1.5	19.3	0.63
8/11/2003	5:15	29.5	315	0.2	7.3	1.4	18.5	0.63
8/11/2003	5:30	29.5	316	0.2	7.3	1.3	17.2	0.62
8/11/2003	5:45	29.4	317	0.2	7.3	1.2	15.3	0.63
8/11/2003	6:00	29.4	317	0.2	7.3	1.1	14.2	0.63
8/11/2003	6:15	29.4	315	0.2	7.2	1.5	19.9	0.63
8/11/2003	6:30	29.3	316	0.2	7.3	1.3	16.5	0.64
8/11/2003	6:45	29.3	314	0.2	7.3	1.2	15.7	0.63
8/11/2003	7:00	29.3	314	0.2	7.2	1.2	16.1	0.64
8/11/2003	7:15	29.2	315	0.2	7.2	1.1	14.6	0.64
8/11/2003	7:30	29.3	314	0.2	7.3	1.3	17.1	0.65
8/11/2003	7:45	29.2	314	0.2	7.2	1.2	15.8	0.65
8/11/2003	8:00	29.2	314	0.2	7.2	1.1	13.7	0.65
8/11/2003	8:15	29.2	314	0.2	7.2	0.9	11.1	0.65
8/11/2003	8:30	29.2	313	0.2	7.2	1.1	14.2	0.65
8/11/2003	8:45	29.1	312	0.2	7.2	1.0	13.6	0.67
8/11/2003	9:00	29.1	311	0.2	7.2	1.0	12.4	0.67
8/11/2003	9:15	29.1	311	0.2	7.2	0.8	10.2	0.67
8/11/2003	9:30	29.1	310	0.2	7.2	1.0	12.6	0.67
8/11/2003	9:45	29.1	310	0.2	7.2	1.0	13.5	0.68
8/11/2003	10:00	29.1	310	0.2	7.2	0.8	10.9	0.68
8/11/2003	10:15	29.2	309	0.2	7.2	0.9	11.7	0.69

8/11/2003	10:30	29.2	309	0.2	7.2	1.0	12.9	0.69
8/11/2003	10:45	29.2	309	0.2	7.2	0.9	11.3	0.69
8/11/2003	11:00	29.2	309	0.2	7.2	0.9	12.2	0.70
8/11/2003	11:15	29.3	309	0.2	7.2	0.7	8.8	0.70
8/11/2003	11:30	29.3	309	0.2	7.2	0.7	9.2	0.70
8/11/2003	11:45	29.4	309	0.2	7.2	0.9	11.4	0.71
8/11/2003	12:00	29.4	309	0.2	7.2	0.8	10.4	0.71


BT-10: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
0
1
2
3
4
5
6
7
8
0
5
10
15
20
25
30
35
40
8/5/2003 00:00
8/6/2003 00:00
8/7/2003 00:00
8/8/2003 00:00
8/9/2003 00:00
8/10/2003 00:00
8/11/2003 00:00
8/12/2003 00:00
8/13/2003 00:00
DO mg/L
Temp øC


BT-10: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
pH
Date/Time
DO mg/L
pH Units
0
1
2
3
4
5
6
7
8
9
10
8/5/2003 00:00
8/6/2003 00:00
8/7/2003 00:00
8/8/2003 00:00
8/9/2003 00:00
8/10/2003 00:00
8/11/2003 00:00
8/12/2003 00:00
8/13/2003 00:00


BT-10: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
0
1
2
3
4
5
6
7
8
0
100
200
300
400
500
600
700
800
900
8/5/2003 00:00
8/6/2003 00:00
8/7/2003 00:00
8/8/2003 00:00
8/9/2003 00:00
8/10/2003 00:00
8/11/2003 00:00
8/12/2003 00:00
8/13/2003 00:00
DO mg/L
SpCond æS/cm


BT-10: DO & Depth v. Date/Time
Dissolved Oxygen (mg/L)
Depth (m)
Date/Time
DO mg/L
DEPTH m
0
1
2
3
4
5
6
7
8
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
8/5/2003 00:00
8/6/2003 00:00
8/7/2003 00:00
8/8/2003 00:00
8/9/2003 00:00
8/10/2003 00:00
8/11/2003 00:00
8/12/2003 00:00
8/13/2003 00:00

MiniSonde 4a 40010
Log File Name : BT-10
Setup Date (MMDDYY) : 080403
Setup Time (HHMMSS) : 130352
Starting Date (MMDDYY) : 080403
Starting Time (HHMMSS) : 131500
Stopping Date (MMDDYY) : 081203
Stopping Time (HHMMSS) : 235959
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS	Temp øC	SpCond æS/cm	Sal ppt	pH Units	DO mg/l	DO% Sat	Depth meters
8/5/2003	12:45	29.6	330	0.2	7.1	2.2	28.8	0.65
8/5/2003	13:00	29.7	330	0.2	7.1	2.4	31.6	0.66
8/5/2003	13:15	29.8	330	0.2	7.1	2.6	34.3	0.65
8/5/2003	13:30	29.9	330	0.2	7.1	2.8	36.5	0.66
8/5/2003	13:45	29.9	329	0.2	7.1	2.7	36.0	0.64
8/5/2003	14:00	30.1	329	0.2	7.2	2.8	37.5	0.65
8/5/2003	14:15	30.1	328	0.2	7.2	3.1	41.1	0.65
8/5/2003	14:30	30.2	326	0.2	7.2	3.1	41.6	0.65
8/5/2003	14:45	30.4	326	0.2	7.2	3.6	47.4	0.65
8/5/2003	15:00	30.4	327	0.2	7.2	3.8	50.3	0.63
8/5/2003	15:15	30.6	330	0.2	7.2	4.0	54.0	0.65
8/5/2003	15:30	30.7	327	0.2	7.2	4.1	55.1	0.64
8/5/2003	15:45	30.7	327	0.2	7.2	3.3	43.8	0.64
8/5/2003	16:00	30.7	327	0.2	7.2	3.5	47.0	0.64

8/5/2003	16:15	30.7	328	0.2	7.2	3.1	41.2	0.64
8/5/2003	16:30	30.8	327	0.2	7.2	3.0	39.7	0.63
8/5/2003	16:45	31.0	328	0.2	7.2	3.2	42.9	0.64
8/5/2003	17:00	30.9	329	0.2	7.2	3.4	45.8	0.64
8/5/2003	17:15	31.0	326	0.2	7.2	3.4	45.3	0.65
8/5/2003	17:30	31.0	325	0.2	7.2	3.6	48.9	0.66
8/5/2003	17:45	31.0	323	0.2	7.2	3.4	45.3	0.67
8/5/2003	18:00	31.1	319	0.2	7.2	3.4	46.3	0.67
8/5/2003	18:15	31.1	316	0.2	7.2	3.4	45.6	0.68
8/5/2003	18:30	31.1	313	0.2	7.2	3.6	48.5	0.68
8/5/2003	18:45	31.0	311	0.2	7.2	3.3	44.5	0.69
8/5/2003	19:00	30.9	309	0.2	7.1	2.9	38.7	0.69
8/5/2003	19:15	30.8	308	0.2	7.1	2.5	33.5	0.69
8/5/2003	19:30	30.7	308	0.2	7.1	2.1	28.5	0.70
8/5/2003	19:45	30.6	306	0.2	7.1	1.9	25.9	0.68
8/5/2003	20:00	30.5	305	0.2	7.1	1.9	25.8	0.67
8/5/2003	20:15	30.5	304	0.2	7.1	2.0	27.1	0.66
8/5/2003	20:30	30.5	303	0.2	7.1	2.2	29.3	0.64
8/5/2003	20:45	30.5	304	0.2	7.1	2.4	31.7	0.64
8/5/2003	21:00	30.4	304	0.2	7.1	2.3	31.1	0.62
8/5/2003	21:15	30.4	306	0.2	7.1	2.5	33.3	0.62
8/5/2003	21:30	30.4	307	0.2	7.1	2.6	34.4	0.61
8/5/2003	21:45	30.4	309	0.2	7.1	2.6	34.4	0.61
8/5/2003	22:00	30.4	311	0.2	7.1	2.5	33.5	0.60
8/5/2003	22:15	30.4	312	0.2	7.1	2.6	35.2	0.60
8/5/2003	22:30	30.4	314	0.2	7.1	2.6	34.6	0.59
8/5/2003	22:45	30.4	315	0.2	7.1	2.5	33.9	0.59
8/5/2003	23:00	30.3	316	0.2	7.1	2.6	34.4	0.59
8/5/2003	23:15	30.3	317	0.2	7.1	2.5	33.9	0.58
8/5/2003	23:30	30.3	318	0.2	7.1	2.6	34.2	0.58
8/5/2003	23:45	30.3	319	0.2	7.1	2.6	33.9	0.58

8/6/2003	0:00	30.3	319	0.2	7.1	2.5	32.9	0.59
8/6/2003	0:15	30.2	320	0.2	7.1	2.2	29.4	0.58
8/6/2003	0:30	30.2	320	0.2	7.1	1.8	23.5	0.59
8/6/2003	0:45	30.2	321	0.2	7.1	1.8	24.3	0.59
8/6/2003	1:00	30.2	322	0.2	7.1	1.7	22.4	0.58
8/6/2003	1:15	30.1	322	0.2	7.1	1.6	20.8	0.58
8/6/2003	1:30	30.1	322	0.2	7.1	1.5	19.5	0.59
8/6/2003	1:45	30.1	322	0.2	7.1	1.5	20.4	0.59
8/6/2003	2:00	30.1	323	0.2	7.1	1.5	20.2	0.60
8/6/2003	2:15	30.0	323	0.2	7.1	1.2	16.5	0.59
8/6/2003	2:30	30.0	325	0.2	7.1	1.3	17.6	0.58
8/6/2003	2:45	30.0	323	0.2	7.1	1.3	17.0	0.59
8/6/2003	3:00	30.0	324	0.2	7.1	1.2	16.5	0.59
8/6/2003	3:15	29.9	327	0.2	7.1	1.3	17.0	0.60
8/6/2003	3:30	29.9	327	0.2	7.1	1.1	14.5	0.59
8/6/2003	3:45	29.9	326	0.2	7.1	1.1	14.0	0.60
8/6/2003	4:00	29.9	328	0.2	7.1	1.0	12.8	0.60
8/6/2003	4:15	29.9	328	0.2	7.1	0.9	11.9	0.60
8/6/2003	4:30	29.9	329	0.2	7.1	1.0	13.4	0.61
8/6/2003	4:45	29.9	329	0.2	7.1	0.8	11.1	0.61
8/6/2003	5:00	29.8	328	0.2	7.1	0.8	10.9	0.61
8/6/2003	5:15	29.8	329	0.2	7.1	0.6	8.2	0.61
8/6/2003	5:30	29.8	329	0.2	7.1	0.7	9.3	0.62
8/6/2003	5:45	29.7	326	0.2	7.1	0.6	8.2	0.62
8/6/2003	6:00	29.7	325	0.2	7.1	0.7	8.7	0.62
8/6/2003	6:15	29.7	323	0.2	7.1	0.6	8.1	0.63
8/6/2003	6:30	29.7	323	0.2	7.1	0.6	7.5	0.63
8/6/2003	6:45	29.7	324	0.2	7.1	0.6	8.0	0.64
8/6/2003	7:00	29.6	326	0.2	7.1	0.5	6.7	0.63
8/6/2003	7:15	29.6	327	0.2	7.1	0.5	6.7	0.63
8/6/2003	7:30	29.6	326	0.2	7.1	0.5	6.4	0.63

8/6/2003	7:45	29.6	328	0.2	7.1	0.5	6.7	0.64
8/6/2003	8:00	29.6	331	0.2	7.1	0.5	6.8	0.65
8/6/2003	8:15	29.6	328	0.2	7.1	0.5	6.6	0.64
8/6/2003	8:30	29.6	329	0.2	7.1	0.4	5.7	0.65
8/6/2003	8:45	29.6	326	0.2	7.1	0.4	5.7	0.66
8/6/2003	9:00	29.4	336	0.2	7.1	1.3	17.1	0.66
8/6/2003	9:15	29.5	325	0.2	7.1	0.7	8.8	0.65
8/6/2003	9:30	29.6	325	0.2	7.1	0.6	8.2	0.66
8/6/2003	9:45	29.6	323	0.2	7.1	0.7	8.9	0.65
8/6/2003	10:00	29.7	319	0.2	7.1	0.8	10.0	0.66
8/6/2003	10:15	29.7	313	0.2	7.1	0.8	10.8	0.66
8/6/2003	10:30	29.7	312	0.2	7.1	0.9	11.5	0.66
8/6/2003	10:45	29.6	404	0.2	7.1	1.4	18.5	0.66
8/6/2003	11:00	29.9	792	0.4	7.1	2.7	35.5	0.67
8/6/2003	11:15	29.9	590	0.3	7.1	1.7	22.8	0.65
8/6/2003	11:30	30.1	766	0.4	7.1	2.5	32.9	0.66
8/6/2003	11:45	30.2	652	0.3	7.2	2.6	34.4	0.66
8/6/2003	12:00	30.0	484	0.2	7.2	1.9	25.2	0.66
8/6/2003	12:15	30.0	385	0.2	7.1	1.9	25.5	0.64
8/6/2003	12:30	30.3	596	0.3	7.2	2.6	34.2	0.66
8/6/2003	12:45	30.5	436	0.2	7.3	2.5	33.8	0.65
8/6/2003	13:00	30.4	474	0.2	7.2	2.1	28.2	0.65
8/6/2003	13:15	30.5	536	0.3	7.2	2.5	34.3	0.66
8/6/2003	13:30	30.6	421	0.2	7.2	2.7	35.9	0.66
8/6/2003	13:45	30.7	544	0.3	7.2	3.1	41.6	0.66
8/6/2003	14:00	30.7	400	0.2	7.2	2.3	30.4	0.65
8/6/2003	14:15	30.9	373	0.2	7.2	2.4	31.9	0.64
8/6/2003	14:30	30.8	360	0.2	7.3	2.5	33.4	0.64
8/6/2003	14:45	31.0	347	0.2	7.3	2.6	35.5	0.63
8/6/2003	15:00	31.1	353	0.2	7.3	2.9	39.1	0.65
8/6/2003	15:15	31.1	342	0.2	7.3	3.0	40.4	0.63

8/6/2003	15:30	31.1	337	0.2	7.3	3.1	42.3	0.63
8/6/2003	15:45	31.1	339	0.2	7.3	3.0	39.8	0.63
8/6/2003	16:00	31.3	339	0.2	7.3	3.1	42.4	0.63
8/6/2003	16:15	31.2	340	0.2	7.3	3.0	39.9	0.62
8/6/2003	16:30	31.4	339	0.2	7.3	3.1	42.7	0.63
8/6/2003	16:45	31.5	339	0.2	7.3	3.5	46.9	0.61
8/6/2003	17:00	31.5	340	0.2	7.3	3.4	46.7	0.63
8/6/2003	17:15	31.5	340	0.2	7.3	3.9	53.5	0.61
8/6/2003	17:30	31.5	341	0.2	7.3	3.9	53.1	0.61
8/6/2003	17:45	31.5	340	0.2	7.3	3.6	49.5	0.62
8/6/2003	18:00	31.5	341	0.2	7.3	3.5	47.5	0.62
8/6/2003	18:15	31.5	342	0.2	7.3	3.6	49.5	0.62
8/6/2003	18:30	31.5	345	0.2	7.3	3.9	53.0	0.61
8/6/2003	18:45	31.5	343	0.2	7.3	3.4	46.4	0.62
8/6/2003	19:00	31.4	343	0.2	7.3	3.6	48.9	0.61
8/6/2003	19:15	31.4	343	0.2	7.3	3.4	46.3	0.61
8/6/2003	19:30	31.3	344	0.2	7.3	3.2	43.6	0.60
8/6/2003	19:45	31.3	344	0.2	7.3	3.3	44.3	0.60
8/6/2003	20:00	31.2	343	0.2	7.3	3.3	43.9	0.60
8/6/2003	20:15	31.2	343	0.2	7.3	3.0	40.5	0.60
8/6/2003	20:30	31.1	343	0.2	7.3	3.0	40.1	0.60
8/6/2003	20:45	31.1	343	0.2	7.3	2.9	39.6	0.59
8/6/2003	21:00	31.1	344	0.2	7.3	2.8	37.2	0.59
8/6/2003	21:15	31.1	344	0.2	7.3	2.7	36.8	0.59
8/6/2003	21:30	31.1	344	0.2	7.3	2.8	37.1	0.60
8/6/2003	21:45	31.1	344	0.2	7.3	2.8	37.3	0.58
8/6/2003	22:00	31.1	343	0.2	7.3	2.6	34.9	0.59
8/6/2003	22:15	31.0	343	0.2	7.3	2.6	35.0	0.58
8/6/2003	22:30	31.0	343	0.2	7.3	2.4	31.6	0.58
8/6/2003	22:45	31.0	342	0.2	7.3	2.3	30.8	0.58
8/6/2003	23:00	31.0	342	0.2	7.3	2.4	32.3	0.57

8/6/2003	23:15	31.0	342	0.2	7.3	2.3	30.8	0.58
8/6/2003	23:30	30.9	342	0.2	7.2	2.2	29.7	0.58
8/6/2003	23:45	30.9	341	0.2	7.2	2.1	28.2	0.57
8/7/2003	0:00	30.9	342	0.2	7.2	2.2	29.7	0.57
8/7/2003	0:15	30.8	341	0.2	7.2	2.1	27.9	0.58
8/7/2003	0:30	30.8	340	0.2	7.2	2.0	27.3	0.57
8/7/2003	0:45	30.8	340	0.2	7.2	2.0	27.1	0.57
8/7/2003	1:00	30.8	340	0.2	7.2	1.9	25.7	0.57
8/7/2003	1:15	30.7	339	0.2	7.2	2.0	26.5	0.56
8/7/2003	1:30	30.7	351	0.2	7.2	2.1	27.4	0.56
8/7/2003	1:45	30.7	338	0.2	7.2	2.0	26.2	0.57
8/7/2003	2:00	30.6	343	0.2	7.2	2.0	26.2	0.56
8/7/2003	2:15	30.6	342	0.2	7.2	1.7	23.3	0.57
8/7/2003	2:30	30.6	342	0.2	7.2	1.5	20.3	0.57
8/7/2003	2:45	30.6	345	0.2	7.2	1.7	22.8	0.57
8/7/2003	3:00	30.5	346	0.2	7.2	1.7	23.1	0.57
8/7/2003	3:15	30.5	344	0.2	7.2	1.5	19.8	0.58
8/7/2003	3:30	30.5	348	0.2	7.2	1.4	18.6	0.58
8/7/2003	3:45	30.4	346	0.2	7.2	1.3	17.8	0.57
8/7/2003	4:00	30.4	347	0.2	7.2	1.5	19.6	0.59
8/7/2003	4:15	30.4	346	0.2	7.2	1.4	18.7	0.58
8/7/2003	4:30	30.4	345	0.2	7.2	1.1	15.0	0.57
8/7/2003	4:45	30.3	348	0.2	7.2	1.2	16.2	0.58
8/7/2003	5:00	30.3	348	0.2	7.2	1.1	15.0	0.59
8/7/2003	5:15	30.3	349	0.2	7.2	1.0	13.6	0.59
8/7/2003	5:30	30.3	351	0.2	7.2	0.8	11.1	0.59
8/7/2003	5:45	30.3	348	0.2	7.2	0.8	9.9	0.60
8/7/2003	6:00	30.2	347	0.2	7.2	0.6	8.2	0.59
8/7/2003	6:15	30.2	349	0.2	7.2	0.7	9.3	0.60
8/7/2003	6:30	30.2	348	0.2	7.2	0.8	10.0	0.59
8/7/2003	6:45	30.1	348	0.2	7.2	0.6	8.3	0.61

8/7/2003	7:00	30.1	352	0.2	7.2	0.7	9.1	0.60
8/7/2003	7:15	30.1	351	0.2	7.2	0.7	8.6	0.61
8/7/2003	7:30	30.1	350	0.2	7.2	0.6	8.1	0.61
8/7/2003	7:45	30.1	349	0.2	7.2	0.6	7.9	0.63
8/7/2003	8:00	30.1	348	0.2	7.2	0.6	7.8	0.64
8/7/2003	8:15	30.0	348	0.2	7.2	0.7	9.5	0.66
8/7/2003	8:30	30.0	344	0.2	7.2	0.8	11.1	0.67
8/7/2003	8:45	30.1	337	0.2	7.2	1.0	13.0	0.67
8/7/2003	9:00	30.1	328	0.2	7.2	1.0	13.5	0.69
8/7/2003	9:15	30.0	324	0.2	7.2	1.0	13.7	0.69
8/7/2003	9:30	29.8	318	0.2	7.1	0.8	10.9	0.70
8/7/2003	9:45	29.7	315	0.2	7.1	0.7	8.6	0.70
8/7/2003	10:00	29.6	313	0.2	7.1	0.6	7.2	0.71
8/7/2003	10:15	29.5	311	0.2	7.1	0.6	7.7	0.71
8/7/2003	10:30	29.5	309	0.2	7.1	0.6	7.7	0.70
8/7/2003	10:45	29.5	308	0.2	7.1	0.7	9.4	0.69
8/7/2003	11:00	29.6	306	0.2	7.1	0.8	10.6	0.68
8/7/2003	11:15	29.6	306	0.2	7.1	0.9	12.3	0.67
8/7/2003	11:30	29.7	305	0.2	7.1	1.1	14.3	0.67
8/7/2003	11:45	29.8	306	0.2	7.1	1.2	15.5	0.66
8/7/2003	12:00	29.9	306	0.2	7.1	1.3	17.1	0.65
8/7/2003	12:15	29.9	306	0.2	7.2	1.3	17.6	0.65
8/7/2003	12:30	30.0	306	0.2	7.2	1.4	18.8	0.64
8/7/2003	12:45	30.0	307	0.2	7.2	1.4	18.8	0.64
8/7/2003	13:00	30.1	307	0.2	7.2	1.7	22.3	0.64
8/7/2003	13:15	30.1	308	0.2	7.2	1.8	23.7	0.63
8/7/2003	13:30	30.2	308	0.2	7.2	1.7	22.2	0.63
8/7/2003	13:45	30.3	309	0.2	7.2	2.0	26.9	0.64
8/7/2003	14:00	30.3	311	0.2	7.2	2.0	27.1	0.63
8/7/2003	14:15	30.4	309	0.2	7.2	1.9	25.1	0.64
8/7/2003	14:30	30.4	308	0.2	7.2	2.1	28.0	0.64

8/7/2003	14:45	30.5	309	0.2	7.2	2.5	32.8	0.64
8/7/2003	15:00	30.4	310	0.2	7.2	2.3	30.4	0.63
8/7/2003	15:15	30.6	313	0.2	7.2	2.6	34.4	0.63
8/7/2003	15:30	30.7	314	0.2	7.2	2.5	33.9	0.63
8/7/2003	15:45	30.7	314	0.2	7.2	2.8	37.6	0.63
8/7/2003	16:00	30.7	314	0.2	7.3	2.8	37.1	0.62
8/7/2003	16:15	30.7	314	0.2	7.2	2.5	34.0	0.62
8/7/2003	16:30	30.7	315	0.2	7.3	2.6	34.9	0.62
8/7/2003	16:45	30.7	315	0.2	7.3	2.7	35.5	0.61
8/7/2003	17:00	30.7	315	0.2	7.3	2.6	34.5	0.62
8/7/2003	17:15	30.7	315	0.2	7.3	2.4	32.0	0.62
8/7/2003	17:30	30.7	319	0.2	7.3	2.8	37.1	0.62
8/7/2003	17:45	30.7	317	0.2	7.3	2.7	36.2	0.62
8/7/2003	18:00	30.7	318	0.2	7.3	2.7	36.0	0.63
8/7/2003	18:15	30.7	324	0.2	7.3	2.6	34.8	0.62
8/7/2003	18:30	30.7	316	0.2	7.3	2.9	38.9	0.61
8/7/2003	18:45	30.6	322	0.2	7.3	2.5	33.3	0.62
8/7/2003	19:00	30.6	323	0.2	7.3	2.4	31.7	0.62
8/7/2003	19:15	30.6	325	0.2	7.3	2.4	32.0	0.62
8/7/2003	19:30	30.6	322	0.2	7.3	2.7	36.3	0.61
8/7/2003	19:45	30.6	321	0.2	7.3	2.6	34.1	0.61
8/7/2003	20:00	30.5	321	0.2	7.3	2.5	32.9	0.61
8/7/2003	20:15	30.5	322	0.2	7.3	2.3	30.6	0.60
8/7/2003	20:30	30.5	323	0.2	7.3	2.2	28.9	0.61
8/7/2003	20:45	30.5	323	0.2	7.3	2.2	29.4	0.61
8/7/2003	21:00	30.5	312	0.2	7.3	2.3	30.4	0.62
8/7/2003	21:15	30.5	324	0.2	7.3	2.2	29.8	0.61
8/7/2003	21:30	30.5	329	0.2	7.3	2.3	31.2	0.61
8/7/2003	21:45	30.5	332	0.2	7.3	2.1	28.6	0.61
8/7/2003	22:00	30.5	335	0.2	7.3	2.3	30.7	0.60
8/7/2003	22:15	30.5	337	0.2	7.3	2.2	28.8	0.61

8/7/2003	22:30	30.4	337	0.2	7.3	2.2	28.7	0.59
8/7/2003	22:45	30.4	338	0.2	7.3	2.2	29.3	0.60
8/7/2003	23:00	30.4	338	0.2	7.3	2.1	28.4	0.59
8/7/2003	23:15	30.4	339	0.2	7.3	2.0	26.7	0.59
8/7/2003	23:30	30.4	338	0.2	7.3	2.0	26.9	0.60
8/7/2003	23:45	30.3	339	0.2	7.3	2.2	28.7	0.59
8/8/2003	0:00	30.3	340	0.2	7.3	2.0	26.4	0.58
8/8/2003	0:15	30.3	340	0.2	7.3	2.1	28.0	0.59
8/8/2003	0:30	30.3	341	0.2	7.3	2.0	27.0	0.57
8/8/2003	0:45	30.2	340	0.2	7.3	1.9	25.1	0.57
8/8/2003	1:00	30.2	340	0.2	7.3	1.8	23.5	0.57
8/8/2003	1:15	30.2	338	0.2	7.3	1.7	22.8	0.57
8/8/2003	1:30	30.1	336	0.2	7.3	1.7	22.5	0.56
8/8/2003	1:45	30.0	333	0.2	7.3	1.6	21.0	0.56
8/8/2003	2:00	30.0	331	0.2	7.3	1.5	20.3	0.56
8/8/2003	2:15	29.9	330	0.2	7.3	1.4	18.3	0.56
8/8/2003	2:30	29.9	329	0.2	7.3	1.4	18.4	0.56
8/8/2003	2:45	29.9	329	0.2	7.3	1.4	18.2	0.56
8/8/2003	3:00	29.8	328	0.2	7.2	1.3	16.7	0.56
8/8/2003	3:15	29.8	328	0.2	7.2	1.2	15.2	0.56
8/8/2003	3:30	29.7	327	0.2	7.2	1.2	15.9	0.55
8/8/2003	3:45	29.7	328	0.2	7.2	1.1	14.9	0.56
8/8/2003	4:00	29.7	328	0.2	7.2	1.1	14.9	0.56
8/8/2003	4:15	29.6	328	0.2	7.2	1.0	13.7	0.57
8/8/2003	4:30	29.6	329	0.2	7.2	0.9	12.2	0.57
8/8/2003	4:45	29.6	331	0.2	7.2	0.9	12.2	0.57
8/8/2003	5:00	29.6	330	0.2	7.2	0.9	12.0	0.56
8/8/2003	5:15	29.5	329	0.2	7.2	0.8	10.7	0.56
8/8/2003	5:30	29.5	328	0.2	7.2	0.8	10.4	0.56
8/8/2003	5:45	29.5	328	0.2	7.2	0.7	8.9	0.58
8/8/2003	6:00	29.4	328	0.2	7.2	0.7	8.9	0.57

8/8/2003	6:15	29.4	328	0.2	7.2	0.7	8.7	0.58
8/8/2003	6:30	29.4	329	0.2	7.2	0.6	7.7	0.58
8/8/2003	6:45	29.3	330	0.2	7.2	0.6	7.8	0.58
8/8/2003	7:00	29.3	336	0.2	7.2	0.6	7.8	0.59
8/8/2003	7:15	29.3	330	0.2	7.2	0.6	7.5	0.58
8/8/2003	7:30	29.3	331	0.2	7.2	0.5	6.7	0.58
8/8/2003	7:45	29.2	331	0.2	7.2	0.5	6.8	0.59
8/8/2003	8:00	29.2	330	0.2	7.2	0.5	6.7	0.60
8/8/2003	8:15	29.2	333	0.2	7.2	0.5	6.7	0.60
8/8/2003	8:30	29.2	333	0.2	7.2	0.5	6.4	0.59
8/8/2003	8:45	29.3	334	0.2	7.2	0.5	6.3	0.60
8/8/2003	9:00	29.2	338	0.2	7.2	0.5	6.7	0.60
8/8/2003	9:15	29.2	334	0.2	7.2	0.4	5.2	0.62
8/8/2003	9:30	29.3	334	0.2	7.2	0.5	6.1	0.61
8/8/2003	9:45	29.3	335	0.2	7.2	0.5	6.1	0.60
8/8/2003	10:00	29.3	337	0.2	7.2	0.5	7.0	0.62
8/8/2003	10:15	29.4	337	0.2	7.2	0.6	7.4	0.62
8/8/2003	10:30	29.4	339	0.2	7.2	0.6	8.1	0.62
8/8/2003	10:45	29.4	340	0.2	7.2	0.7	9.7	0.61
8/8/2003	11:00	29.5	340	0.2	7.2	0.8	10.3	0.62
8/8/2003	11:15	29.5	343	0.2	7.2	0.8	10.9	0.62
8/8/2003	11:30	29.6	342	0.2	7.2	0.9	11.6	0.61
8/8/2003	11:45	29.6	342	0.2	7.2	0.9	11.6	0.63
8/8/2003	12:00	29.7	343	0.2	7.2	1.1	14.1	0.63
8/8/2003	12:15	29.7	345	0.2	7.2	1.1	14.6	0.63
8/8/2003	12:30	29.8	342	0.2	7.2	1.2	15.4	0.62
8/8/2003	12:45	29.9	342	0.2	7.3	1.3	17.0	0.63
8/8/2003	13:00	29.9	340	0.2	7.3	1.2	16.4	0.64
8/8/2003	13:15	30.0	342	0.2	7.3	1.3	17.3	0.63
8/8/2003	13:30	30.0	346	0.2	7.3	1.5	19.9	0.64
8/8/2003	13:45	30.2	344	0.2	7.3	1.7	22.9	0.63

8/8/2003	14:00	30.3	339	0.2	7.3	2.1	28.4	0.63
8/8/2003	14:15	30.4	341	0.2	7.3	2.2	29.3	0.64
8/8/2003	14:30	30.8	337	0.2	7.3	3.0	40.6	0.64
8/8/2003	14:45	30.7	337	0.2	7.4	3.2	42.3	0.63
8/8/2003	15:00	30.8	335	0.2	7.4	3.6	47.9	0.63
8/8/2003	15:15	30.9	339	0.2	7.4	3.7	49.8	0.62
8/8/2003	15:30	30.9	335	0.2	7.4	3.7	49.4	0.62
8/8/2003	15:45	30.9	329	0.2	7.4	3.3	44.2	0.62
8/8/2003	16:00	30.9	327	0.2	7.4	3.3	44.0	0.62
8/8/2003	16:15	30.9	326	0.2	7.3	3.2	43.5	0.61
8/8/2003	16:30	31.0	326	0.2	7.4	3.1	41.7	0.61
8/8/2003	16:45	31.0	325	0.2	7.4	3.5	47.4	0.60
8/8/2003	17:00	31.0	325	0.2	7.4	3.2	43.1	0.61
8/8/2003	17:15	31.1	324	0.2	7.4	3.7	50.1	0.60
8/8/2003	17:30	31.0	324	0.2	7.4	3.6	48.3	0.60
8/8/2003	17:45	31.0	324	0.2	7.4	3.5	46.8	0.60
8/8/2003	18:00	31.0	323	0.2	7.4	3.4	46.2	0.59
8/8/2003	18:15	31.0	324	0.2	7.4	3.3	43.8	0.60
8/8/2003	18:30	31.0	323	0.2	7.4	3.3	44.4	0.59
8/8/2003	18:45	30.9	323	0.2	7.4	3.2	43.1	0.59
8/8/2003	19:00	30.9	323	0.2	7.4	3.1	42.1	0.60
8/8/2003	19:15	30.8	322	0.2	7.3	3.0	40.3	0.59
8/8/2003	19:30	30.7	321	0.2	7.3	3.0	39.5	0.58
8/8/2003	19:45	30.6	319	0.2	7.3	3.0	40.5	0.60
8/8/2003	20:00	30.7	316	0.2	7.3	3.0	39.7	0.61
8/8/2003	20:15	30.7	313	0.2	7.3	3.0	40.3	0.62
8/8/2003	20:30	30.8	308	0.2	7.3	3.2	43.2	0.63
8/8/2003	20:45	30.8	304	0.2	7.3	3.3	43.7	0.63
8/8/2003	21:00	30.7	299	0.1	7.3	3.4	45.2	0.64
8/8/2003	21:15	30.6	295	0.1	7.3	3.3	44.3	0.64
8/8/2003	21:30	30.5	292	0.1	7.3	2.8	37.4	0.64

8/8/2003	21:45	30.4	292	0.1	7.2	2.4	32.0	0.65
8/8/2003	22:00	30.3	293	0.1	7.2	1.8	24.3	0.65
8/8/2003	22:15	30.2	296	0.1	7.2	1.5	20.2	0.65
8/8/2003	22:30	30.1	300	0.1	7.2	1.5	20.3	0.64
8/8/2003	22:45	30.1	305	0.2	7.2	1.5	19.9	0.62
8/8/2003	23:00	30.0	311	0.2	7.2	1.6	21.3	0.61
8/8/2003	23:15	30.0	315	0.2	7.3	1.8	24.1	0.60
8/8/2003	23:30	30.0	318	0.2	7.3	1.8	23.8	0.58
8/8/2003	23:45	30.0	320	0.2	7.3	1.9	24.8	0.58
8/9/2003	0:00	30.0	322	0.2	7.3	1.9	25.0	0.57
8/9/2003	0:15	30.0	323	0.2	7.3	1.9	24.4	0.56
8/9/2003	0:30	30.0	325	0.2	7.3	1.8	24.0	0.55
8/9/2003	0:45	30.0	326	0.2	7.3	1.8	23.2	0.55
8/9/2003	1:00	29.9	327	0.2	7.3	1.7	22.9	0.55
8/9/2003	1:15	29.9	327	0.2	7.3	1.6	21.0	0.55
8/9/2003	1:30	29.9	328	0.2	7.3	1.4	18.8	0.54
8/9/2003	1:45	29.9	330	0.2	7.3	1.7	22.2	0.53
8/9/2003	2:00	29.9	331	0.2	7.3	1.5	19.3	0.53
8/9/2003	2:15	29.8	331	0.2	7.3	1.5	20.3	0.52
8/9/2003	2:30	29.8	332	0.2	7.3	1.3	17.3	0.53
8/9/2003	2:45	29.8	332	0.2	7.3	1.3	17.1	0.52
8/9/2003	3:00	29.7	333	0.2	7.3	1.2	16.3	0.53
8/9/2003	3:15	29.7	334	0.2	7.3	1.2	15.7	0.53
8/9/2003	3:30	29.7	333	0.2	7.3	1.1	13.8	0.53
8/9/2003	3:45	29.6	334	0.2	7.3	0.9	12.4	0.53
8/9/2003	4:00	29.6	339	0.2	7.3	1.0	12.7	0.53
8/9/2003	4:15	29.6	338	0.2	7.3	1.0	12.6	0.53
8/9/2003	4:30	29.5	339	0.2	7.3	0.9	11.9	0.54
8/9/2003	4:45	29.5	339	0.2	7.3	0.8	10.9	0.54
8/9/2003	5:00	29.5	339	0.2	7.3	0.8	10.6	0.54
8/9/2003	5:15	29.5	340	0.2	7.3	0.7	9.4	0.54

8/9/2003	5:30	29.5	341	0.2	7.3	0.7	9.3	0.54
8/9/2003	5:45	29.4	343	0.2	7.3	0.7	8.8	0.55
8/9/2003	6:00	29.4	336	0.2	7.3	0.6	7.6	0.55
8/9/2003	6:15	29.3	335	0.2	7.3	0.6	7.2	0.55
8/9/2003	6:30	29.3	333	0.2	7.3	0.6	8.2	0.56
8/9/2003	6:45	29.2	332	0.2	7.3	0.6	8.0	0.56
8/9/2003	7:00	29.2	332	0.2	7.3	0.6	7.5	0.57
8/9/2003	7:15	29.2	331	0.2	7.3	0.6	8.2	0.57
8/9/2003	7:30	29.2	330	0.2	7.3	0.7	8.4	0.58
8/9/2003	7:45	29.1	330	0.2	7.3	0.6	7.7	0.58
8/9/2003	8:00	29.1	329	0.2	7.3	0.5	7.0	0.59
8/9/2003	8:15	29.1	330	0.2	7.3	0.5	6.9	0.59
8/9/2003	8:30	29.1	330	0.2	7.3	0.5	6.8	0.59
8/9/2003	8:45	29.1	332	0.2	7.3	0.5	6.6	0.60
8/9/2003	9:00	29.2	330	0.2	7.3	0.6	7.2	0.60
8/9/2003	9:15	29.2	329	0.2	7.3	0.6	7.8	0.61
8/9/2003	9:30	29.2	331	0.2	7.3	0.7	8.4	0.61
8/9/2003	9:45	29.3	327	0.2	7.3	0.8	9.9	0.62
8/9/2003	10:00	29.4	327	0.2	7.3	1.0	12.9	0.60
8/9/2003	10:15	29.4	327	0.2	7.3	0.9	11.7	0.62
8/9/2003	10:30	29.4	329	0.2	7.3	0.9	11.7	0.63
8/9/2003	10:45	29.5	328	0.2	7.3	0.9	12.3	0.62
8/9/2003	11:00	29.5	329	0.2	7.3	0.9	12.4	0.62
8/9/2003	11:15	29.6	328	0.2	7.3	1.1	13.9	0.63
8/9/2003	11:30	29.6	332	0.2	7.3	1.1	14.2	0.64
8/9/2003	11:45	29.7	328	0.2	7.3	1.2	15.4	0.64
8/9/2003	12:00	29.8	327	0.2	7.3	1.2	15.2	0.64
8/9/2003	12:15	29.9	326	0.2	7.3	1.5	20.0	0.65
8/9/2003	12:30	29.9	326	0.2	7.3	1.6	20.7	0.64
8/9/2003	12:45	30.0	326	0.2	7.3	1.5	19.8	0.64
8/9/2003	13:00	30.0	329	0.2	7.3	1.6	20.8	0.65

8/9/2003	13:15	30.1	327	0.2	7.3	1.7	22.9	0.66
8/9/2003	13:30	30.1	332	0.2	7.3	1.7	22.3	0.66
8/9/2003	13:45	30.2	330	0.2	7.3	1.7	22.8	0.65
8/9/2003	14:00	30.2	331	0.2	7.3	1.7	22.4	0.65
8/9/2003	14:15	30.3	329	0.2	7.3	1.7	22.8	0.65
8/9/2003	14:30	30.4	330	0.2	7.4	2.2	28.7	0.66
8/9/2003	14:45	30.5	328	0.2	7.4	2.0	26.4	0.65
8/9/2003	15:00	30.4	334	0.2	7.4	1.8	23.6	0.66
8/9/2003	15:15	30.6	331	0.2	7.4	2.0	26.6	0.66
8/9/2003	15:30	30.7	334	0.2	7.4	2.3	30.8	0.65
8/9/2003	15:45	30.8	330	0.2	7.4	2.2	29.6	0.65
8/9/2003	16:00	30.8	328	0.2	7.4	2.1	28.5	0.65
8/9/2003	16:15	30.8	327	0.2	7.4	2.6	34.4	0.65
8/9/2003	16:30	30.8	327	0.2	7.4	2.5	33.5	0.65
8/9/2003	16:45	30.7	329	0.2	7.4	2.7	36.2	0.64
8/9/2003	17:00	30.8	332	0.2	7.4	3.0	39.9	0.65
8/9/2003	17:15	30.8	332	0.2	7.5	3.0	40.8	0.64
8/9/2003	17:30	30.8	333	0.2	7.4	3.0	39.6	0.64
8/9/2003	17:45	30.8	333	0.2	7.5	2.9	39.3	0.64
8/9/2003	18:00	30.8	335	0.2	7.4	3.0	40.5	0.64
8/9/2003	18:15	30.7	334	0.2	7.4	3.0	39.5	0.63
8/9/2003	18:30	30.7	334	0.2	7.4	2.7	36.1	0.63
8/9/2003	18:45	30.6	335	0.2	7.4	3.0	40.3	0.62
8/9/2003	19:00	30.6	336	0.2	7.4	2.8	36.9	0.62
8/9/2003	19:15	30.6	336	0.2	7.4	2.5	32.9	0.63
8/9/2003	19:30	30.5	336	0.2	7.4	2.4	32.3	0.62
8/9/2003	19:45	30.5	336	0.2	7.4	2.6	35.1	0.61
8/9/2003	20:00	30.5	336	0.2	7.4	2.4	32.4	0.62
8/9/2003	20:15	30.5	337	0.2	7.4	2.2	29.3	0.62
8/9/2003	20:30	30.4	337	0.2	7.4	2.4	32.6	0.61
8/9/2003	20:45	30.4	338	0.2	7.4	2.3	30.1	0.62

8/9/2003	21:00	30.4	338	0.2	7.4	2.1	28.3	0.61
8/9/2003	21:15	30.4	338	0.2	7.4	2.3	30.2	0.60
8/9/2003	21:30	30.4	339	0.2	7.4	2.1	28.1	0.60
8/9/2003	21:45	30.4	340	0.2	7.4	2.1	28.5	0.60
8/9/2003	22:00	30.4	340	0.2	7.4	2.0	27.0	0.60
8/9/2003	22:15	30.3	340	0.2	7.4	1.9	25.4	0.59
8/9/2003	22:30	30.3	340	0.2	7.4	1.9	24.8	0.59
8/9/2003	22:45	30.3	340	0.2	7.4	1.8	24.3	0.59
8/9/2003	23:00	30.3	341	0.2	7.4	1.9	24.6	0.58
8/9/2003	23:15	30.3	341	0.2	7.4	1.9	24.8	0.58
8/9/2003	23:30	30.3	342	0.2	7.4	1.7	22.3	0.58
8/9/2003	23:45	30.3	341	0.2	7.4	1.8	23.7	0.58
8/10/2003	0:00	30.3	342	0.2	7.4	1.6	21.3	0.58
8/10/2003	0:15	30.3	342	0.2	7.4	1.7	22.7	0.58
8/10/2003	0:30	30.3	341	0.2	7.4	1.7	23.1	0.58
8/10/2003	0:45	30.3	342	0.2	7.4	1.6	21.1	0.57
8/10/2003	1:00	30.3	343	0.2	7.4	1.8	24.3	0.57
8/10/2003	1:15	30.2	343	0.2	7.4	1.7	22.0	0.57
8/10/2003	1:30	30.2	343	0.2	7.4	1.6	20.7	0.57
8/10/2003	1:45	30.2	343	0.2	7.4	1.5	20.2	0.56
8/10/2003	2:00	30.1	343	0.2	7.4	1.6	20.9	0.56
8/10/2003	2:15	30.1	342	0.2	7.4	1.5	19.4	0.56
8/10/2003	2:30	30.1	342	0.2	7.4	1.4	18.8	0.56
8/10/2003	2:45	30.1	344	0.2	7.4	1.6	21.4	0.55
8/10/2003	3:00	30.1	342	0.2	7.4	1.6	21.3	0.55
8/10/2003	3:15	30.0	343	0.2	7.4	1.6	20.5	0.55
8/10/2003	3:30	30.0	343	0.2	7.4	1.5	19.4	0.55
8/10/2003	3:45	30.0	343	0.2	7.4	1.4	17.9	0.55
8/10/2003	4:00	30.0	342	0.2	7.4	1.3	17.8	0.55
8/10/2003	4:15	29.9	342	0.2	7.4	1.3	17.2	0.55
8/10/2003	4:30	29.9	349	0.2	7.4	1.3	17.1	0.55

8/10/2003	4:45	29.9	347	0.2	7.4	1.2	16.1	0.55
8/10/2003	5:00	29.9	347	0.2	7.4	1.2	16.0	0.56
8/10/2003	5:15	29.8	345	0.2	7.4	1.1	14.4	0.55
8/10/2003	5:30	29.8	348	0.2	7.4	1.1	14.5	0.56
8/10/2003	5:45	29.8	347	0.2	7.3	1.0	12.7	0.55
8/10/2003	6:00	29.8	353	0.2	7.3	1.1	14.1	0.57
8/10/2003	6:15	29.7	350	0.2	7.3	1.1	14.1	0.55
8/10/2003	6:30	29.7	349	0.2	7.3	0.9	11.7	0.57
8/10/2003	6:45	29.7	346	0.2	7.3	0.9	11.3	0.58
8/10/2003	7:00	29.6	349	0.2	7.3	0.6	8.3	0.56
8/10/2003	7:15	29.6	347	0.2	7.3	0.7	9.3	0.58
8/10/2003	7:30	29.6	346	0.2	7.3	0.6	8.2	0.58
8/10/2003	7:45	29.6	346	0.2	7.3	0.6	7.4	0.58
8/10/2003	8:00	29.5	345	0.2	7.3	0.6	8.3	0.59
8/10/2003	8:15	29.5	346	0.2	7.3	0.7	9.2	0.58
8/10/2003	8:30	29.5	348	0.2	7.3	0.7	8.8	0.59
8/10/2003	8:45	29.5	345	0.2	7.3	0.8	9.8	0.60
8/10/2003	9:00	29.5	346	0.2	7.3	0.6	8.4	0.60
8/10/2003	9:15	29.5	346	0.2	7.3	0.7	9.0	0.60
8/10/2003	9:30	29.6	345	0.2	7.3	0.7	8.9	0.60
8/10/2003	9:45	29.6	346	0.2	7.3	0.7	9.7	0.61
8/10/2003	10:00	29.6	346	0.2	7.3	0.8	10.6	0.61
8/10/2003	10:15	29.7	345	0.2	7.4	1.1	14.1	0.63
8/10/2003	10:30	29.7	346	0.2	7.4	1.0	13.8	0.62
8/10/2003	10:45	29.8	347	0.2	7.4	1.1	14.9	0.63
8/10/2003	11:00	29.8	347	0.2	7.4	1.2	15.6	0.63
8/10/2003	11:15	29.9	345	0.2	7.4	1.4	18.0	0.63
8/10/2003	11:30	29.9	348	0.2	7.4	1.3	16.6	0.62
8/10/2003	11:45	30.0	349	0.2	7.4	1.4	18.7	0.63
8/10/2003	12:00	30.1	348	0.2	7.4	1.6	20.9	0.64
8/10/2003	12:15	30.1	345	0.2	7.4	1.5	19.6	0.64

8/10/2003	12:30	30.2	345	0.2	7.4	1.7	21.9	0.64
8/10/2003	12:45	30.3	344	0.2	7.4	2.0	25.9	0.64
8/10/2003	13:00	30.4	343	0.2	7.4	2.3	30.4	0.65
8/10/2003	13:15	30.6	344	0.2	7.5	2.4	32.5	0.65
8/10/2003	13:30	30.5	345	0.2	7.5	2.3	31.2	0.65
8/10/2003	13:45	30.5	345	0.2	7.5	2.3	30.6	0.66
8/10/2003	14:00	30.6	344	0.2	7.5	2.4	32.1	0.65
8/10/2003	14:15	30.7	342	0.2	7.5	2.4	32.7	0.66
8/10/2003	14:30	30.7	342	0.2	7.5	2.4	32.1	0.66
8/10/2003	14:45	30.8	342	0.2	7.5	2.5	33.9	0.66
8/10/2003	15:00	30.9	344	0.2	7.5	2.6	34.9	0.66
8/10/2003	15:15	30.8	345	0.2	7.5	2.4	32.6	0.66
8/10/2003	15:30	31.0	344	0.2	7.5	2.6	34.5	0.66
8/10/2003	15:45	31.0	344	0.2	7.5	2.7	36.0	0.66
8/10/2003	16:00	31.1	346	0.2	7.5	2.8	37.5	0.67
8/10/2003	16:15	31.2	346	0.2	7.5	3.2	43.0	0.66
8/10/2003	16:30	31.3	348	0.2	7.5	3.3	44.3	0.66
8/10/2003	16:45	31.4	349	0.2	7.5	3.1	41.5	0.66
8/10/2003	17:00	31.3	347	0.2	7.5	3.3	44.2	0.66
8/10/2003	17:15	31.3	350	0.2	7.5	3.0	40.3	0.66
8/10/2003	17:30	31.4	346	0.2	7.5	3.4	46.0	0.66
8/10/2003	17:45	31.5	346	0.2	7.5	3.6	48.2	0.65
8/10/2003	18:00	31.5	347	0.2	7.5	3.5	47.9	0.65
8/10/2003	18:15	31.5	347	0.2	7.5	3.7	49.9	0.65
8/10/2003	18:30	31.5	348	0.2	7.6	3.8	51.9	0.64
8/10/2003	18:45	31.4	348	0.2	7.6	4.1	55.3	0.64
8/10/2003	19:00	31.3	348	0.2	7.6	3.7	50.6	0.64
8/10/2003	19:15	31.2	347	0.2	7.6	3.7	50.3	0.63
8/10/2003	19:30	31.2	348	0.2	7.6	3.6	48.0	0.63
8/10/2003	19:45	31.1	348	0.2	7.5	3.3	45.0	0.63
8/10/2003	20:00	31.0	348	0.2	7.5	3.4	46.3	0.62

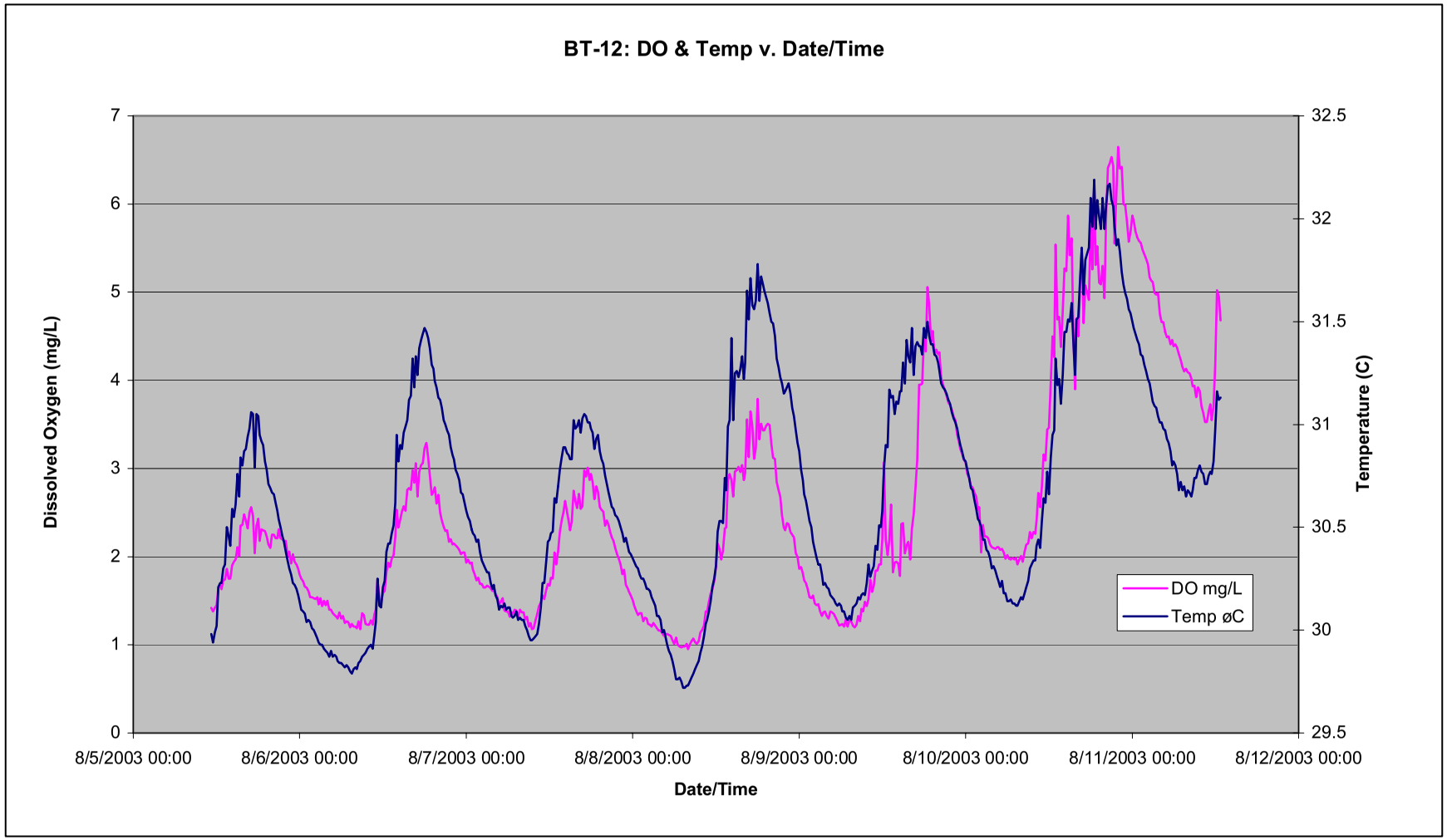
8/10/2003	20:15	30.9	348	0.2	7.5	3.3	44.4	0.63
8/10/2003	20:30	30.9	348	0.2	7.5	3.3	44.9	0.63
8/10/2003	20:45	30.9	348	0.2	7.5	2.8	37.9	0.62
8/10/2003	21:00	30.9	348	0.2	7.5	2.7	35.7	0.62
8/10/2003	21:15	30.8	348	0.2	7.5	2.5	34.1	0.62
8/10/2003	21:30	30.8	349	0.2	7.5	2.5	33.7	0.61
8/10/2003	21:45	30.8	349	0.2	7.5	2.4	32.1	0.63
8/10/2003	22:00	30.7	348	0.2	7.5	2.8	37.5	0.60
8/10/2003	22:15	30.7	348	0.2	7.5	2.6	34.2	0.61
8/10/2003	22:30	30.7	348	0.2	7.5	2.4	31.5	0.60
8/10/2003	22:45	30.6	348	0.2	7.5	2.5	33.6	0.59
8/10/2003	23:00	30.6	348	0.2	7.5	2.3	30.3	0.61
8/10/2003	23:15	30.6	350	0.2	7.5	2.2	29.0	0.60
8/10/2003	23:30	30.5	349	0.2	7.5	2.0	27.0	0.60
8/10/2003	23:45	30.5	348	0.2	7.5	2.3	30.8	0.59
8/11/2003	0:00	30.5	348	0.2	7.5	2.0	26.1	0.60
8/11/2003	0:15	30.5	348	0.2	7.5	2.3	30.1	0.59
8/11/2003	0:30	30.4	348	0.2	7.5	2.0	26.5	0.59
8/11/2003	0:45	30.4	347	0.2	7.4	1.7	22.7	0.58
8/11/2003	1:00	30.4	347	0.2	7.4	1.9	25.7	0.58
8/11/2003	1:15	30.4	347	0.2	7.4	1.8	24.5	0.58
8/11/2003	1:30	30.4	346	0.2	7.4	2.3	30.3	0.57
8/11/2003	1:45	30.3	346	0.2	7.4	2.3	30.0	0.58
8/11/2003	2:00	30.3	346	0.2	7.4	2.4	31.4	0.57
8/11/2003	2:15	30.3	345	0.2	7.4	2.5	33.7	0.57
8/11/2003	2:30	30.3	345	0.2	7.4	2.3	30.8	0.57
8/11/2003	2:45	30.3	345	0.2	7.4	2.6	34.9	0.56
8/11/2003	3:00	30.2	345	0.2	7.4	2.6	34.5	0.56
8/11/2003	3:15	30.2	345	0.2	7.4	2.6	35.0	0.55
8/11/2003	3:30	30.2	344	0.2	7.4	2.6	34.7	0.57
8/11/2003	3:45	30.1	345	0.2	7.4	2.5	33.2	0.56

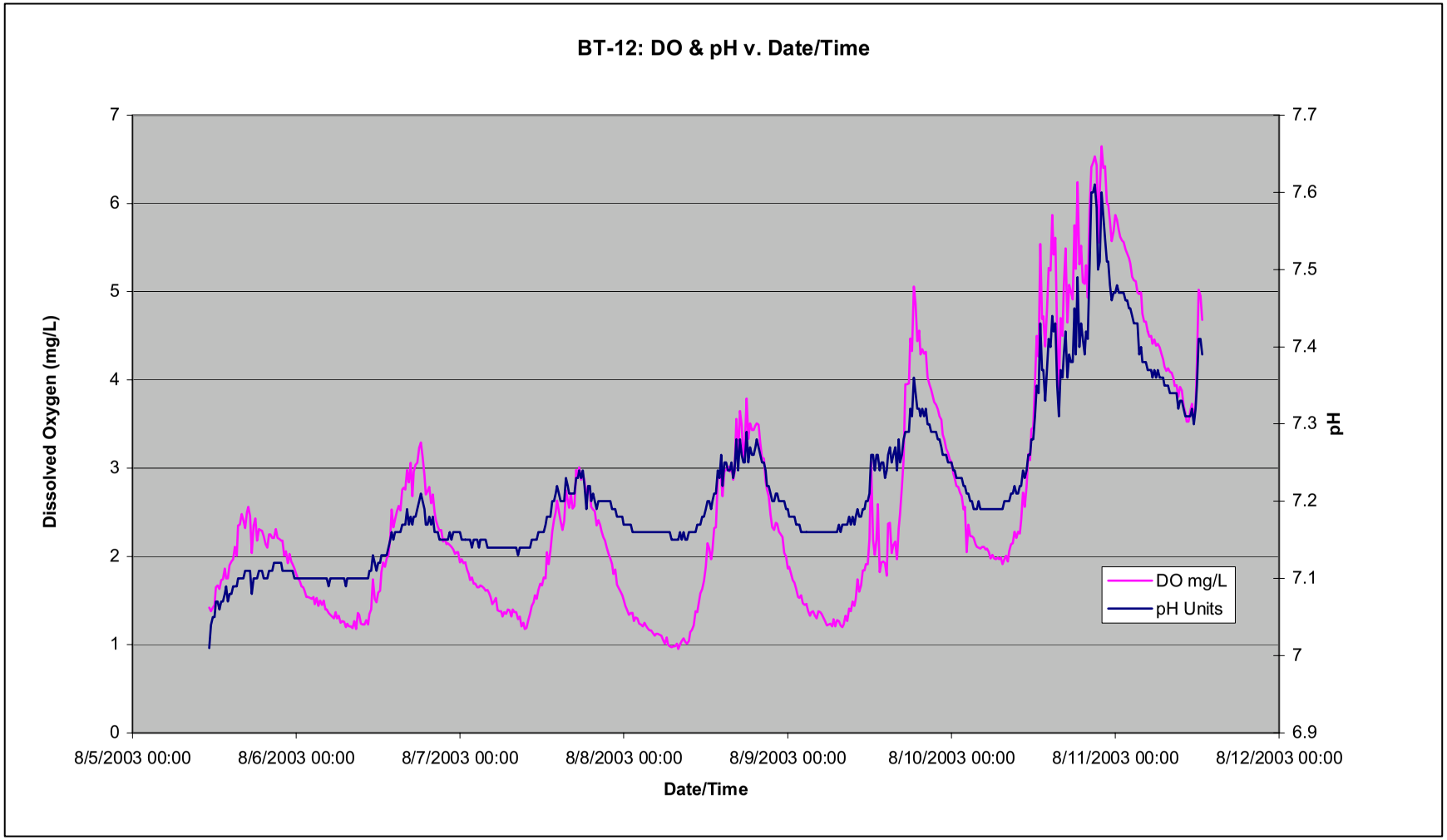
8/11/2003	4:00	30.1	344	0.2	7.4	2.2	29.8	0.57
8/11/2003	4:15	30.1	344	0.2	7.4	2.0	26.3	0.56
8/11/2003	4:30	30.1	344	0.2	7.4	2.0	25.9	0.56
8/11/2003	4:45	30.0	344	0.2	7.4	1.8	23.3	0.57
8/11/2003	5:00	30.0	344	0.2	7.4	1.7	21.8	0.57
8/11/2003	5:15	30.0	344	0.2	7.4	1.5	19.9	0.56
8/11/2003	5:30	30.0	345	0.2	7.4	1.5	19.6	0.56
8/11/2003	5:45	29.9	344	0.2	7.4	1.5	19.2	0.56
8/11/2003	6:00	29.9	349	0.2	7.4	1.5	20.1	0.57
8/11/2003	6:15	29.9	348	0.2	7.4	1.4	19.0	0.57
8/11/2003	6:30	29.9	348	0.2	7.4	1.4	18.7	0.56
8/11/2003	6:45	29.8	349	0.2	7.4	1.2	15.8	0.57
8/11/2003	7:00	29.8	348	0.2	7.4	1.5	19.1	0.57
8/11/2003	7:15	29.7	348	0.2	7.4	1.3	17.5	0.59
8/11/2003	7:30	29.7	348	0.2	7.4	1.3	16.7	0.59
8/11/2003	7:45	29.7	348	0.2	7.4	1.1	14.9	0.58
8/11/2003	8:00	29.6	349	0.2	7.4	1.1	14.3	0.58
8/11/2003	8:15	29.6	349	0.2	7.4	1.0	13.1	0.58
8/11/2003	8:30	29.6	350	0.2	7.4	1.0	13.1	0.60
8/11/2003	8:45	29.6	350	0.2	7.4	1.1	14.9	0.60
8/11/2003	9:00	29.6	350	0.2	7.4	1.1	14.6	0.60
8/11/2003	9:15	29.7	351	0.2	7.4	1.1	15.0	0.60
8/11/2003	9:30	29.7	353	0.2	7.4	1.2	16.0	0.61
8/11/2003	9:45	29.7	353	0.2	7.4	1.2	15.9	0.61
8/11/2003	10:00	29.7	357	0.2	7.4	1.2	15.9	0.62
8/11/2003	10:15	29.8	352	0.2	7.4	1.4	18.3	0.62
8/11/2003	10:30	29.9	352	0.2	7.4	1.5	20.0	0.62
8/11/2003	10:45	29.9	354	0.2	7.4	1.6	21.4	0.63
8/11/2003	11:00	30.0	353	0.2	7.4	1.8	24.0	0.63
8/11/2003	11:15	30.1	352	0.2	7.4	2.0	26.1	0.63
8/11/2003	11:30	30.1	353	0.2	7.4	2.0	26.0	0.64

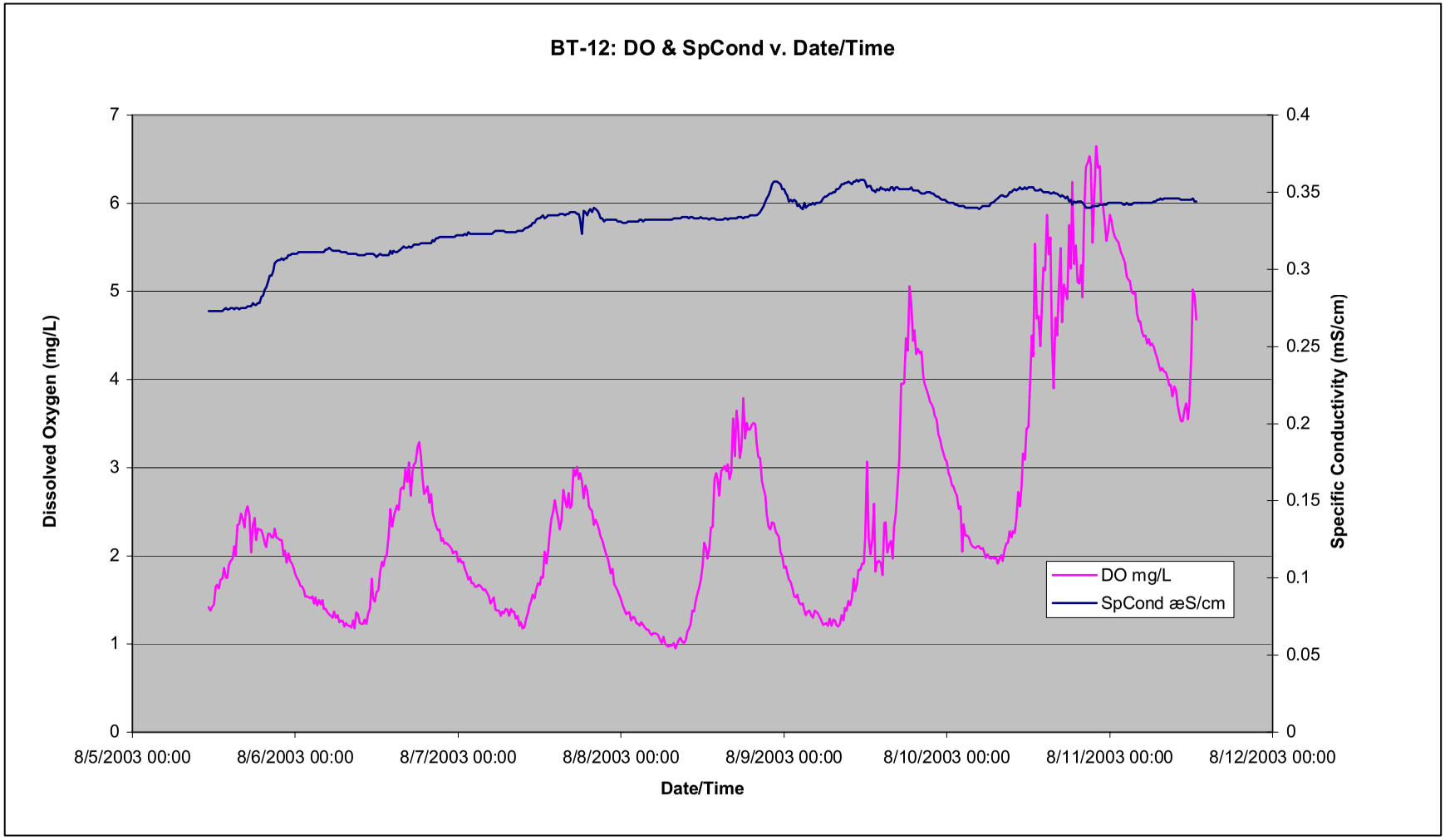
8/11/2003	11:45	30.1	353	0.2	7.4	1.9	25.5	0.64
8/11/2003	12:00	30.1	355	0.2	7.4	2.0	26.3	0.65
8/11/2003	12:15	30.3	353	0.2	7.5	2.2	29.8	0.65
8/11/2003	12:30	30.3	355	0.2	7.5	2.3	30.7	0.65
8/11/2003	12:45	30.3	354	0.2	7.5	2.4	31.7	0.66
8/11/2003	13:00	30.4	353	0.2	7.5	2.6	34.0	0.66
8/11/2003	13:15	30.4	352	0.2	7.5	2.5	33.7	0.67
8/11/2003	13:30	30.6	351	0.2	7.5	2.8	37.4	0.65
8/11/2003	13:45	30.6	353	0.2	7.5	3.0	40.2	0.66
8/11/2003	14:00	28.1		.	7.9	7.4	94.3	0.01
8/11/2003	14:15	31.2	373	0.2	7.4	2.6	34.4	0.01
8/11/2003	14:30	31.9	373	0.2	7.5	2.7	36.5	0.02
8/11/2003	14:45	32.4	374	0.2	7.6	3.2	43.4	0.01
8/11/2003	15:00	32.9	374	0.2	7.6	3.1	42.6	0.02
8/11/2003	15:15	33.3	375	0.2	7.7	3.4	47.4	0.01
8/11/2003	15:30	33.5	376	0.2	7.7	3.5	49.6	0.02
8/11/2003	15:45	33.7	376	0.2	7.8	3.9	54.3	0.02
8/11/2003	16:00	33.8	378	0.2	7.8	4.1	57.9	0.02
8/11/2003	16:15	33.8	378	0.2	7.9	4.2	59.4	0.01
8/11/2003	16:30	33.9	379	0.2	7.9	4.4	61.8	0.01
8/11/2003	16:45	34.0	379	0.2	8.0	4.5	63.3	0.02
8/11/2003	17:00	33.9	379	0.2	7.9	4.4	62.3	0.02
8/11/2003	17:15	33.9	380	0.2	7.9	4.4	62.8	0.02
8/11/2003	17:30	33.8	381	0.2	7.9	4.4	61.4	0.02
8/11/2003	17:45	33.7	382	0.2	7.9	4.3	60.9	0.02
8/11/2003	18:00	33.6	383	0.2	7.9	4.3	60.7	0.02
8/11/2003	18:15	33.5	384	0.2	7.9	4.3	60.4	0.02
8/11/2003	18:30	33.4	384	0.2	7.9	4.3	59.6	0.02
8/11/2003	18:45	33.3	385	0.2	7.9	4.2	59.1	0.02
8/11/2003	19:00	33.2	386	0.2	7.9	4.2	58.2	0.02
8/11/2003	19:15	33.0	386	0.2	7.9	4.1	57.3	0.02

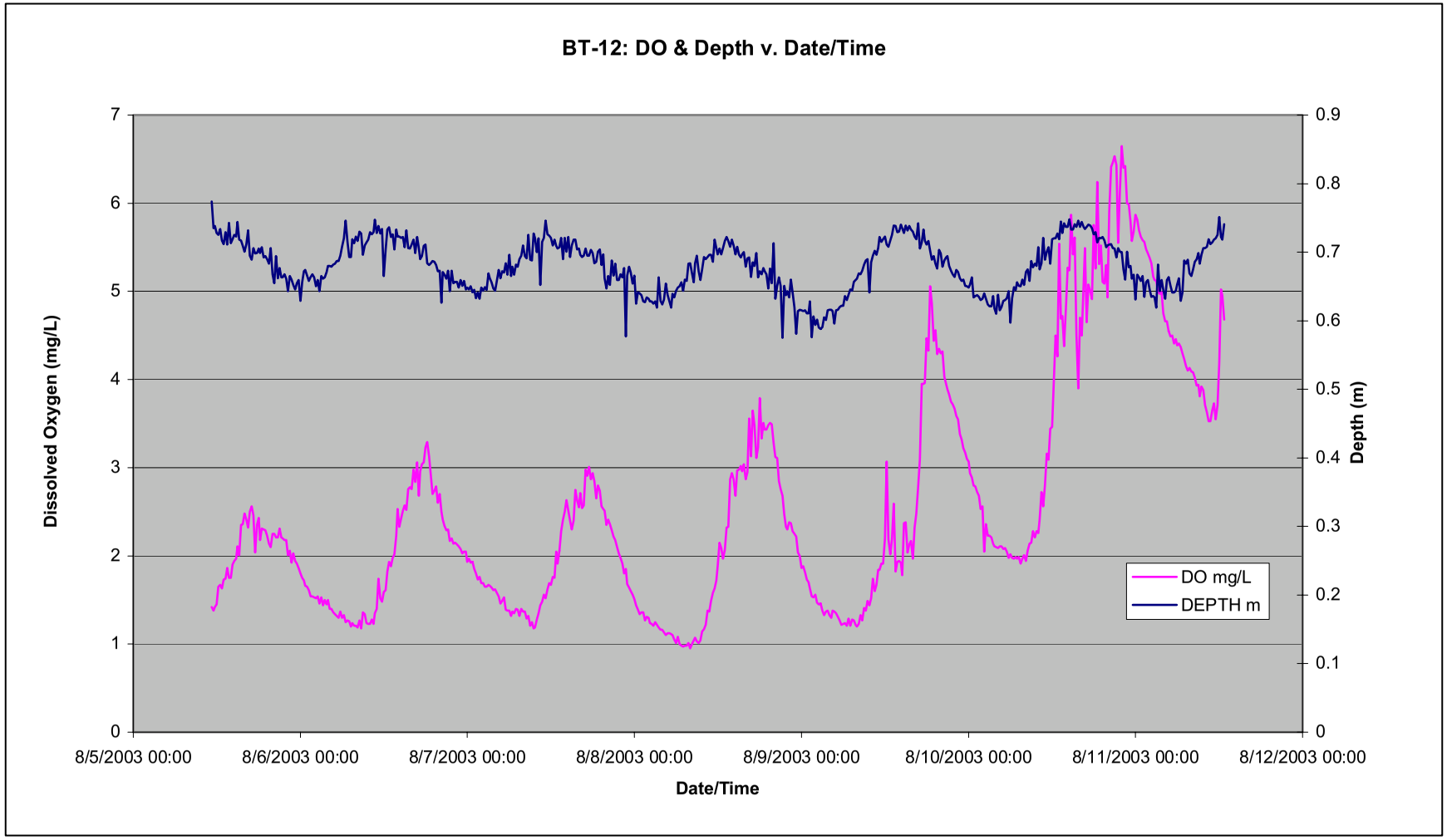
8/11/2003	19:30	32.9	387	0.2	7.9	4.1	56.3	0.02
8/11/2003	19:45	32.7	387	0.2	7.9	4.0	55.2	0.02
8/11/2003	20:00	32.6	387	0.2	7.9	3.9	54.6	0.02
8/11/2003	20:15	32.4	388	0.2	7.9	3.9	53.8	0.02
8/11/2003	20:30	32.2	388	0.2	7.9	3.8	52.9	0.01
8/11/2003	20:45	32.0	389	0.2	7.9	3.9	53.2	0.02
8/11/2003	21:00	31.8	389	0.2	7.9	3.9	52.7	0.01
8/11/2003	21:15	31.7	389	0.2	7.9	3.8	51.9	0.02
8/11/2003	21:30	31.5	390	0.2	7.9	3.8	51.0	0.01
8/11/2003	21:45	31.3	390	0.2	7.9	3.7	50.7	0.02
8/11/2003	22:00	31.2	391	0.2	7.9	3.7	50.4	0.01
8/11/2003	22:15	31.0	391	0.2	7.9	3.7	49.2	0.01
8/11/2003	22:30	30.8	391	0.2	7.9	3.7	49.3	0.01
8/11/2003	22:45	30.7	391	0.2	7.9	3.7	49.1	0.01
8/11/2003	23:00	30.5	392	0.2	7.9	3.6	48.2	0.01
8/11/2003	23:15	30.4	392	0.2	7.9	3.7	48.7	0.01
8/11/2003	23:30	30.3	392	0.2	7.9	3.7	48.9	0.01
8/11/2003	23:45	30.2	393	0.2	7.9	3.6	47.8	0.01
8/12/2003	0:00	30.1	393	0.2	7.9	3.6	47.7	0.01
8/12/2003	0:15	29.9	393	0.2	7.9	3.5	46.7	0.01
8/12/2003	0:30	29.8	394	0.2	7.9	3.6	47.2	0.01
8/12/2003	0:45	29.7	394	0.2	7.9	3.5	46.7	0.01
8/12/2003	1:00	29.6	394	0.2	7.9	3.6	47.1	0.01
8/12/2003	1:15	29.5	394	0.2	7.9	3.6	46.7	0.01
8/12/2003	1:30	29.4	395	0.2	8.0	3.5	46.5	0.01
8/12/2003	1:45	29.3	395	0.2	8.0	3.5	46.2	0.01
8/12/2003	2:00	29.2	395	0.2	8.0	3.6	46.3	0.01
8/12/2003	2:15	29.1	395	0.2	8.0	3.6	46.8	0.01
8/12/2003	2:30	28.9	395	0.2	8.0	3.6	46.2	0.01
8/12/2003	2:45	28.8	396	0.2	8.0	3.6	46.7	0.01
8/12/2003	3:00	28.7	396	0.2	8.0	3.6	46.3	0.01

8/12/2003	3:15	28.6	396	0.2	8.0	3.6	46.1	0.01
8/12/2003	3:30	28.5	396	0.2	8.0	3.6	46.2	0.01
8/12/2003	3:45	28.4	396	0.2	8.0	3.6	46.5	0.01
8/12/2003	4:00	28.3	397	0.2	8.0	3.6	46.2	0.01
8/12/2003	4:15	28.2	397	0.2	8.0	3.6	45.8	0.01
8/12/2003	4:30	28.1	397	0.2	8.0	3.5	45.3	0.01
8/12/2003	4:45	28.0	397	0.2	8.0	3.6	45.8	0.01
8/12/2003	5:00	27.9	397	0.2	8.0	3.6	45.9	0.01
8/12/2003	5:15	27.8	398	0.2	8.0	3.6	46.1	0.01
8/12/2003	5:30	27.8	398	0.2	8.0	3.7	46.5	0.01
8/12/2003	5:45	27.7	398	0.2	8.0	3.7	46.4	0.01
8/12/2003	6:00	27.7	398	0.2	8.0	3.7	46.4	0.01
8/12/2003	6:15	27.6	398	0.2	8.0	3.6	45.9	0.01
8/12/2003	6:30	27.6	399	0.2	8.0	3.6	46.2	0.01
8/12/2003	6:45	27.5	399	0.2	8.0	3.6	46.0	0.01
8/12/2003	7:00	27.5	399	0.2	8.0	3.7	46.3	0.01
8/12/2003	7:15	27.5	400	0.2	8.0	3.6	45.9	0.01
8/12/2003	7:30	27.4	400	0.2	8.0	3.6	46.1	0.01
8/12/2003	7:45	27.4	400	0.2	8.0	3.7	46.7	0.01
8/12/2003	8:00	27.4	400	0.2	8.0	3.7	46.9	0.01
8/12/2003	8:15	27.3	401	0.2	8.0	3.7	46.6	0.01
8/12/2003	8:30	27.3	401	0.2	8.0	3.7	47.0	0.01
8/12/2003	8:45	27.3	401	0.2	8.0	3.7	46.9	0.01
8/12/2003	9:00	27.2	402	0.2	8.0	3.6	45.0	0.01
8/12/2003	9:15	27.1	402	0.2	8.0	4.1	51.6	0.01
8/12/2003	9:30	26.7	403	0.2	8.1	4.6	57.1	0.01
8/12/2003	9:45	26.2	403	0.2	8.1	5.2	64.3	.
8/12/2003	10:00	25.1	594	0.3	8.9	7.1	85.9	.


BT-12: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
0
1
2
3
4
5
6
7
29.5
30
30.5
31
31.5
32
32.5
8/5/2003 00:00
8/6/2003 00:00
8/7/2003 00:00
8/8/2003 00:00
8/9/2003 00:00
8/10/2003 00:00
8/11/2003 00:00
8/12/2003 00:00
DO mg/L
Temp øC


BT-12: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
pH
Date/Time
DO mg/L
pH Units
0
1
2
3
4
5
6
7
6.9
7
7.1
7.2
7.3
7.4
7.5
7.6
7.7
8/5/2003 00:00
8/6/2003 00:00
8/7/2003 00:00
8/8/2003 00:00
8/9/2003 00:00
8/10/2003 00:00
8/11/2003 00:00
8/12/2003 00:00


BT-12: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
0
1
2
3
4
5
6
7
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
8/5/2003 00:00
8/6/2003 00:00
8/7/2003 00:00
8/8/2003 00:00
8/9/2003 00:00
8/10/2003 00:00
8/11/2003 00:00
8/12/2003 00:00
DO mg/L
SpCond æS/cm


BT-12: DO & Depth v. Date/Time
Dissolved Oxygen (mg/L)
Depth (m)
Date/Time
DO mg/L
DEPTH m
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
8/5/2003 00:00
8/6/2003 00:00
8/7/2003 00:00
8/8/2003 00:00
8/9/2003 00:00
8/10/2003 00:00
8/11/2003 00:00
8/12/2003 00:00

MiniSonde 4a 39003
Log File Name : BT12 080403
Setup Date (MMDDYY) : 080403
Setup Time (HHMMSS) : 102318
Starting Date (MMDDYY) : 080403
Starting Time (HHMMSS) : 235959
Stopping Date (MMDDYY) : 081103
Stopping Time (HHMMSS) : 235959
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS	Temp øC	pH Units	SpCond mS/cm	Sal ppt	DO% Sat	DO mg/l	Depth meters
8/5/2003	11:14:59	30.0	7.0	0.273	0.1	18.8	1.4	0.77
8/5/2003	11:29:59	29.9	7.0	0.273	0.1	18.3	1.4	0.74
8/5/2003	11:44:59	30.0	7.1	0.273	0.1	18.8	1.4	0.74
8/5/2003	11:59:59	30.0	7.1	0.273	0.1	19.2	1.5	0.73
8/5/2003	12:14:59	30.2	7.1	0.273	0.1	22.0	1.7	0.73
8/5/2003	12:29:59	30.2	7.1	0.273	0.1	22.3	1.7	0.73
8/5/2003	12:44:59	30.2	7.1	0.273	0.1	21.6	1.6	0.72
8/5/2003	12:59:59	30.3	7.1	0.273	0.1	23.0	1.7	0.71
8/5/2003	13:14:59	30.3	7.1	0.273	0.1	23.2	1.7	0.73
8/5/2003	13:29:59	30.5	7.1	0.274	0.1	24.8	1.9	0.71
8/5/2003	13:44:59	30.5	7.1	0.275	0.1	23.4	1.8	0.74
8/5/2003	13:59:59	30.4	7.1	0.274	0.1	23.3	1.8	0.71
8/5/2003	14:14:59	30.6	7.1	0.274	0.1	25.5	1.9	0.72
8/5/2003	14:29:59	30.6	7.1	0.275	0.1	25.9	1.9	0.73

8/5/2003	14:44:59	30.6	7.1	0.275	0.1	26.4	2.0	0.72
8/5/2003	14:59:59	30.8	7.1	0.274	0.1	28.4	2.1	0.74
8/5/2003	15:14:59	30.7	7.1	0.275	0.1	27.0	2.0	0.72
8/5/2003	15:29:59	30.8	7.1	0.275	0.1	31.5	2.4	0.72
8/5/2003	15:44:59	30.8	7.1	0.274	0.1	31.7	2.4	0.71
8/5/2003	15:59:59	30.9	7.1	0.275	0.1	33.3	2.5	0.70
8/5/2003	16:14:59	30.9	7.1	0.275	0.1	32.4	2.4	0.71
8/5/2003	16:29:59	30.9	7.1	0.275	0.1	31.2	2.3	0.73
8/5/2003	16:44:59	31.0	7.1	0.275	0.1	33.7	2.5	0.70
8/5/2003	16:59:59	31.1	7.1	0.276	0.1	34.5	2.6	0.69
8/5/2003	17:14:59	31.1	7.1	0.276	0.1	33.2	2.5	0.71
8/5/2003	17:29:59	30.8	7.1	0.276	0.1	27.4	2.0	0.70
8/5/2003	17:44:59	31.1	7.1	0.278	0.1	31.7	2.4	0.70
8/5/2003	17:59:59	31.0	7.1	0.277	0.1	32.8	2.4	0.71
8/5/2003	18:14:59	31.0	7.1	0.277	0.1	29.3	2.2	0.70
8/5/2003	18:29:59	30.9	7.1	0.278	0.1	31.1	2.3	0.71
8/5/2003	18:44:59	30.9	7.1	0.278	0.1	31.0	2.3	0.69
8/5/2003	18:59:59	30.8	7.1	0.282	0.1	30.8	2.3	0.69
8/5/2003	19:14:59	30.8	7.1	0.283	0.1	30.0	2.2	0.69
8/5/2003	19:29:59	30.7	7.1	0.287	0.1	28.7	2.1	0.68
8/5/2003	19:44:59	30.7	7.1	0.288	0.1	28.2	2.1	0.71
8/5/2003	19:59:59	30.7	7.1	0.292	0.1	30.1	2.3	0.67
8/5/2003	20:14:59	30.7	7.1	0.296	0.1	30.1	2.3	0.66
8/5/2003	20:29:59	30.6	7.1	0.296	0.1	29.6	2.2	0.69
8/5/2003	20:44:59	30.6	7.1	0.299	0.1	29.6	2.2	0.66
8/5/2003	20:59:59	30.5	7.1	0.304	0.2	30.9	2.3	0.68
8/5/2003	21:14:59	30.5	7.1	0.305	0.2	29.6	2.2	0.66
8/5/2003	21:29:59	30.5	7.1	0.306	0.2	29.4	2.2	0.66
8/5/2003	21:44:59	30.4	7.1	0.306	0.2	29.1	2.2	0.67
8/5/2003	21:59:59	30.4	7.1	0.307	0.2	29.1	2.2	0.66
8/5/2003	22:14:59	30.3	7.1	0.306	0.2	26.8	2.0	0.64

8/5/2003	22:29:59	30.3	7.1	0.307	0.2	27.5	2.1	0.67
8/5/2003	22:44:59	30.3	7.1	0.307	0.2	25.5	1.9	0.66
8/5/2003	22:59:59	30.2	7.1	0.309	0.2	27.0	2.0	0.65
8/5/2003	23:14:59	30.2	7.1	0.309	0.2	25.8	1.9	0.65
8/5/2003	23:29:59	30.2	7.1	0.31	0.2	25.4	1.9	0.66
8/5/2003	23:44:59	30.2	7.1	0.31	0.2	24.7	1.9	0.66
8/5/2003	23:59:59	30.1	7.1	0.31	0.2	23.9	1.8	0.63
8/6/2003	0:14:59	30.1	7.1	0.31	0.2	23.2	1.8	0.66
8/6/2003	0:29:59	30.1	7.1	0.311	0.2	22.8	1.7	0.67
8/6/2003	0:44:59	30.1	7.1	0.311	0.2	22.1	1.7	0.67
8/6/2003	0:59:59	30.0	7.1	0.311	0.2	21.8	1.7	0.67
8/6/2003	1:14:59	30.1	7.1	0.311	0.2	21.3	1.6	0.66
8/6/2003	1:29:59	30.0	7.1	0.311	0.2	20.4	1.5	0.66
8/6/2003	1:44:59	30.0	7.1	0.311	0.2	20.4	1.5	0.67
8/6/2003	1:59:59	30.0	7.1	0.311	0.2	20.3	1.5	0.66
8/6/2003	2:14:59	30.0	7.1	0.311	0.2	20.2	1.5	0.65
8/6/2003	2:29:59	30.0	7.1	0.311	0.2	20.4	1.5	0.66
8/6/2003	2:44:59	29.9	7.1	0.311	0.2	19.3	1.5	0.64
8/6/2003	2:59:59	29.9	7.1	0.311	0.2	20.3	1.5	0.67
8/6/2003	3:14:59	29.9	7.1	0.311	0.2	19.1	1.4	0.66
8/6/2003	3:29:59	29.9	7.1	0.311	0.2	19.8	1.5	0.66
8/6/2003	3:44:59	29.9	7.1	0.311	0.2	19.2	1.5	0.67
8/6/2003	3:59:59	29.9	7.1	0.311	0.2	19.8	1.5	0.68
8/6/2003	4:14:59	29.9	7.1	0.311	0.2	18.5	1.4	0.68
8/6/2003	4:29:59	29.9	7.1	0.313	0.2	18.5	1.4	0.68
8/6/2003	4:44:59	29.9	7.1	0.313	0.2	18.0	1.4	0.68
8/6/2003	4:59:59	29.9	7.1	0.314	0.2	17.8	1.3	0.68
8/6/2003	5:14:59	29.9	7.1	0.313	0.2	17.5	1.3	0.69
8/6/2003	5:29:59	29.9	7.1	0.312	0.2	17.1	1.3	0.69
8/6/2003	5:44:59	29.8	7.1	0.312	0.2	18.1	1.4	0.70
8/6/2003	5:59:59	29.8	7.1	0.312	0.2	17.1	1.3	0.71

8/6/2003	6:14:59	29.8	7.1	0.312	0.2	17.6	1.3	0.72
8/6/2003	6:29:59	29.8	7.1	0.312	0.2	16.5	1.3	0.75
8/6/2003	6:44:59	29.8	7.1	0.311	0.2	16.7	1.3	0.72
8/6/2003	6:59:59	29.8	7.1	0.311	0.2	16.6	1.3	0.69
8/6/2003	7:14:59	29.8	7.1	0.311	0.2	15.8	1.2	0.69
8/6/2003	7:29:59	29.8	7.1	0.311	0.2	16.4	1.2	0.72
8/6/2003	7:44:59	29.8	7.1	0.31	0.2	16.0	1.2	0.71
8/6/2003	7:59:59	29.8	7.1	0.31	0.2	15.9	1.2	0.72
8/6/2003	8:14:59	29.8	7.1	0.31	0.2	15.7	1.2	0.72
8/6/2003	8:29:59	29.8	7.1	0.31	0.2	16.8	1.3	0.73
8/6/2003	8:44:59	29.9	7.1	0.31	0.2	15.6	1.2	0.73
8/6/2003	8:59:59	29.9	7.1	0.31	0.2	18.0	1.4	0.70
8/6/2003	9:14:59	29.9	7.1	0.309	0.2	17.8	1.3	0.71
8/6/2003	9:29:59	29.9	7.1	0.309	0.2	16.4	1.2	0.71
8/6/2003	9:44:59	29.9	7.1	0.309	0.2	16.3	1.2	0.72
8/6/2003	9:59:59	29.9	7.1	0.309	0.2	16.3	1.2	0.73
8/6/2003	10:14:59	29.9	7.1	0.309	0.2	16.9	1.3	0.73
8/6/2003	10:29:59	29.9	7.1	0.31	0.2	16.3	1.2	0.73
8/6/2003	10:44:59	30.0	7.1	0.31	0.2	17.9	1.4	0.75
8/6/2003	10:59:59	30.0	7.1	0.31	0.2	18.5	1.4	0.73
8/6/2003	11:14:59	30.3	7.1	0.31	0.2	23.1	1.7	0.74
8/6/2003	11:29:59	30.1	7.1	0.31	0.2	20.2	1.5	0.73
8/6/2003	11:44:59	30.1	7.1	0.309	0.2	19.7	1.5	0.73
8/6/2003	11:59:59	30.2	7.1	0.308	0.2	21.1	1.6	0.67
8/6/2003	12:14:59	30.2	7.1	0.309	0.2	21.3	1.6	0.70
8/6/2003	12:29:59	30.4	7.1	0.31	0.2	24.3	1.8	0.73
8/6/2003	12:44:59	30.4	7.1	0.309	0.2	25.7	1.9	0.74
8/6/2003	12:59:59	30.4	7.1	0.309	0.2	25.1	1.9	0.72
8/6/2003	13:14:59	30.5	7.1	0.309	0.2	26.5	2.0	0.73
8/6/2003	13:29:59	30.5	7.1	0.309	0.2	27.0	2.0	0.70
8/6/2003	13:44:59	30.6	7.2	0.309	0.2	29.9	2.2	0.73

8/6/2003	13:59:59	31.0	7.2	0.312	0.2	34.0	2.5	0.72
8/6/2003	14:14:59	30.8	7.2	0.31	0.2	31.2	2.3	0.72
8/6/2003	14:29:59	30.9	7.2	0.312	0.2	32.5	2.4	0.72
8/6/2003	14:44:59	30.9	7.2	0.311	0.2	33.7	2.5	0.72
8/6/2003	14:59:59	31.0	7.2	0.311	0.2	34.6	2.6	0.71
8/6/2003	15:14:59	31.0	7.2	0.312	0.2	34.0	2.5	0.73
8/6/2003	15:29:59	31.0	7.2	0.313	0.2	37.1	2.8	0.71
8/6/2003	15:44:59	31.1	7.2	0.314	0.2	37.6	2.8	0.71
8/6/2003	15:59:59	31.1	7.2	0.315	0.2	37.3	2.8	0.71
8/6/2003	16:14:59	31.3	7.2	0.314	0.2	40.4	3.0	0.72
8/6/2003	16:29:59	31.2	7.2	0.314	0.2	38.4	2.8	0.70
8/6/2003	16:44:59	31.3	7.2	0.315	0.2	41.5	3.1	0.72
8/6/2003	16:59:59	31.2	7.2	0.314	0.2	36.2	2.7	0.71
8/6/2003	17:14:59	31.4	7.2	0.315	0.2	40.1	3.0	0.69
8/6/2003	17:29:59	31.4	7.2	0.316	0.2	41.3	3.0	0.69
8/6/2003	17:44:59	31.4	7.2	0.316	0.2	41.5	3.1	0.71
8/6/2003	17:59:59	31.5	7.2	0.316	0.2	43.9	3.2	0.71
8/6/2003	18:14:59	31.5	7.2	0.316	0.2	44.6	3.3	0.68
8/6/2003	18:29:59	31.4	7.2	0.317	0.2	42.5	3.1	0.68
8/6/2003	18:44:59	31.4	7.2	0.317	0.2	39.6	2.9	0.68
8/6/2003	18:59:59	31.3	7.2	0.317	0.2	36.6	2.7	0.69
8/6/2003	19:14:59	31.3	7.2	0.317	0.2	37.1	2.7	0.69
8/6/2003	19:29:59	31.2	7.2	0.317	0.2	37.8	2.8	0.68
8/6/2003	19:44:59	31.2	7.2	0.317	0.2	35.2	2.6	0.67
8/6/2003	19:59:59	31.1	7.2	0.317	0.2	36.4	2.7	0.67
8/6/2003	20:14:59	31.1	7.2	0.319	0.2	33.8	2.5	0.63
8/6/2003	20:29:59	31.1	7.2	0.318	0.2	32.6	2.4	0.67
8/6/2003	20:44:59	31.0	7.2	0.32	0.2	31.6	2.3	0.67
8/6/2003	20:59:59	31.0	7.2	0.32	0.2	30.9	2.3	0.66
8/6/2003	21:14:59	31.0	7.2	0.321	0.2	31.0	2.3	0.67
8/6/2003	21:29:59	31.0	7.2	0.321	0.2	29.2	2.2	0.64

8/6/2003	21:44:59	30.9	7.2	0.321	0.2	29.6	2.2	0.67
8/6/2003	21:59:59	30.9	7.2	0.321	0.2	28.8	2.1	0.66
8/6/2003	22:14:59	30.8	7.2	0.321	0.2	28.9	2.2	0.66
8/6/2003	22:29:59	30.8	7.2	0.321	0.2	28.6	2.1	0.66
8/6/2003	22:44:59	30.8	7.2	0.321	0.2	28.4	2.1	0.65
8/6/2003	22:59:59	30.7	7.2	0.321	0.2	27.9	2.1	0.66
8/6/2003	23:14:59	30.7	7.2	0.321	0.2	27.2	2.0	0.65
8/6/2003	23:29:59	30.7	7.2	0.321	0.2	27.5	2.1	0.66
8/6/2003	23:44:59	30.6	7.2	0.322	0.2	27.4	2.1	0.65
8/6/2003	23:59:59	30.6	7.2	0.322	0.2	25.8	1.9	0.65
8/7/2003	0:14:59	30.6	7.2	0.322	0.2	26.4	2.0	0.65
8/7/2003	0:29:59	30.5	7.2	0.322	0.2	25.7	1.9	0.65
8/7/2003	0:44:59	30.5	7.2	0.322	0.2	25.8	1.9	0.64
8/7/2003	0:59:59	30.5	7.2	0.323	0.2	24.7	1.9	0.65
8/7/2003	1:14:59	30.5	7.2	0.322	0.2	24.1	1.8	0.63
8/7/2003	1:29:59	30.4	7.2	0.324	0.2	23.1	1.7	0.64
8/7/2003	1:44:59	30.4	7.1	0.323	0.2	23.5	1.8	0.63
8/7/2003	1:59:59	30.4	7.2	0.323	0.2	22.5	1.7	0.65
8/7/2003	2:14:59	30.3	7.2	0.323	0.2	22.5	1.7	0.64
8/7/2003	2:29:59	30.3	7.2	0.323	0.2	21.9	1.7	0.65
8/7/2003	2:44:59	30.3	7.1	0.323	0.2	21.9	1.7	0.65
8/7/2003	2:59:59	30.3	7.2	0.323	0.2	22.3	1.7	0.67
8/7/2003	3:14:59	30.3	7.2	0.323	0.2	22.1	1.7	0.66
8/7/2003	3:29:59	30.2	7.2	0.323	0.2	21.8	1.6	0.66
8/7/2003	3:44:59	30.2	7.2	0.323	0.2	21.4	1.6	0.65
8/7/2003	3:59:59	30.2	7.1	0.323	0.2	21.6	1.6	0.64
8/7/2003	4:14:59	30.2	7.1	0.323	0.2	20.9	1.6	0.66
8/7/2003	4:29:59	30.2	7.1	0.323	0.2	20.4	1.5	0.67
8/7/2003	4:44:59	30.1	7.1	0.323	0.2	19.4	1.5	0.66
8/7/2003	4:59:59	30.1	7.1	0.323	0.2	19.8	1.5	0.67
8/7/2003	5:14:59	30.1	7.1	0.324	0.2	20.3	1.5	0.67

8/7/2003	5:29:59	30.1	7.1	0.325	0.2	18.4	1.4	0.68
8/7/2003	5:44:59	30.1	7.1	0.325	0.2	18.3	1.4	0.67
8/7/2003	5:59:59	30.1	7.1	0.325	0.2	18.3	1.4	0.70
8/7/2003	6:14:59	30.1	7.1	0.325	0.2	17.6	1.3	0.67
8/7/2003	6:29:59	30.1	7.1	0.325	0.2	18.1	1.4	0.68
8/7/2003	6:44:59	30.1	7.1	0.325	0.2	17.8	1.4	0.67
8/7/2003	6:59:59	30.1	7.1	0.324	0.2	18.6	1.4	0.68
8/7/2003	7:14:59	30.1	7.1	0.324	0.2	18.4	1.4	0.68
8/7/2003	7:29:59	30.1	7.1	0.324	0.2	17.5	1.3	0.69
8/7/2003	7:44:59	30.1	7.1	0.324	0.2	18.6	1.4	0.70
8/7/2003	7:59:59	30.1	7.1	0.324	0.2	18.1	1.4	0.71
8/7/2003	8:14:59	30.1	7.1	0.324	0.2	18.1	1.4	0.69
8/7/2003	8:29:59	30.0	7.1	0.324	0.2	17.1	1.3	0.69
8/7/2003	8:44:59	30.0	7.1	0.325	0.2	17.4	1.3	0.73
8/7/2003	8:59:59	30.0	7.1	0.325	0.2	16.0	1.2	0.69
8/7/2003	9:14:59	30.0	7.1	0.325	0.2	16.5	1.3	0.69
8/7/2003	9:29:59	30.0	7.1	0.325	0.2	15.6	1.2	0.73
8/7/2003	9:44:59	30.0	7.1	0.326	0.2	15.7	1.2	0.72
8/7/2003	9:59:59	30.0	7.1	0.327	0.2	16.9	1.3	0.70
8/7/2003	10:14:59	30.0	7.1	0.327	0.2	17.9	1.4	0.72
8/7/2003	10:29:59	30.0	7.2	0.328	0.2	19.0	1.4	0.65
8/7/2003	10:44:59	30.1	7.2	0.328	0.2	19.7	1.5	0.72
8/7/2003	10:59:59	30.2	7.2	0.33	0.2	20.7	1.6	0.72
8/7/2003	11:14:59	30.2	7.2	0.33	0.2	20.2	1.5	0.75
8/7/2003	11:29:59	30.3	7.2	0.332	0.2	21.6	1.6	0.73
8/7/2003	11:44:59	30.4	7.2	0.333	0.2	22.6	1.7	0.72
8/7/2003	11:59:59	30.4	7.2	0.333	0.2	22.3	1.7	0.72
8/7/2003	12:14:59	30.5	7.2	0.334	0.2	23.5	1.8	0.71
8/7/2003	12:29:59	30.5	7.2	0.335	0.2	23.4	1.8	0.72
8/7/2003	12:44:59	30.6	7.2	0.333	0.2	27.5	2.1	0.71
8/7/2003	12:59:59	30.6	7.2	0.334	0.2	25.6	1.9	0.71

8/7/2003	13:14:59	30.7	7.2	0.335	0.2	27.6	2.1	0.71
8/7/2003	13:29:59	30.8	7.2	0.335	0.2	30.6	2.3	0.72
8/7/2003	13:44:59	30.8	7.2	0.335	0.2	32.4	2.4	0.69
8/7/2003	13:59:59	30.9	7.2	0.335	0.2	33.7	2.5	0.72
8/7/2003	14:14:59	30.9	7.2	0.335	0.2	35.4	2.6	0.70
8/7/2003	14:29:59	30.9	7.2	0.335	0.2	33.7	2.5	0.72
8/7/2003	14:44:59	30.9	7.2	0.335	0.2	32.2	2.4	0.69
8/7/2003	14:59:59	30.8	7.2	0.336	0.2	30.9	2.3	0.71
8/7/2003	15:14:59	30.8	7.2	0.336	0.2	32.2	2.4	0.72
8/7/2003	15:29:59	31.0	7.2	0.336	0.2	37.1	2.8	0.72
8/7/2003	15:44:59	31.0	7.2	0.335	0.2	35.4	2.6	0.70
8/7/2003	15:59:59	31.0	7.2	0.336	0.2	34.3	2.6	0.71
8/7/2003	16:14:59	31.0	7.2	0.336	0.2	36.6	2.7	0.70
8/7/2003	16:29:59	31.0	7.2	0.337	0.2	34.3	2.5	0.69
8/7/2003	16:44:59	31.0	7.2	0.337	0.2	34.7	2.6	0.70
8/7/2003	16:59:59	31.1	7.2	0.337	0.2	40.2	3.0	0.71
8/7/2003	17:14:59	31.0	7.2	0.337	0.2	39.3	2.9	0.70
8/7/2003	17:29:59	31.0	7.2	0.336	0.2	40.5	3.0	0.70
8/7/2003	17:44:59	31.0	7.2	0.336	0.2	38.7	2.9	0.70
8/7/2003	17:59:59	31.0	7.2	0.332	0.2	39.7	2.9	0.70
8/7/2003	18:14:59	31.0	7.2	0.323	0.2	38.4	2.9	0.68
8/7/2003	18:29:59	30.9	7.2	0.338	0.2	35.7	2.7	0.69
8/7/2003	18:44:59	30.9	7.2	0.337	0.2	37.6	2.8	0.70
8/7/2003	18:59:59	31.0	7.2	0.335	0.2	36.9	2.7	0.70
8/7/2003	19:14:59	30.9	7.2	0.338	0.2	34.5	2.6	0.68
8/7/2003	19:29:59	30.8	7.2	0.339	0.2	34.0	2.5	0.70
8/7/2003	19:44:59	30.8	7.2	0.337	0.2	33.7	2.5	0.66
8/7/2003	19:59:59	30.8	7.2	0.34	0.2	31.6	2.4	0.65
8/7/2003	20:14:59	30.7	7.2	0.339	0.2	32.3	2.4	0.67
8/7/2003	20:29:59	30.7	7.2	0.338	0.2	31.7	2.4	0.65
8/7/2003	20:44:59	30.6	7.2	0.336	0.2	30.6	2.3	0.69

8/7/2003	20:59:59	30.6	7.2	0.333	0.2	29.8	2.2	0.67
8/7/2003	21:14:59	30.6	7.2	0.333	0.2	29.2	2.2	0.68
8/7/2003	21:29:59	30.6	7.2	0.331	0.2	28.2	2.1	0.66
8/7/2003	21:44:59	30.6	7.2	0.332	0.2	27.2	2.0	0.66
8/7/2003	21:59:59	30.5	7.2	0.332	0.2	26.5	2.0	0.67
8/7/2003	22:14:59	30.5	7.2	0.332	0.2	25.5	1.9	0.66
8/7/2003	22:29:59	30.5	7.2	0.332	0.2	24.1	1.8	0.68
8/7/2003	22:44:59	30.4	7.2	0.332	0.2	24.6	1.9	0.58
8/7/2003	22:59:59	30.5	7.2	0.332	0.2	22.5	1.7	0.67
8/7/2003	23:14:59	30.4	7.2	0.332	0.2	21.9	1.6	0.68
8/7/2003	23:29:59	30.4	7.2	0.331	0.2	21.3	1.6	0.67
8/7/2003	23:44:59	30.4	7.2	0.331	0.2	20.9	1.6	0.65
8/7/2003	23:59:59	30.4	7.2	0.331	0.2	20.1	1.5	0.67
8/8/2003	0:14:59	30.3	7.2	0.33	0.2	19.2	1.4	0.63
8/8/2003	0:29:59	30.3	7.2	0.33	0.2	18.5	1.4	0.64
8/8/2003	0:44:59	30.3	7.2	0.33	0.2	17.9	1.3	0.64
8/8/2003	0:59:59	30.3	7.2	0.331	0.2	18.1	1.4	0.64
8/8/2003	1:14:59	30.3	7.2	0.331	0.2	18.0	1.4	0.63
8/8/2003	1:29:59	30.3	7.2	0.331	0.2	16.9	1.3	0.63
8/8/2003	1:44:59	30.2	7.2	0.331	0.2	17.5	1.3	0.63
8/8/2003	1:59:59	30.2	7.2	0.331	0.2	17.3	1.3	0.63
8/8/2003	2:14:59	30.2	7.2	0.331	0.2	16.5	1.2	0.63
8/8/2003	2:29:59	30.2	7.2	0.331	0.2	16.4	1.2	0.63
8/8/2003	2:44:59	30.2	7.2	0.332	0.2	16.0	1.2	0.63
8/8/2003	2:59:59	30.1	7.2	0.332	0.2	16.6	1.3	0.63
8/8/2003	3:14:59	30.1	7.2	0.331	0.2	16.2	1.2	0.62
8/8/2003	3:29:59	30.1	7.2	0.332	0.2	15.7	1.2	0.66
8/8/2003	3:44:59	30.1	7.2	0.332	0.2	15.4	1.2	0.63
8/8/2003	3:59:59	30.1	7.2	0.332	0.2	15.4	1.2	0.62
8/8/2003	4:14:59	30.0	7.2	0.332	0.2	15.0	1.1	0.63
8/8/2003	4:29:59	30.0	7.2	0.332	0.2	14.5	1.1	0.65

8/8/2003	4:44:59	30.0	7.2	0.332	0.2	14.8	1.1	0.64
8/8/2003	4:59:59	29.9	7.2	0.332	0.2	14.8	1.1	0.63
8/8/2003	5:14:59	29.9	7.2	0.332	0.2	14.7	1.1	0.62
8/8/2003	5:29:59	29.9	7.2	0.332	0.2	14.5	1.1	0.64
8/8/2003	5:44:59	29.9	7.2	0.332	0.2	13.9	1.1	0.63
8/8/2003	5:59:59	29.8	7.2	0.332	0.2	13.3	1.0	0.64
8/8/2003	6:14:59	29.8	7.2	0.332	0.2	14.3	1.1	0.65
8/8/2003	6:29:59	29.8	7.2	0.332	0.2	13.2	1.0	0.65
8/8/2003	6:44:59	29.8	7.2	0.332	0.2	12.9	1.0	0.66
8/8/2003	6:59:59	29.8	7.2	0.332	0.2	12.8	1.0	0.64
8/8/2003	7:14:59	29.7	7.2	0.332	0.2	12.9	1.0	0.66
8/8/2003	7:29:59	29.7	7.2	0.332	0.2	12.9	1.0	0.66
8/8/2003	7:44:59	29.7	7.2	0.333	0.2	13.3	1.0	0.68
8/8/2003	7:59:59	29.7	7.2	0.333	0.2	12.5	1.0	0.68
8/8/2003	8:14:59	29.8	7.2	0.333	0.2	13.2	1.0	0.67
8/8/2003	8:29:59	29.8	7.2	0.333	0.2	13.7	1.0	0.66
8/8/2003	8:44:59	29.8	7.2	0.333	0.2	14.1	1.1	0.68
8/8/2003	8:59:59	29.8	7.2	0.334	0.2	13.6	1.0	0.70
8/8/2003	9:14:59	29.8	7.2	0.334	0.2	13.3	1.0	0.67
8/8/2003	9:29:59	29.9	7.2	0.334	0.2	13.7	1.0	0.66
8/8/2003	9:44:59	29.9	7.2	0.334	0.2	15.0	1.1	0.68
8/8/2003	9:59:59	29.9	7.2	0.333	0.2	15.5	1.2	0.69
8/8/2003	10:14:59	30.0	7.2	0.334	0.2	16.2	1.2	0.69
8/8/2003	10:29:59	30.0	7.2	0.334	0.2	18.3	1.4	0.69
8/8/2003	10:44:59	30.1	7.2	0.333	0.2	18.2	1.4	0.70
8/8/2003	10:59:59	30.1	7.2	0.333	0.2	19.7	1.5	0.70
8/8/2003	11:14:59	30.1	7.2	0.333	0.2	21.0	1.6	0.69
8/8/2003	11:29:59	30.2	7.2	0.333	0.2	21.7	1.6	0.72
8/8/2003	11:44:59	30.3	7.2	0.334	0.2	22.9	1.7	0.71
8/8/2003	11:59:59	30.3	7.2	0.333	0.2	25.0	1.9	0.70
8/8/2003	12:14:59	30.5	7.2	0.333	0.2	28.7	2.2	0.71

8/8/2003	12:29:59	30.5	7.2	0.333	0.2	27.9	2.1	0.70
8/8/2003	12:44:59	30.5	7.2	0.333	0.2	26.4	2.0	0.71
8/8/2003	12:59:59	30.5	7.2	0.332	0.2	27.7	2.1	0.72
8/8/2003	13:14:59	30.7	7.2	0.333	0.2	31.2	2.3	0.72
8/8/2003	13:29:59	30.7	7.2	0.333	0.2	31.2	2.3	0.72
8/8/2003	13:44:59	31.0	7.2	0.333	0.2	38.6	2.9	0.71
8/8/2003	13:59:59	31.0	7.2	0.332	0.2	39.7	2.9	0.72
8/8/2003	14:14:59	31.4	7.3	0.332	0.2	38.9	2.9	0.71
8/8/2003	14:29:59	31.0	7.2	0.332	0.2	36.1	2.7	0.70
8/8/2003	14:44:59	31.3	7.3	0.332	0.2	40.2	3.0	0.71
8/8/2003	14:59:59	31.3	7.3	0.332	0.2	40.3	3.0	0.70
8/8/2003	15:14:59	31.2	7.2	0.333	0.2	40.8	3.0	0.69
8/8/2003	15:29:59	31.3	7.2	0.333	0.2	40.0	3.0	0.70
8/8/2003	15:44:59	31.3	7.3	0.332	0.2	41.2	3.0	0.70
8/8/2003	15:59:59	31.2	7.2	0.333	0.2	38.9	2.9	0.68
8/8/2003	16:14:59	31.3	7.2	0.333	0.2	39.9	3.0	0.69
8/8/2003	16:29:59	31.7	7.3	0.333	0.2	48.6	3.6	0.69
8/8/2003	16:44:59	31.5	7.2	0.333	0.2	42.5	3.1	0.66
8/8/2003	16:59:59	31.7	7.3	0.333	0.2	49.8	3.7	0.69
8/8/2003	17:14:59	31.6	7.3	0.334	0.2	47.3	3.5	0.68
8/8/2003	17:29:59	31.6	7.3	0.334	0.2	42.3	3.1	0.70
8/8/2003	17:44:59	31.6	7.3	0.334	0.2	44.0	3.2	0.66
8/8/2003	17:59:59	31.8	7.3	0.333	0.2	51.7	3.8	0.67
8/8/2003	18:14:59	31.6	7.3	0.334	0.2	45.3	3.3	0.67
8/8/2003	18:29:59	31.7	7.3	0.334	0.2	47.9	3.5	0.68
8/8/2003	18:44:59	31.7	7.3	0.334	0.2	46.7	3.4	0.67
8/8/2003	18:59:59	31.7	7.3	0.335	0.2	46.7	3.4	0.67
8/8/2003	19:14:59	31.6	7.3	0.335	0.2	47.4	3.5	0.65
8/8/2003	19:29:59	31.6	7.3	0.335	0.2	47.7	3.5	0.68
8/8/2003	19:44:59	31.5	7.3	0.335	0.2	47.5	3.5	0.66
8/8/2003	19:59:59	31.5	7.3	0.335	0.2	44.6	3.3	0.71

8/8/2003	20:14:59	31.5	7.3	0.336	0.2	42.5	3.1	0.63
8/8/2003	20:29:59	31.4	7.3	0.337	0.2	42.3	3.1	0.65
8/8/2003	20:44:59	31.3	7.2	0.339	0.2	38.6	2.9	0.66
8/8/2003	20:59:59	31.3	7.2	0.341	0.2	37.3	2.8	0.65
8/8/2003	21:14:59	31.2	7.2	0.344	0.2	36.3	2.7	0.58
8/8/2003	21:29:59	31.2	7.2	0.346	0.2	33.3	2.5	0.65
8/8/2003	21:44:59	31.2	7.2	0.348	0.2	31.5	2.3	0.64
8/8/2003	21:59:59	31.2	7.2	0.351	0.2	31.0	2.3	0.64
8/8/2003	22:14:59	31.2	7.2	0.355	0.2	32.2	2.4	0.63
8/8/2003	22:29:59	31.2	7.2	0.357	0.2	32.1	2.4	0.66
8/8/2003	22:44:59	31.2	7.2	0.357	0.2	30.7	2.3	0.64
8/8/2003	22:59:59	31.1	7.2	0.357	0.2	30.4	2.3	0.62
8/8/2003	23:14:59	31.0	7.2	0.356	0.2	30.0	2.2	0.58
8/8/2003	23:29:59	31.0	7.2	0.355	0.2	27.5	2.0	0.61
8/8/2003	23:44:59	30.9	7.2	0.352	0.2	27.0	2.0	0.62
8/8/2003	23:59:59	30.9	7.2	0.352	0.2	25.0	1.9	0.62
8/9/2003	0:14:59	30.8	7.2	0.349	0.2	25.2	1.9	0.61
8/9/2003	0:29:59	30.7	7.2	0.348	0.2	24.3	1.8	0.62
8/9/2003	0:44:59	30.7	7.2	0.344	0.2	23.2	1.7	0.61
8/9/2003	0:59:59	30.6	7.2	0.345	0.2	22.7	1.7	0.61
8/9/2003	1:14:59	30.6	7.2	0.344	0.2	21.8	1.6	0.63
8/9/2003	1:29:59	30.5	7.2	0.345	0.2	20.6	1.5	0.58
8/9/2003	1:44:59	30.5	7.2	0.344	0.2	20.4	1.5	0.61
8/9/2003	1:59:59	30.4	7.2	0.341	0.2	20.9	1.6	0.59
8/9/2003	2:14:59	30.4	7.2	0.342	0.2	19.6	1.5	0.60
8/9/2003	2:29:59	30.4	7.2	0.34	0.2	19.4	1.5	0.59
8/9/2003	2:44:59	30.3	7.2	0.339	0.2	19.5	1.5	0.59
8/9/2003	2:59:59	30.3	7.2	0.343	0.2	18.4	1.4	0.59
8/9/2003	3:14:59	30.3	7.2	0.34	0.2	17.7	1.3	0.61
8/9/2003	3:29:59	30.2	7.2	0.341	0.2	18.2	1.4	0.60
8/9/2003	3:44:59	30.2	7.2	0.342	0.2	18.3	1.4	0.62

8/9/2003	3:59:59	30.2	7.2	0.342	0.2	17.7	1.3	0.62
8/9/2003	4:14:59	30.2	7.2	0.343	0.2	17.3	1.3	0.62
8/9/2003	4:29:59	30.2	7.2	0.342	0.2	18.4	1.4	0.61
8/9/2003	4:44:59	30.2	7.2	0.343	0.2	18.3	1.4	0.60
8/9/2003	4:59:59	30.2	7.2	0.343	0.2	17.9	1.4	0.62
8/9/2003	5:14:59	30.1	7.2	0.343	0.2	17.3	1.3	0.62
8/9/2003	5:29:59	30.1	7.2	0.344	0.2	16.9	1.3	0.62
8/9/2003	5:44:59	30.1	7.2	0.346	0.2	16.2	1.2	0.62
8/9/2003	5:59:59	30.1	7.2	0.347	0.2	16.3	1.2	0.62
8/9/2003	6:14:59	30.1	7.2	0.347	0.2	16.5	1.2	0.64
8/9/2003	6:29:59	30.1	7.2	0.348	0.2	16.1	1.2	0.63
8/9/2003	6:44:59	30.1	7.2	0.349	0.2	17.1	1.3	0.64
8/9/2003	6:59:59	30.1	7.2	0.349	0.2	16.1	1.2	0.65
8/9/2003	7:14:59	30.1	7.2	0.35	0.2	16.9	1.3	0.64
8/9/2003	7:29:59	30.1	7.2	0.35	0.2	16.9	1.3	0.66
8/9/2003	7:44:59	30.1	7.2	0.352	0.2	16.2	1.2	0.66
8/9/2003	7:59:59	30.1	7.2	0.352	0.2	15.9	1.2	0.66
8/9/2003	8:14:59	30.1	7.2	0.353	0.2	16.4	1.2	0.67
8/9/2003	8:29:59	30.2	7.2	0.355	0.2	17.6	1.3	0.67
8/9/2003	8:44:59	30.2	7.2	0.355	0.2	16.9	1.3	0.67
8/9/2003	8:59:59	30.2	7.2	0.356	0.2	18.8	1.4	0.68
8/9/2003	9:14:59	30.2	7.2	0.356	0.2	18.3	1.4	0.69
8/9/2003	9:29:59	30.2	7.2	0.357	0.2	19.7	1.5	0.69
8/9/2003	9:44:59	30.2	7.2	0.356	0.2	19.2	1.4	0.64
8/9/2003	9:59:59	30.3	7.2	0.355	0.2	20.3	1.5	0.69
8/9/2003	10:14:59	30.3	7.2	0.357	0.2	23.1	1.7	0.70
8/9/2003	10:29:59	30.3	7.2	0.357	0.2	21.3	1.6	0.70
8/9/2003	10:44:59	30.3	7.2	0.358	0.2	22.3	1.7	0.70
8/9/2003	10:59:59	30.4	7.2	0.357	0.2	24.5	1.8	0.71
8/9/2003	11:14:59	30.4	7.2	0.358	0.2	24.6	1.8	0.72
8/9/2003	11:29:59	30.5	7.2	0.358	0.2	25.5	1.9	0.72

8/9/2003	11:44:59	30.5	7.2	0.358	0.2	25.5	1.9	0.72
8/9/2003	11:59:59	30.6	7.2	0.357	0.2	29.4	2.2	0.72
8/9/2003	12:14:59	30.8	7.3	0.353	0.2	41.2	3.1	0.71
8/9/2003	12:29:59	30.9	7.3	0.354	0.2	29.5	2.2	0.71
8/9/2003	12:44:59	30.9	7.2	0.354	0.2	27.2	2.0	0.72
8/9/2003	12:59:59	31.2	7.3	0.351	0.2	29.6	2.2	0.73
8/9/2003	13:14:59	31.1	7.3	0.351	0.2	35.0	2.6	0.74
8/9/2003	13:29:59	31.1	7.2	0.35	0.2	24.6	1.8	0.74
8/9/2003	13:44:59	31.1	7.3	0.352	0.2	26.0	1.9	0.73
8/9/2003	13:59:59	31.1	7.3	0.351	0.2	26.2	1.9	0.73
8/9/2003	14:14:59	31.1	7.2	0.353	0.2	25.9	1.9	0.74
8/9/2003	14:29:59	31.2	7.2	0.352	0.2	24.1	1.8	0.74
8/9/2003	14:44:59	31.2	7.3	0.352	0.2	32.1	2.4	0.73
8/9/2003	14:59:59	31.3	7.3	0.351	0.2	32.2	2.4	0.74
8/9/2003	15:14:59	31.2	7.3	0.352	0.2	27.6	2.0	0.73
8/9/2003	15:29:59	31.4	7.3	0.351	0.2	28.8	2.1	0.74
8/9/2003	15:44:59	31.3	7.3	0.353	0.2	29.4	2.2	0.73
8/9/2003	15:59:59	31.3	7.2	0.353	0.2	26.7	2.0	0.73
8/9/2003	16:14:59	31.5	7.3	0.351	0.2	31.6	2.3	0.72
8/9/2003	16:29:59	31.2	7.3	0.353	0.2	33.5	2.5	0.72
8/9/2003	16:44:59	31.4	7.3	0.353	0.2	37.9	2.8	0.74
8/9/2003	16:59:59	31.4	7.3	0.352	0.2	42.1	3.1	0.71
8/9/2003	17:14:59	31.4	7.3	0.352	0.2	53.5	4.0	0.71
8/9/2003	17:29:59	31.4	7.3	0.352	0.2	53.6	4.0	0.73
8/9/2003	17:44:59	31.3	7.3	0.352	0.2	53.6	4.0	0.72
8/9/2003	17:59:59	31.5	7.3	0.352	0.2	60.8	4.5	0.71
8/9/2003	18:14:59	31.4	7.3	0.352	0.2	58.7	4.3	0.72
8/9/2003	18:29:59	31.5	7.4	0.352	0.2	68.7	5.1	0.70
8/9/2003	18:44:59	31.4	7.3	0.353	0.2	66.0	4.9	0.69
8/9/2003	18:59:59	31.4	7.3	0.351	0.2	60.2	4.4	0.69
8/9/2003	19:14:59	31.4	7.3	0.351	0.2	61.8	4.6	0.68

8/9/2003	19:29:59	31.3	7.3	0.351	0.2	58.2	4.3	0.68
8/9/2003	19:44:59	31.3	7.3	0.351	0.2	59.0	4.4	0.70
8/9/2003	19:59:59	31.3	7.3	0.35	0.2	58.2	4.3	0.70
8/9/2003	20:14:59	31.3	7.3	0.349	0.2	58.5	4.3	0.68
8/9/2003	20:29:59	31.2	7.3	0.349	0.2	54.5	4.0	0.69
8/9/2003	20:44:59	31.2	7.3	0.349	0.2	53.4	4.0	0.69
8/9/2003	20:59:59	31.2	7.3	0.35	0.2	52.6	3.9	0.69
8/9/2003	21:14:59	31.2	7.3	0.35	0.2	51.8	3.8	0.68
8/9/2003	21:29:59	31.1	7.3	0.35	0.2	50.6	3.8	0.67
8/9/2003	21:44:59	31.1	7.3	0.349	0.2	50.2	3.7	0.67
8/9/2003	21:59:59	31.1	7.3	0.349	0.2	49.6	3.7	0.66
8/9/2003	22:14:59	31.0	7.3	0.348	0.2	48.4	3.6	0.67
8/9/2003	22:29:59	31.0	7.3	0.347	0.2	47.8	3.6	0.67
8/9/2003	22:44:59	31.0	7.3	0.347	0.2	45.5	3.4	0.66
8/9/2003	22:59:59	30.9	7.3	0.346	0.2	44.6	3.3	0.66
8/9/2003	23:14:59	30.9	7.3	0.345	0.2	43.4	3.2	0.66
8/9/2003	23:29:59	30.9	7.3	0.345	0.2	42.6	3.2	0.65
8/9/2003	23:44:59	30.8	7.3	0.345	0.2	41.6	3.1	0.65
8/9/2003	23:59:59	30.8	7.3	0.344	0.2	41.3	3.1	0.65
8/10/2003	0:14:59	30.8	7.2	0.343	0.2	39.5	2.9	0.65
8/10/2003	0:29:59	30.7	7.2	0.343	0.2	38.8	2.9	0.66
8/10/2003	0:44:59	30.7	7.2	0.343	0.2	37.5	2.8	0.63
8/10/2003	0:59:59	30.7	7.2	0.343	0.2	37.4	2.8	0.64
8/10/2003	1:14:59	30.6	7.2	0.342	0.2	36.4	2.7	0.64
8/10/2003	1:29:59	30.6	7.2	0.342	0.2	35.8	2.7	0.64
8/10/2003	1:44:59	30.5	7.2	0.341	0.2	33.8	2.5	0.63
8/10/2003	1:59:59	30.5	7.2	0.341	0.2	34.2	2.6	0.63
8/10/2003	2:14:59	30.5	7.2	0.341	0.2	27.5	2.1	0.64
8/10/2003	2:29:59	30.4	7.2	0.341	0.2	31.5	2.4	0.63
8/10/2003	2:44:59	30.4	7.2	0.34	0.2	29.7	2.2	0.62
8/10/2003	2:59:59	30.4	7.2	0.34	0.2	29.7	2.2	0.62

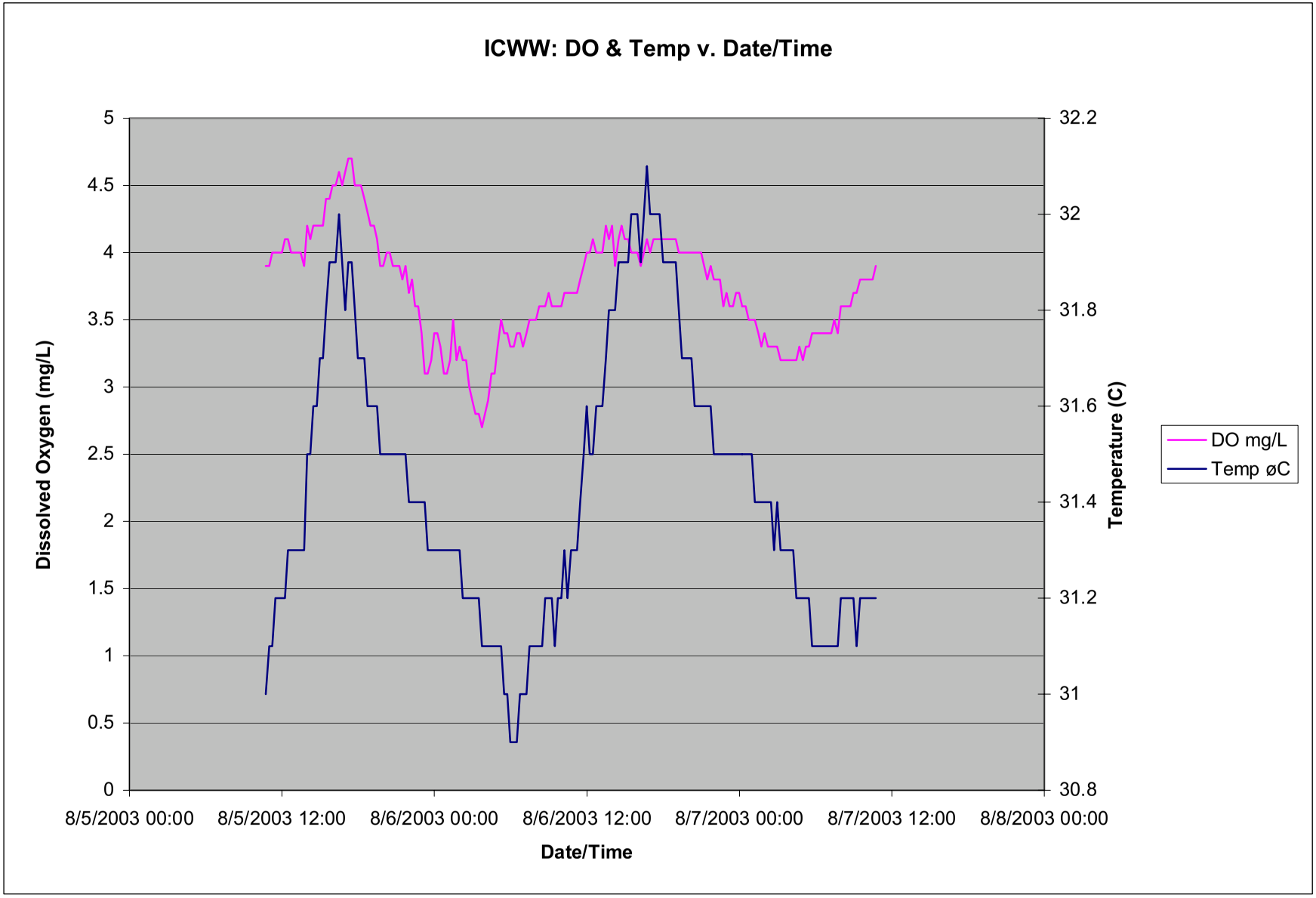
8/10/2003	3:14:59	30.4	7.2	0.34	0.2	29.5	2.2	0.62
8/10/2003	3:29:59	30.4	7.2	0.34	0.2	28.5	2.1	0.64
8/10/2003	3:44:59	30.3	7.2	0.34	0.2	28.1	2.1	0.62
8/10/2003	3:59:59	30.3	7.2	0.34	0.2	27.9	2.1	0.61
8/10/2003	4:14:59	30.3	7.2	0.34	0.2	27.9	2.1	0.64
8/10/2003	4:29:59	30.3	7.2	0.34	0.2	28.1	2.1	0.62
8/10/2003	4:44:59	30.2	7.2	0.339	0.2	28.0	2.1	0.62
8/10/2003	4:59:59	30.2	7.2	0.34	0.2	27.6	2.1	0.63
8/10/2003	5:14:59	30.2	7.2	0.341	0.2	27.8	2.1	0.63
8/10/2003	5:29:59	30.2	7.2	0.341	0.2	27.2	2.1	0.63
8/10/2003	5:44:59	30.2	7.2	0.341	0.2	26.3	2.0	0.64
8/10/2003	5:59:59	30.1	7.2	0.341	0.2	26.8	2.0	0.60
8/10/2003	6:14:59	30.1	7.2	0.341	0.2	26.3	2.0	0.63
8/10/2003	6:29:59	30.2	7.2	0.343	0.2	26.2	2.0	0.65
8/10/2003	6:44:59	30.1	7.2	0.343	0.2	26.5	2.0	0.65
8/10/2003	6:59:59	30.1	7.2	0.344	0.2	26.2	2.0	0.66
8/10/2003	7:14:59	30.1	7.2	0.345	0.2	26.5	2.0	0.65
8/10/2003	7:29:59	30.1	7.2	0.346	0.2	25.4	1.9	0.65
8/10/2003	7:44:59	30.1	7.2	0.347	0.2	26.1	2.0	0.66
8/10/2003	7:59:59	30.2	7.2	0.348	0.2	26.7	2.0	0.65
8/10/2003	8:14:59	30.2	7.2	0.348	0.2	25.7	1.9	0.67
8/10/2003	8:29:59	30.2	7.2	0.347	0.2	27.3	2.1	0.68
8/10/2003	8:44:59	30.2	7.2	0.347	0.2	28.4	2.1	0.66
8/10/2003	8:59:59	30.2	7.2	0.348	0.2	28.6	2.2	0.69
8/10/2003	9:14:59	30.3	7.2	0.35	0.2	30.3	2.3	0.68
8/10/2003	9:29:59	30.3	7.2	0.35	0.2	29.5	2.2	0.68
8/10/2003	9:44:59	30.3	7.2	0.351	0.2	30.3	2.3	0.68
8/10/2003	9:59:59	30.3	7.2	0.352	0.2	30.1	2.3	0.71
8/10/2003	10:14:59	30.4	7.2	0.351	0.2	32.1	2.4	0.68
8/10/2003	10:29:59	30.4	7.2	0.352	0.2	36.4	2.7	0.68
8/10/2003	10:44:59	30.4	7.2	0.353	0.2	34.1	2.6	0.72

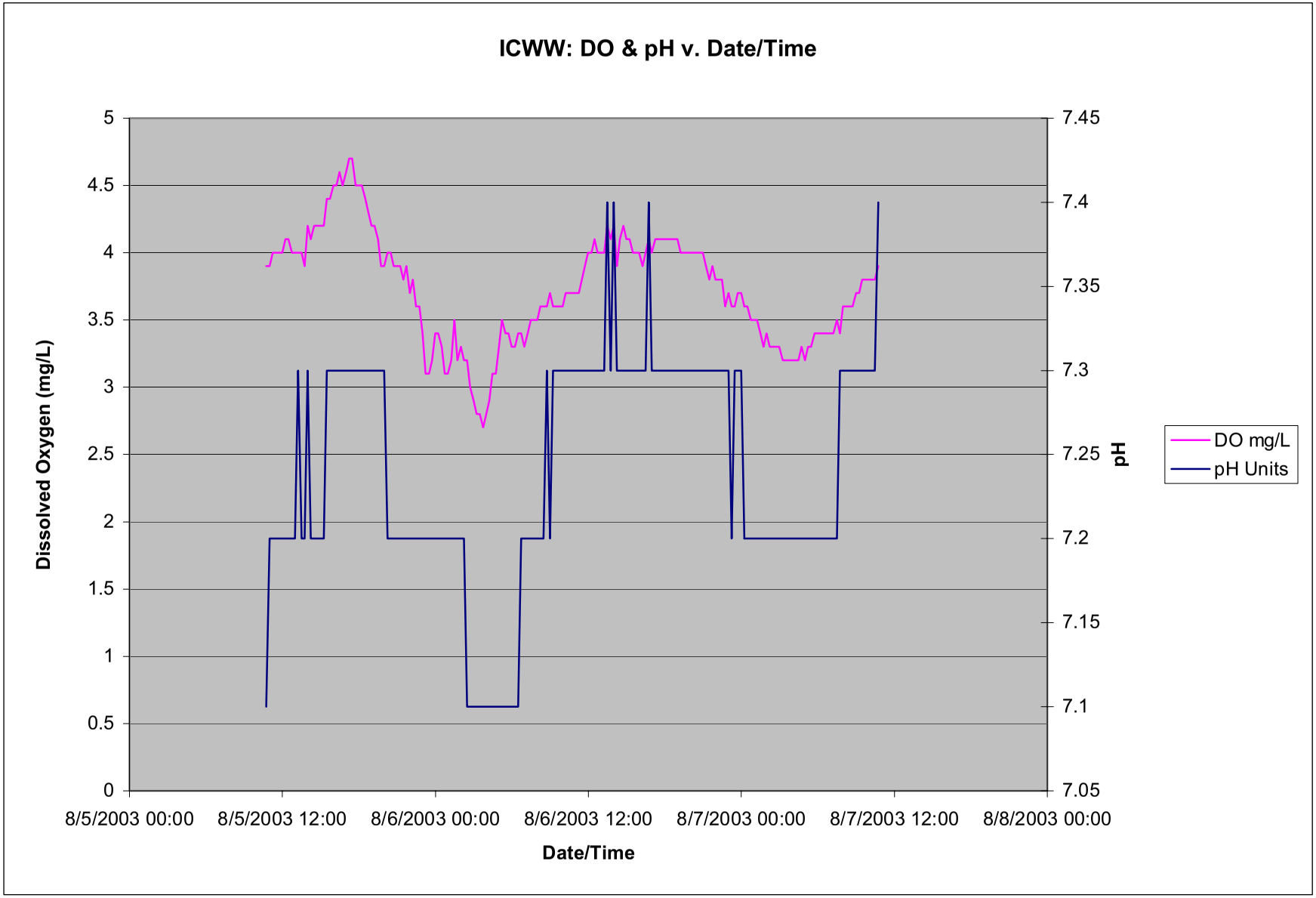
8/10/2003	10:59:59	30.5	7.2	0.352	0.2	37.4	2.8	0.69
8/10/2003	11:14:59	30.6	7.3	0.352	0.2	42.3	3.2	0.70
8/10/2003	11:29:59	30.6	7.3	0.353	0.2	41.4	3.1	0.71
8/10/2003	11:44:59	30.8	7.3	0.352	0.2	46.2	3.4	0.68
8/10/2003	11:59:59	30.7	7.3	0.353	0.2	46.3	3.5	0.72
8/10/2003	12:14:59	30.8	7.3	0.353	0.2	53.4	4.0	0.72
8/10/2003	12:29:59	31.0	7.4	0.353	0.2	60.6	4.5	0.72
8/10/2003	12:44:59	31.0	7.3	0.353	0.2	57.3	4.3	0.73
8/10/2003	12:59:59	31.3	7.4	0.351	0.2	75.1	5.5	0.72
8/10/2003	13:14:59	31.2	7.4	0.351	0.2	63.5	4.7	0.75
8/10/2003	13:29:59	31.2	7.4	0.351	0.2	63.9	4.7	0.73
8/10/2003	13:44:59	31.1	7.3	0.352	0.2	59.2	4.4	0.74
8/10/2003	13:59:59	31.2	7.4	0.351	0.2	64.6	4.8	0.74
8/10/2003	14:14:59	31.5	7.4	0.35	0.2	71.6	5.3	0.74
8/10/2003	14:29:59	31.5	7.4	0.35	0.2	71.2	5.2	0.75
8/10/2003	14:44:59	31.5	7.4	0.35	0.2	79.8	5.9	0.73
8/10/2003	14:59:59	31.5	7.4	0.35	0.2	73.6	5.4	0.73
8/10/2003	15:14:59	31.6	7.4	0.349	0.2	76.3	5.6	0.74
8/10/2003	15:29:59	31.4	7.4	0.349	0.2	61.3	4.5	0.74
8/10/2003	15:44:59	31.2	7.3	0.35	0.2	52.8	3.9	0.75
8/10/2003	15:59:59	31.5	7.4	0.349	0.2	63.9	4.7	0.74
8/10/2003	16:14:59	31.5	7.4	0.349	0.2	61.1	4.5	0.74
8/10/2003	16:29:59	31.7	7.4	0.348	0.2	69.1	5.1	0.74
8/10/2003	16:44:59	31.9	7.4	0.347	0.2	75.0	5.5	0.73
8/10/2003	16:59:59	31.6	7.4	0.348	0.2	63.4	4.7	0.74
8/10/2003	17:14:59	31.8	7.4	0.347	0.2	69.3	5.1	0.74
8/10/2003	17:29:59	31.8	7.4	0.346	0.2	68.4	5.0	0.74
8/10/2003	17:44:59	31.9	7.4	0.347	0.2	67.2	4.9	0.74
8/10/2003	17:59:59	32.1	7.5	0.344	0.2	79.0	5.8	0.73
8/10/2003	18:14:59	32.0	7.4	0.345	0.2	72.1	5.3	0.73
8/10/2003	18:29:59	32.2	7.5	0.342	0.2	85.8	6.2	0.71

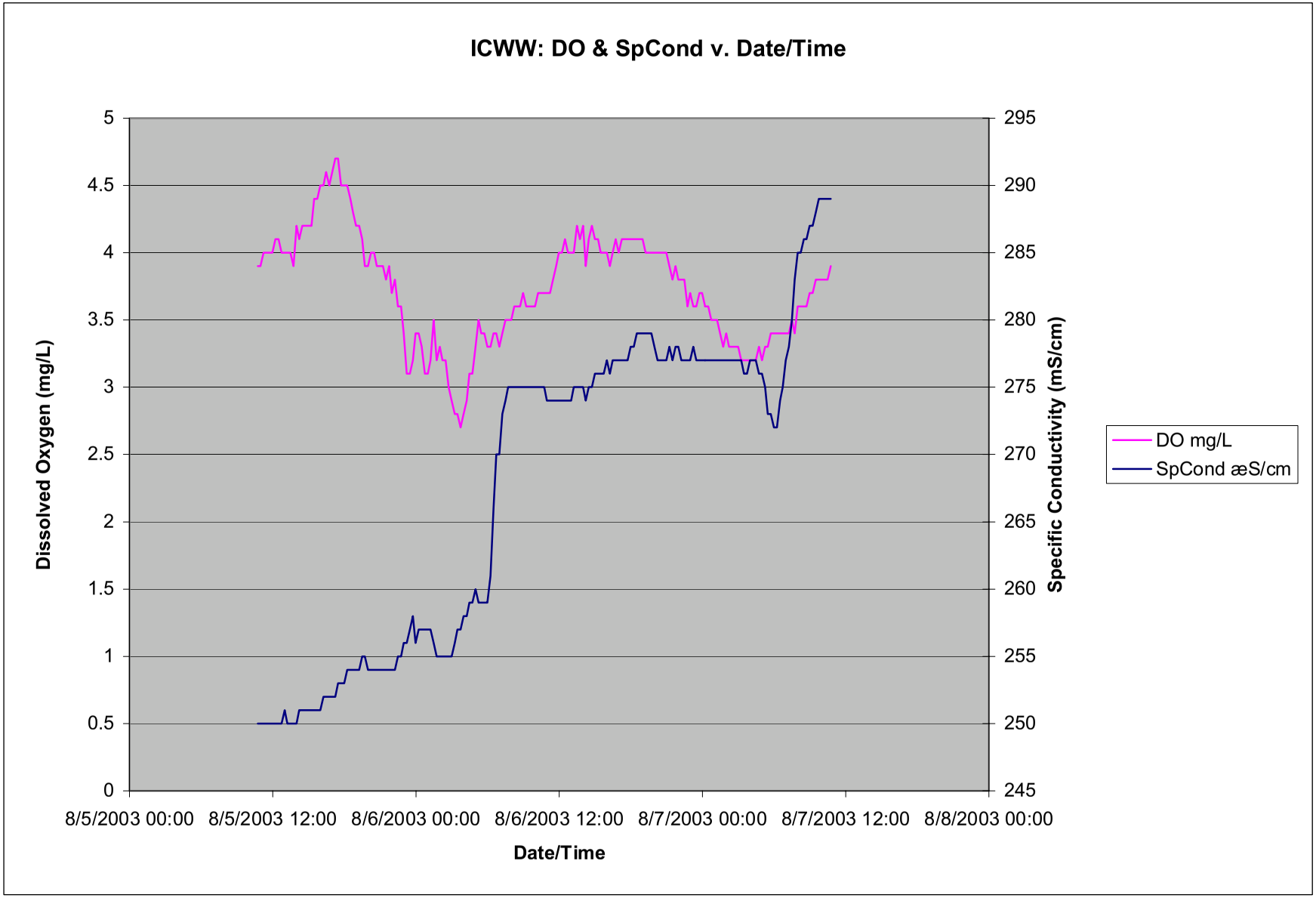
8/10/2003	18:44:59	32.0	7.4	0.344	0.2	72.8	5.3	0.72
8/10/2003	18:59:59	32.1	7.4	0.343	0.2	75.8	5.5	0.72
8/10/2003	19:14:59	32.0	7.4	0.344	0.2	70.0	5.1	0.72
8/10/2003	19:29:59	32.0	7.4	0.344	0.2	69.7	5.1	0.72
8/10/2003	19:44:59	32.1	7.4	0.344	0.2	72.7	5.3	0.71
8/10/2003	19:59:59	32.0	7.4	0.343	0.2	67.6	4.9	0.71
8/10/2003	20:14:59	32.1	7.5	0.342	0.2	81.1	5.9	0.71
8/10/2003	20:29:59	32.2	7.6	0.34	0.2	88.2	6.4	0.71
8/10/2003	20:44:59	32.2	7.6	0.34	0.2	88.9	6.5	0.71
8/10/2003	20:59:59	32.1	7.6	0.34	0.2	89.6	6.5	0.71
8/10/2003	21:14:59	32.1	7.6	0.34	0.2	88.2	6.4	0.69
8/10/2003	21:29:59	32.0	7.5	0.341	0.2	76.0	5.6	0.71
8/10/2003	21:44:59	31.9	7.5	0.341	0.2	83.9	6.1	0.70
8/10/2003	21:59:59	31.9	7.6	0.341	0.2	91.0	6.7	0.70
8/10/2003	22:14:59	31.8	7.6	0.341	0.2	87.4	6.4	0.68
8/10/2003	22:29:59	31.7	7.5	0.342	0.2	87.7	6.4	0.66
8/10/2003	22:44:59	31.7	7.5	0.342	0.2	81.8	6.0	0.70
8/10/2003	22:59:59	31.6	7.5	0.342	0.2	81.6	6.0	0.68
8/10/2003	23:14:59	31.6	7.5	0.342	0.2	78.8	5.8	0.68
8/10/2003	23:29:59	31.6	7.5	0.342	0.2	75.7	5.6	0.66
8/10/2003	23:44:59	31.5	7.5	0.343	0.2	77.2	5.7	0.67
8/10/2003	23:59:59	31.5	7.5	0.343	0.2	79.8	5.9	0.63
8/11/2003	0:14:59	31.5	7.5	0.343	0.2	78.9	5.8	0.67
8/11/2003	0:29:59	31.4	7.5	0.343	0.2	77.2	5.7	0.66
8/11/2003	0:44:59	31.4	7.5	0.343	0.2	76.3	5.6	0.66
8/11/2003	0:59:59	31.4	7.5	0.343	0.2	75.7	5.6	0.67
8/11/2003	1:14:59	31.3	7.5	0.343	0.2	75.3	5.6	0.64
8/11/2003	1:29:59	31.3	7.5	0.343	0.2	74.3	5.5	0.66
8/11/2003	1:44:59	31.3	7.5	0.343	0.2	73.6	5.4	0.66
8/11/2003	1:59:59	31.3	7.5	0.342	0.2	72.8	5.4	0.65
8/11/2003	2:14:59	31.2	7.5	0.342	0.2	71.9	5.3	0.64

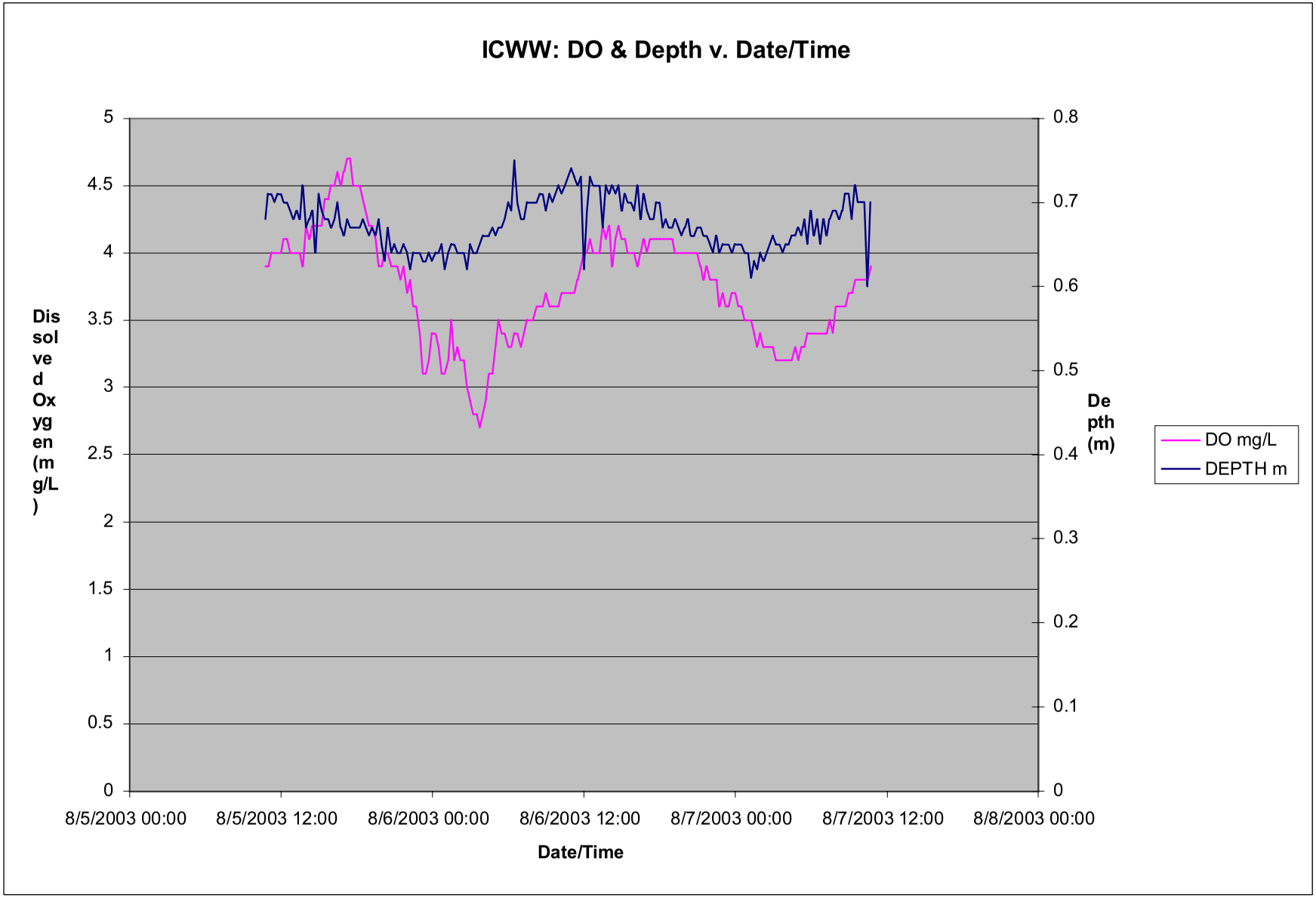
8/11/2003	2:29:59	31.2	7.4	0.343	0.2	69.9	5.2	0.64
8/11/2003	2:44:59	31.2	7.4	0.342	0.2	69.3	5.1	0.63
8/11/2003	2:59:59	31.1	7.4	0.342	0.2	69.1	5.1	0.62
8/11/2003	3:14:59	31.1	7.4	0.342	0.2	67.3	5.0	0.68
8/11/2003	3:29:59	31.1	7.4	0.343	0.2	67.1	5.0	0.64
8/11/2003	3:44:59	31.0	7.4	0.343	0.2	67.2	5.0	0.66
8/11/2003	3:59:59	31.0	7.4	0.343	0.2	64.0	4.8	0.65
8/11/2003	4:14:59	31.0	7.4	0.343	0.2	62.8	4.7	0.63
8/11/2003	4:29:59	31.0	7.4	0.343	0.2	62.8	4.7	0.66
8/11/2003	4:44:59	31.0	7.4	0.343	0.2	61.4	4.6	0.66
8/11/2003	4:59:59	30.9	7.4	0.343	0.2	60.4	4.5	0.65
8/11/2003	5:14:59	30.9	7.4	0.343	0.2	60.6	4.5	0.64
8/11/2003	5:29:59	30.9	7.4	0.343	0.2	59.2	4.4	0.64
8/11/2003	5:44:59	30.8	7.4	0.343	0.2	59.9	4.5	0.64
8/11/2003	5:59:59	30.8	7.4	0.343	0.2	59.0	4.4	0.65
8/11/2003	6:14:59	30.8	7.4	0.343	0.2	59.3	4.4	0.66
8/11/2003	6:29:59	30.8	7.4	0.344	0.2	58.7	4.4	0.63
8/11/2003	6:44:59	30.7	7.4	0.344	0.2	57.6	4.3	0.64
8/11/2003	6:59:59	30.7	7.4	0.345	0.2	56.7	4.2	0.69
8/11/2003	7:14:59	30.7	7.4	0.345	0.2	55.7	4.2	0.68
8/11/2003	7:29:59	30.7	7.4	0.346	0.2	55.0	4.1	0.69
8/11/2003	7:44:59	30.7	7.4	0.345	0.2	55.3	4.1	0.67
8/11/2003	7:59:59	30.7	7.3	0.346	0.2	54.8	4.1	0.67
8/11/2003	8:14:59	30.7	7.3	0.346	0.2	54.7	4.1	0.68
8/11/2003	8:29:59	30.7	7.3	0.346	0.2	53.9	4.0	0.69
8/11/2003	8:44:59	30.7	7.3	0.346	0.2	52.7	3.9	0.69
8/11/2003	8:59:59	30.7	7.3	0.346	0.2	52.9	3.9	0.70
8/11/2003	9:14:59	30.7	7.3	0.346	0.2	51.1	3.8	0.68
8/11/2003	9:29:59	30.8	7.3	0.346	0.2	52.6	3.9	0.70
8/11/2003	9:44:59	30.8	7.3	0.346	0.2	52.2	3.9	0.71
8/11/2003	9:59:59	30.8	7.3	0.346	0.2	49.8	3.7	0.71

8/11/2003	10:14:59	30.8	7.3	0.346	0.2	48.7	3.6	0.71
8/11/2003	10:29:59	30.7	7.3	0.345	0.2	47.3	3.5	0.72
8/11/2003	10:44:59	30.7	7.3	0.345	0.2	47.4	3.5	0.71
8/11/2003	10:59:59	30.8	7.3	0.345	0.2	48.9	3.7	0.71
8/11/2003	11:14:59	30.8	7.3	0.345	0.2	50.1	3.7	0.72
8/11/2003	11:29:59	30.8	7.3	0.345	0.2	47.6	3.6	0.72
8/11/2003	11:44:59	30.8	7.3	0.345	0.2	49.8	3.7	0.73
8/11/2003	11:59:59	31.0	7.4	0.345	0.2	56.4	4.2	0.75
8/11/2003	12:14:59	31.2	7.4	0.346	0.2	67.8	5.0	0.72
8/11/2003	12:29:59	31.1	7.4	0.344	0.2	66.8	5.0	0.72


ICWW: DO & Temp v. Date/Time
Dissolved Oxygen (mg/L)
Temperature (C)
Date/Time
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
32.2
32
31.8
31.6
31.4
31.2
31
30.8
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00
DO mg/L
Temp øC


ICWW: DO & pH v. Date/Time
Dissolved Oxygen (mg/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
pH
7.45
7.4
7.35
7.3
7.25
7.2
7.15
7.1
7.05
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00
Date/Time
DO mg/L
pH Units


ICWW: DO & SpCond v. Date/Time
Dissolved Oxygen (mg/L)
Specific Conductivity (mS/cm)
Date/Time
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
295
290
285
280
275
270
265
260
255
250
245
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00
DO mg/L
SpCond æS/cm


ICWW: DO & Depth v. Date/Time
Dissolved Oxygen (mg/L)
Depth (m)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
8/5/2003 00:00
8/5/2003 12:00
8/6/2003 00:00
8/6/2003 12:00
8/7/2003 00:00
8/7/2003 12:00
8/8/2003 00:00
Date/Time
DO mg/L
DEPTH m

MiniSonde 4a 39001
Log File Name : ICWW-1 080403
Setup Date (MMDDYY) : 080403
Setup Time (HHMMSS) : 103435
Starting Date (MMDDYY) : 080403
Starting Time (HHMMSS) : 235959
Stopping Date (MMDDYY) : 080703
Stopping Time (HHMMSS) : 235959
Interval (HHMMSS) : 001500
Sensor warmup (HHMMSS) : 000200
Circltr warmup (HHMMSS) : 000200

Date MMDDYY	Time HHMMSS	Temp øC	SpCond æS/cm	Sal ppt	pH Units	DO mg/l	DO% Sat	Depth meters
8/5/2003	10:44	31.0	250	0.1	7.1	3.9	52.6	0.68
8/5/2003	10:59	31.1	250	0.1	7.2	3.9	52.8	0.71
8/5/2003	11:14	31.1	250	0.1	7.2	4.0	53.3	0.71
8/5/2003	11:29	31.2	250	0.1	7.2	4.0	54.6	0.70
8/5/2003	11:44	31.2	250	0.1	7.2	4.0	53.7	0.71
8/5/2003	11:59	31.2	250	0.1	7.2	4.0	54.0	0.71
8/5/2003	12:14	31.2	250	0.1	7.2	4.1	55.0	0.70
8/5/2003	12:29	31.3	250	0.1	7.2	4.1	54.9	0.70
8/5/2003	12:44	31.3	250	0.1	7.2	4.0	54.2	0.69
8/5/2003	12:59	31.3	251	0.1	7.2	4.0	54.6	0.68
8/5/2003	13:14	31.3	250	0.1	7.3	4.0	54.7	0.69
8/5/2003	13:29	31.3	250	0.1	7.2	4.0	53.6	0.68
8/5/2003	13:44	31.3	250	0.1	7.2	3.9	52.3	0.72

8/5/2003	13:59	31.5	250	0.1	7.3	4.2	57.6	0.67
8/5/2003	14:14	31.5	251	0.1	7.2	4.1	55.8	0.68
8/5/2003	14:29	31.6	251	0.1	7.2	4.2	57.0	0.69
8/5/2003	14:44	31.6	251	0.1	7.2	4.2	56.7	0.64
8/5/2003	14:59	31.7	251	0.1	7.2	4.2	57.7	0.71
8/5/2003	15:14	31.7	251	0.1	7.2	4.2	57.0	0.69
8/5/2003	15:29	31.8	251	0.1	7.3	4.4	59.5	0.68
8/5/2003	15:44	31.9	251	0.1	7.3	4.4	59.6	0.68
8/5/2003	15:59	31.9	251	0.1	7.3	4.5	62.1	0.67
8/5/2003	16:14	31.9	252	0.1	7.3	4.5	61.5	0.68
8/5/2003	16:29	32.0	252	0.1	7.3	4.6	62.7	0.70
8/5/2003	16:44	31.9	252	0.1	7.3	4.5	60.8	0.67
8/5/2003	16:59	31.8	252	0.1	7.3	4.6	62.3	0.66
8/5/2003	17:14	31.9	252	0.1	7.3	4.7	64.5	0.68
8/5/2003	17:29	31.9	253	0.1	7.3	4.7	63.7	0.67
8/5/2003	17:44	31.8	253	0.1	7.3	4.5	62.0	0.67
8/5/2003	17:59	31.7	253	0.1	7.3	4.5	61.9	0.67
8/5/2003	18:14	31.7	254	0.1	7.3	4.5	60.8	0.67
8/5/2003	18:29	31.7	254	0.1	7.3	4.4	59.8	0.68
8/5/2003	18:44	31.6	254	0.1	7.3	4.3	58.0	0.67
8/5/2003	18:59	31.6	254	0.1	7.3	4.2	57.0	0.66
8/5/2003	19:14	31.6	254	0.1	7.3	4.2	56.4	0.67
8/5/2003	19:29	31.6	255	0.1	7.3	4.1	56.1	0.66
8/5/2003	19:44	31.5	255	0.1	7.3	3.9	53.5	0.68
8/5/2003	19:59	31.5	254	0.1	7.3	3.9	53.0	0.65
8/5/2003	20:14	31.5	254	0.1	7.2	4.0	54.6	0.63
8/5/2003	20:29	31.5	254	0.1	7.2	4.0	54.4	0.67
8/5/2003	20:44	31.5	254	0.1	7.2	3.9	53.3	0.64
8/5/2003	20:59	31.5	254	0.1	7.2	3.9	52.9	0.65
8/5/2003	21:14	31.5	254	0.1	7.2	3.9	52.7	0.64
8/5/2003	21:29	31.5	254	0.1	7.2	3.8	52.2	0.64

8/5/2003	21:44	31.5	254	0.1	7.2	3.9	52.8	0.65
8/5/2003	21:59	31.4	254	0.1	7.2	3.7	50.5	0.64
8/5/2003	22:14	31.4	254	0.1	7.2	3.8	51.9	0.62
8/5/2003	22:29	31.4	255	0.1	7.2	3.6	48.4	0.64
8/5/2003	22:44	31.4	255	0.1	7.2	3.6	48.9	0.64
8/5/2003	22:59	31.4	256	0.1	7.2	3.4	45.4	0.64
8/5/2003	23:14	31.4	256	0.1	7.2	3.1	42.6	0.63
8/5/2003	23:29	31.3	257	0.1	7.2	3.1	41.5	0.63
8/5/2003	23:44	31.3	258	0.1	7.2	3.2	43.2	0.64
8/5/2003	23:59	31.3	256	0.1	7.2	3.4	45.5	0.63
8/6/2003	0:14	31.3	257	0.1	7.2	3.4	46.5	0.64
8/6/2003	0:29	31.3	257	0.1	7.2	3.3	44.0	0.64
8/6/2003	0:44	31.3	257	0.1	7.2	3.1	42.1	0.65
8/6/2003	0:59	31.3	257	0.1	7.2	3.1	41.4	0.62
8/6/2003	1:14	31.3	257	0.1	7.2	3.2	42.6	0.64
8/6/2003	1:29	31.3	256	0.1	7.2	3.5	46.7	0.65
8/6/2003	1:44	31.3	255	0.1	7.2	3.2	43.4	0.65
8/6/2003	1:59	31.3	255	0.1	7.2	3.3	44.0	0.64
8/6/2003	2:14	31.2	255	0.1	7.2	3.2	43.7	0.64
8/6/2003	2:29	31.2	255	0.1	7.1	3.2	42.8	0.64
8/6/2003	2:44	31.2	255	0.1	7.1	3.0	40.4	0.62
8/6/2003	2:59	31.2	255	0.1	7.1	2.9	39.0	0.65
8/6/2003	3:14	31.2	256	0.1	7.1	2.8	37.6	0.64
8/6/2003	3:29	31.2	257	0.1	7.1	2.8	37.5	0.64
8/6/2003	3:44	31.1	257	0.1	7.1	2.7	36.6	0.65
8/6/2003	3:59	31.1	258	0.1	7.1	2.8	37.2	0.66
8/6/2003	4:14	31.1	258	0.1	7.1	2.9	39.6	0.66
8/6/2003	4:29	31.1	259	0.1	7.1	3.1	42.1	0.66
8/6/2003	4:44	31.1	259	0.1	7.1	3.1	41.8	0.67
8/6/2003	4:59	31.1	260	0.1	7.1	3.3	44.3	0.66
8/6/2003	5:14	31.1	259	0.1	7.1	3.5	47.3	0.67

8/6/2003	5:29	31.0	259	0.1	7.1	3.4	45.5	0.67
8/6/2003	5:44	31.0	259	0.1	7.1	3.4	45.1	0.68
8/6/2003	5:59	30.9	259	0.1	7.1	3.3	44.6	0.70
8/6/2003	6:14	30.9	261	0.1	7.1	3.3	44.7	0.69
8/6/2003	6:29	30.9	266	0.1	7.1	3.4	45.5	0.75
8/6/2003	6:44	31.0	270	0.1	7.2	3.4	45.2	0.70
8/6/2003	6:59	31.0	270	0.1	7.2	3.3	44.6	0.68
8/6/2003	7:14	31.0	273	0.1	7.2	3.4	46.2	0.68
8/6/2003	7:29	31.1	274	0.1	7.2	3.5	47.1	0.70
8/6/2003	7:44	31.1	275	0.1	7.2	3.5	46.8	0.70
8/6/2003	7:59	31.1	275	0.1	7.2	3.5	46.6	0.70
8/6/2003	8:14	31.1	275	0.1	7.2	3.6	48.6	0.70
8/6/2003	8:29	31.1	275	0.1	7.2	3.6	48.0	0.71
8/6/2003	8:44	31.2	275	0.1	7.3	3.6	48.9	0.71
8/6/2003	8:59	31.2	275	0.1	7.2	3.7	49.6	0.69
8/6/2003	9:14	31.2	275	0.1	7.3	3.6	49.2	0.71
8/6/2003	9:29	31.1	275	0.1	7.3	3.6	49.0	0.70
8/6/2003	9:44	31.2	275	0.1	7.3	3.6	48.8	0.71
8/6/2003	9:59	31.2	275	0.1	7.3	3.6	48.6	0.72
8/6/2003	10:14	31.3	275	0.1	7.3	3.7	50.1	0.71
8/6/2003	10:29	31.2	275	0.1	7.3	3.7	50.3	0.72
8/6/2003	10:44	31.3	275	0.1	7.3	3.7	50.2	0.73
8/6/2003	10:59	31.3	274	0.1	7.3	3.7	50.5	0.74
8/6/2003	11:14	31.3	274	0.1	7.3	3.7	50.7	0.73
8/6/2003	11:29	31.4	274	0.1	7.3	3.8	51.4	0.72
8/6/2003	11:44	31.5	274	0.1	7.3	3.9	52.7	0.73
8/6/2003	11:59	31.6	274	0.1	7.3	4.0	54.2	0.62
8/6/2003	12:14	31.5	274	0.1	7.3	4.0	54.2	0.69
8/6/2003	12:29	31.5	274	0.1	7.3	4.1	55.1	0.73
8/6/2003	12:44	31.6	274	0.1	7.3	4.0	54.5	0.72
8/6/2003	12:59	31.6	274	0.1	7.3	4.0	55.0	0.72

8/6/2003	13:14	31.6	275	0.1	7.3	4.0	54.9	0.72
8/6/2003	13:29	31.7	275	0.1	7.4	4.2	56.7	0.67
8/6/2003	13:44	31.8	275	0.1	7.3	4.1	55.7	0.72
8/6/2003	13:59	31.8	275	0.1	7.4	4.2	57.8	0.71
8/6/2003	14:14	31.8	274	0.1	7.3	3.9	53.6	0.72
8/6/2003	14:29	31.9	275	0.1	7.3	4.1	56.4	0.71
8/6/2003	14:44	31.9	275	0.1	7.3	4.2	56.7	0.72
8/6/2003	14:59	31.9	276	0.1	7.3	4.1	56.3	0.69
8/6/2003	15:14	31.9	276	0.1	7.3	4.1	55.4	0.71
8/6/2003	15:29	32.0	276	0.1	7.3	4.0	55.1	0.70
8/6/2003	15:44	32.0	276	0.1	7.3	4.0	55.0	0.70
8/6/2003	15:59	32.0	277	0.1	7.3	4.0	54.3	0.69
8/6/2003	16:14	31.9	276	0.1	7.3	3.9	52.7	0.72
8/6/2003	16:29	32.0	277	0.1	7.3	4.0	54.7	0.68
8/6/2003	16:44	32.1	277	0.1	7.4	4.1	56.4	0.71
8/6/2003	16:59	32.0	277	0.1	7.3	4.0	55.3	0.69
8/6/2003	17:14	32.0	277	0.1	7.3	4.1	55.5	0.68
8/6/2003	17:29	32.0	277	0.1	7.3	4.1	56.4	0.68
8/6/2003	17:44	32.0	277	0.1	7.3	4.1	56.4	0.70
8/6/2003	17:59	31.9	278	0.1	7.3	4.1	56.2	0.70
8/6/2003	18:14	31.9	278	0.1	7.3	4.1	55.8	0.67
8/6/2003	18:29	31.9	279	0.1	7.3	4.1	55.8	0.68
8/6/2003	18:44	31.9	279	0.1	7.3	4.1	56.0	0.67
8/6/2003	18:59	31.9	279	0.1	7.3	4.1	55.7	0.67
8/6/2003	19:14	31.8	279	0.1	7.3	4.0	54.9	0.68
8/6/2003	19:29	31.7	279	0.1	7.3	4.0	54.8	0.67
8/6/2003	19:44	31.7	279	0.1	7.3	4.0	54.5	0.66
8/6/2003	19:59	31.7	278	0.1	7.3	4.0	54.3	0.67
8/6/2003	20:14	31.7	277	0.1	7.3	4.0	54.3	0.68
8/6/2003	20:29	31.6	277	0.1	7.3	4.0	54.2	0.66
8/6/2003	20:44	31.6	277	0.1	7.3	4.0	54.2	0.66

8/6/2003	20:59	31.6	277	0.1	7.3	4.0	54.7	0.67
8/6/2003	21:14	31.6	278	0.1	7.3	3.9	53.6	0.67
8/6/2003	21:29	31.6	277	0.1	7.3	3.8	51.9	0.66
8/6/2003	21:44	31.6	278	0.1	7.3	3.9	52.4	0.66
8/6/2003	21:59	31.5	278	0.1	7.3	3.8	51.7	0.65
8/6/2003	22:14	31.5	277	0.1	7.3	3.8	51.0	0.64
8/6/2003	22:29	31.5	277	0.1	7.3	3.8	51.0	0.66
8/6/2003	22:44	31.5	277	0.1	7.3	3.6	49.3	0.64
8/6/2003	22:59	31.5	277	0.1	7.3	3.7	50.2	0.65
8/6/2003	23:14	31.5	278	0.1	7.2	3.6	48.4	0.65
8/6/2003	23:29	31.5	277	0.1	7.3	3.6	49.3	0.65
8/6/2003	23:44	31.5	277	0.1	7.3	3.7	49.6	0.64
8/6/2003	23:59	31.5	277	0.1	7.3	3.7	49.6	0.65
8/7/2003	0:14	31.5	277	0.1	7.2	3.6	48.8	0.65
8/7/2003	0:29	31.5	277	0.1	7.2	3.6	48.3	0.65
8/7/2003	0:44	31.5	277	0.1	7.2	3.5	48.0	0.64
8/7/2003	0:59	31.5	277	0.1	7.2	3.5	47.4	0.64
8/7/2003	1:14	31.4	277	0.1	7.2	3.5	47.7	0.61
8/7/2003	1:29	31.4	277	0.1	7.2	3.4	46.5	0.63
8/7/2003	1:44	31.4	277	0.1	7.2	3.3	44.9	0.62
8/7/2003	1:59	31.4	277	0.1	7.2	3.4	46.0	0.64
8/7/2003	2:14	31.4	277	0.1	7.2	3.3	45.2	0.63
8/7/2003	2:29	31.4	277	0.1	7.2	3.3	45.0	0.64
8/7/2003	2:44	31.3	277	0.1	7.2	3.3	44.9	0.65
8/7/2003	2:59	31.4	277	0.1	7.2	3.3	44.3	0.66
8/7/2003	3:14	31.3	277	0.1	7.2	3.2	43.4	0.65
8/7/2003	3:29	31.3	276	0.1	7.2	3.2	43.2	0.65
8/7/2003	3:44	31.3	276	0.1	7.2	3.2	43.6	0.64
8/7/2003	3:59	31.3	277	0.1	7.2	3.2	43.2	0.65
8/7/2003	4:14	31.3	277	0.1	7.2	3.2	43.2	0.65
8/7/2003	4:29	31.2	277	0.1	7.2	3.2	43.7	0.66

8/7/2003	4:44	31.2	276	0.1	7.2	3.3	44.5	0.66
8/7/2003	4:59	31.2	276	0.1	7.2	3.2	43.1	0.67
8/7/2003	5:14	31.2	275	0.1	7.2	3.3	44.9	0.66
8/7/2003	5:29	31.2	273	0.1	7.2	3.3	44.6	0.68
8/7/2003	5:44	31.1	273	0.1	7.2	3.4	45.6	0.65
8/7/2003	5:59	31.1	272	0.1	7.2	3.4	45.6	0.69
8/7/2003	6:14	31.1	272	0.1	7.2	3.4	45.9	0.66
8/7/2003	6:29	31.1	274	0.1	7.2	3.4	45.9	0.68
8/7/2003	6:44	31.1	275	0.1	7.2	3.4	45.6	0.65
8/7/2003	6:59	31.1	277	0.1	7.2	3.4	46.2	0.68
8/7/2003	7:14	31.1	278	0.1	7.2	3.4	46.2	0.66
8/7/2003	7:29	31.1	280	0.1	7.2	3.5	47.2	0.68
8/7/2003	7:44	31.1	283	0.1	7.3	3.4	46.2	0.69
8/7/2003	7:59	31.2	285	0.1	7.3	3.6	49.0	0.69
8/7/2003	8:14	31.2	285	0.1	7.3	3.6	49.0	0.68
8/7/2003	8:29	31.2	286	0.1	7.3	3.6	49.2	0.69
8/7/2003	8:44	31.2	286	0.1	7.3	3.6	48.7	0.71
8/7/2003	8:59	31.2	287	0.1	7.3	3.7	50.3	0.71
8/7/2003	9:14	31.1	287	0.1	7.3	3.7	49.5	0.68
8/7/2003	9:29	31.2	288	0.1	7.3	3.8	51.1	0.72
8/7/2003	9:44	31.2	289	0.1	7.3	3.8	51.6	0.70
8/7/2003	9:59	31.2	289	0.1	7.3	3.8	51.4	0.70
8/7/2003	10:14	31.2	289	0.1	7.3	3.8	51.9	0.70
8/7/2003	10:29	31.2	289	0.1	7.3	3.8	52.0	0.60
8/7/2003	10:44	31.2	289	0.1	7.4	3.9	52.4	0.70

APPENDIX H5 – BOD CALCULATIONS

Bayou Terrebonne BOD Summary

Survey Date 8/6/03

Site ID	CBOD1			CBOD2			NBOD		
	UCBOD1 (mg/l)	k rate (1/day)	Lag time (days)	UCBOD2 (mg/l)	k rate (1/day)	Lag time (days)	UNBOD (mg/l)	k rate (1/day)	Lag time (days)
BC-1	3.81	0.234	0.00	4.42	0.029	15.75	1.83	0.104	6.66
BT-01	12.13	0.415	0.15	12.40	0.034	5.25	5.15	0.129	8.12
BT-02	4.10	0.225	0.00	4.47	0.030	12.25	2.68	0.109	5.83
BT-03	3.60	0.307	0.00	4.78	0.030	11.08	3.04	0.170	4.76
BT-04	3.52	0.270	0.00	3.89	0.032	12.20	1.27	0.063	6.76
BT-05	3.24	0.329	0.00	4.21	0.031	11.67	1.46	0.075	4.86
BT-05a	4.76	0.302	0.00	5.18	0.035	12.15	2.35	0.102	3.45
BT-06	2.85	0.247	0.00	3.44	0.032	15.92	1.71	0.102	4.67
BT-07	4.62	0.306	0.00	4.07	0.031	12.64	2.08	0.093	4.96
BT-08	4.20	0.241	0.00	4.18	0.029	16.04	2.22	0.118	5.25
BT-09	5.13	0.223	0.00	4.79	0.031	15.75	2.21	0.093	4.08
BT-10	3.73	0.196	0.68	4.20	0.030	16.82	2.66	0.117	9.67
BT-11	3.63	0.412	0.58	4.07	0.031	15.26	2.54	0.170	4.62
BT-12	4.06	0.307	0.12	4.03	0.031	15.48	3.05	0.163	4.03
ICWW	4.21	0.307	0.55	3.45	0.032	16.97	2.73	0.102	0.66

Survey Stream and date: **Bayou Terrebonne (Subsegment 120301)**

Sample Collection date: **Analysis Start date:** 08/08/03

Total BOD data

Item No.	Sample No.	Initial 08/08/03	Daily analysis start dates: 08/08/03	08/11/03	08/13/03	08/15/03	08/18/03	08/22/03	08/27/03	09/05/03	09/16/03
1	(BC-1) Bayou Cane above pumps		0.60	2.00	2.40	3.30	4.00	4.60	5.60	6.60	7.80
2	(BT-1) Bayou Terrebonne Ducros Rd.		2.50	8.40	10.50	12.40	14.70	17.90	20.90	23.50	25.60
3	(ICWW-1) Intracoastal Waterway near gauging station		0.70	2.80	4.00	5.20	5.50	6.10	6.80	7.60	8.70
4	(BT-2) Bayou Terrebonne Price School Rd.		0.70	2.10	2.70	3.50	4.70	5.80	7.00	8.00	9.20
5	(BT-3) Bayou Terrebonne Recreation Rd.		0.70	2.30	2.90	4.10	5.20	6.50	7.30	8.30	9.40
6	(BT-4) Bayou Terrebonne above weir		0.50	2.00	2.50	3.10	3.50	4.20	4.90	5.90	7.00
7	(BT-5) Bayou Terrebonne below weir		0.60	2.10	2.50	3.20	3.60	4.30	5.00	6.00	7.00
8	(BT-5A) Bayou Terrebonne below weir		1.20	3.00	3.80	5.00	5.70	6.60	7.70	9.00	10.30
9	(BT-6) Bayou Terrebonne above weir		0.50	1.60	1.90	2.80	3.20	3.80	4.50	5.40	6.40
10	(BT-7) Bayou Terrebonne below weir		1.00	2.80	3.50	4.60	5.10	5.90	6.90	7.90	9.00
11	(BT-8) Bayou Terrebonne Funderburk Rd.		0.70	2.20	2.80	4.00	4.70	5.50	6.40	7.30	8.50
12	(BT-9) Bayou Terrebonne Westside St.		0.90	2.70	3.40	4.70	5.40	6.30	7.30	8.40	9.80
13	(BT-10) Bayou Terrebonne Hollywood St.		0.10	1.40	2.00	2.80	3.20	4.50	5.70	7.20	8.40
14	(BT-11) Bayou Terrebonne Morgan St.		0.80	2.30	3.10	4.40	4.90	5.70	6.50	7.20	8.40
15	(BT-12) Bayou Terrebonne Gabasse St.		0.90	2.40	3.40	5.00	5.70	6.40	7.30	8.20	9.20
16											
17											
18											
19											
20											

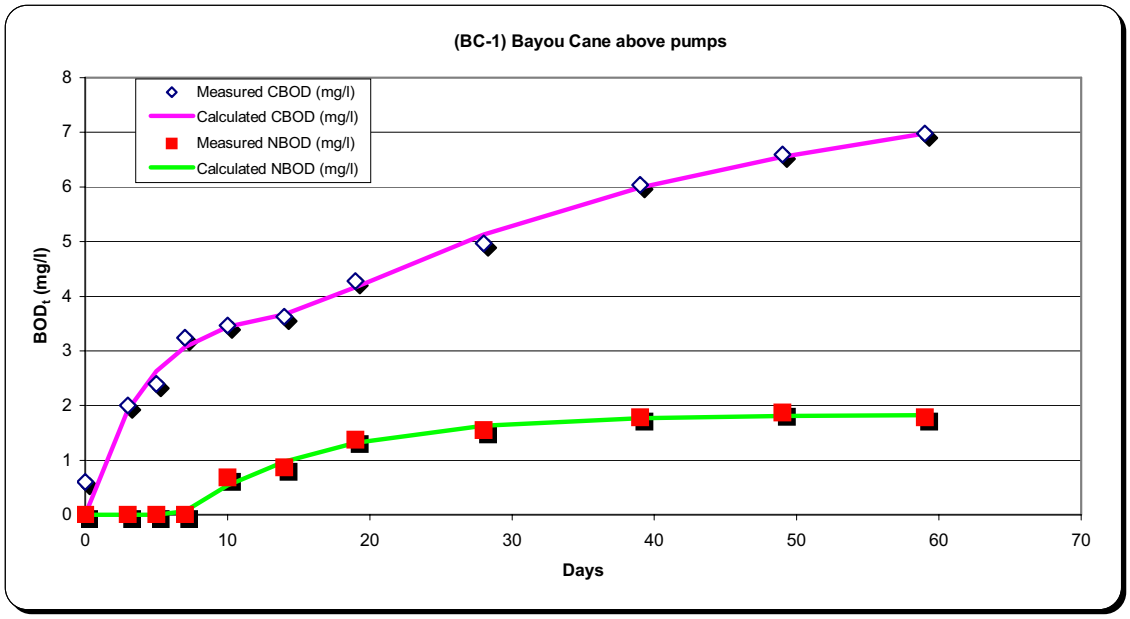
(NO_2+NO_3) as Nitrogen data (mg/l)

Item No.	Sample No.	Initial 08/08/03	Daily analysis start dates: 08/08/03	08/11/03	08/13/03	08/15/03	08/18/03	08/22/03	08/27/03	09/05/03	09/16/03
1	(BC-1) Bayou Cane above pumps	0.00	0.00	0.00	0.00	0.00	0.15	0.19	0.30	0.34	0.39
2	(BT-1) Bayou Terrebonne Ducros Rd.	0.00	0.00	0.00	0.00	0.00	0.26	0.57	0.88	0.97	1.07
3	(ICWW-1) Intracoastal Waterway near gauging station	0.60	0.60	0.72	0.83	0.89	0.95	1.05	1.12	1.15	1.18
4	(BT-2) Bayou Terrebonne Price School Rd.	0.00	0.00	0.00	0.00	0.06	0.23	0.34	0.47	0.51	0.53
5	(BT-3) Bayou Terrebonne Recreation Rd.	0.00	0.00	0.00	0.05	0.19	0.38	0.53	0.57	0.63	0.66
6	(BT-4) Bayou Terrebonne above weir	0.00	0.00	0.00	0.00	0.00	0.06	0.10	0.15	0.20	0.24
7	(BT-5) Bayou Terrebonne below weir	0.00	0.00	0.00	0.00	0.05	0.10	0.17	0.20	0.26	0.29
8	(BT-5A) Bayou Terrebonne below weir	0.00	0.00	0.00	0.07	0.17	0.24	0.34	0.41	0.47	0.50
9	(BT-6) Bayou Terrebonne above weir	0.00	0.00	0.00	0.00	0.09	0.17	0.23	0.28	0.33	0.36
10	(BT-7) Bayou Terrebonne below weir	0.00	0.00	0.00	0.00	0.09	0.17	0.24	0.34	0.40	0.46
11	(BT-8) Bayou Terrebonne Funderburk Rd.	0.05	0.05	0.00	0.06	0.13	0.27	0.38	0.43	0.48	0.51
12	(BT-9) Bayou Terrebonne Westside St.	0.00	0.00	0.00	0.05	0.10	0.20	0.30	0.37	0.43	0.46
13	(BT-10) Bayou Terrebonne Hollywood St.	0.64	0.63	0.64	0.64	0.63	0.66	0.88	1.01	1.17	1.20
14	(BT-11) Bayou Terrebonne Morgan St.	0.10	0.10	0.10	0.15	0.29	0.40	0.54	0.58	0.64	0.66
15	(BT-12) Bayou Terrebonne Gabasse St.	0.10	0.09	0.10	0.17	0.41	0.49	0.64	0.69	0.75	0.76
16											
17											
18											
19											
20											

BC1 – BAYOU CANE UPSTREAM OF THE PUMPS

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	1.8297455	3.8064017	4.41928196
k rate (1/day)	0.1035417	0.2341667	0.02925347
Lag time (days)	6.6597219	0	15.75

Breakpoint: 14th day



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.

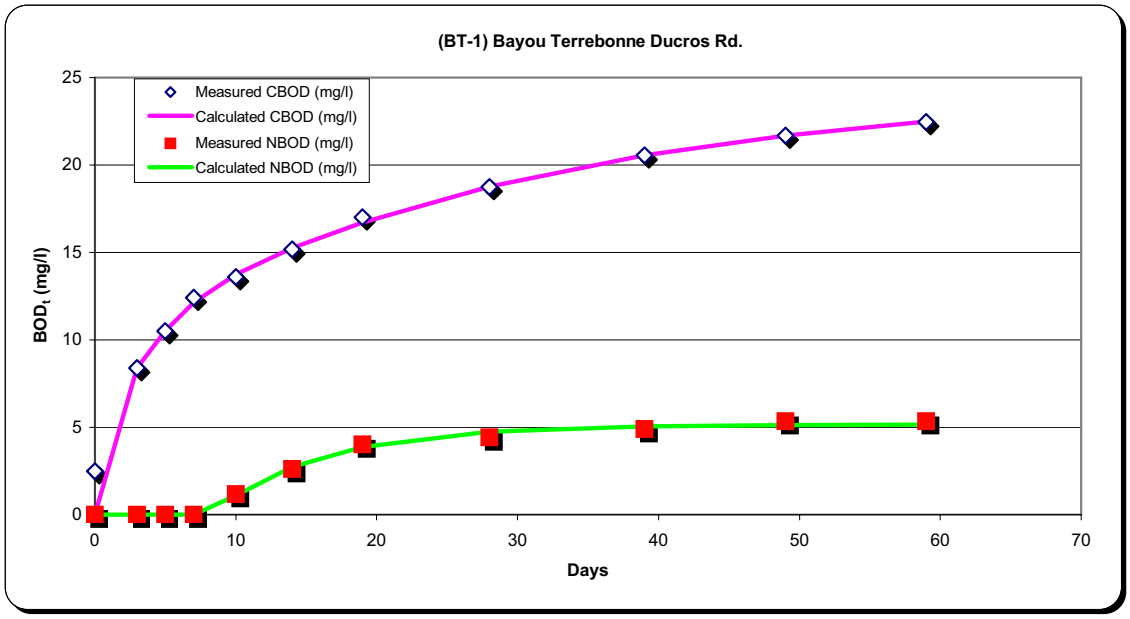
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

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.

BT-1 BAYOU TERREBONNE AT DUCROS ROAD

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	5.1488667	12.126447	12.4008427
k rate (1/day)	0.12875	0.4146354	0.03364583
Lag time (days)	8.1180563	0.1539352	5.25

Breakpoint: 5th day

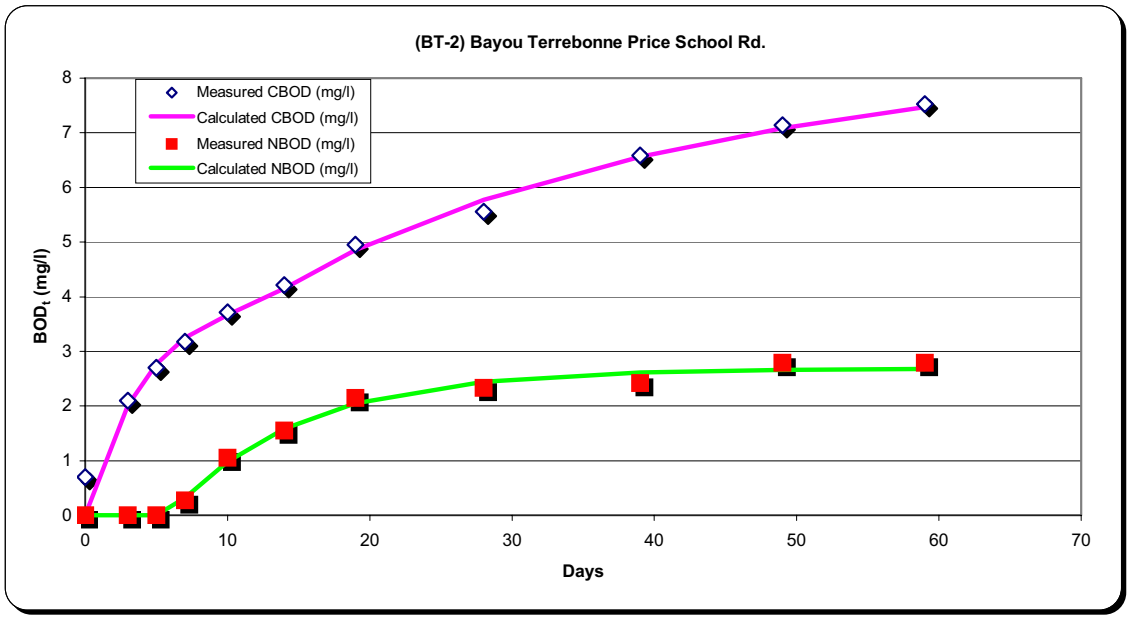


Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.
Note 5 - 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.

BT-2 BAYOU TERREBONNE AT PRICE SCHOOL ROAD

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.6844518	4.0968952	4.46979332
k rate (1/day)	0.1092708	0.225	0.03001736
Lag time (days)	5.833333	0	12.25

Breakpoint: 10th day



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.

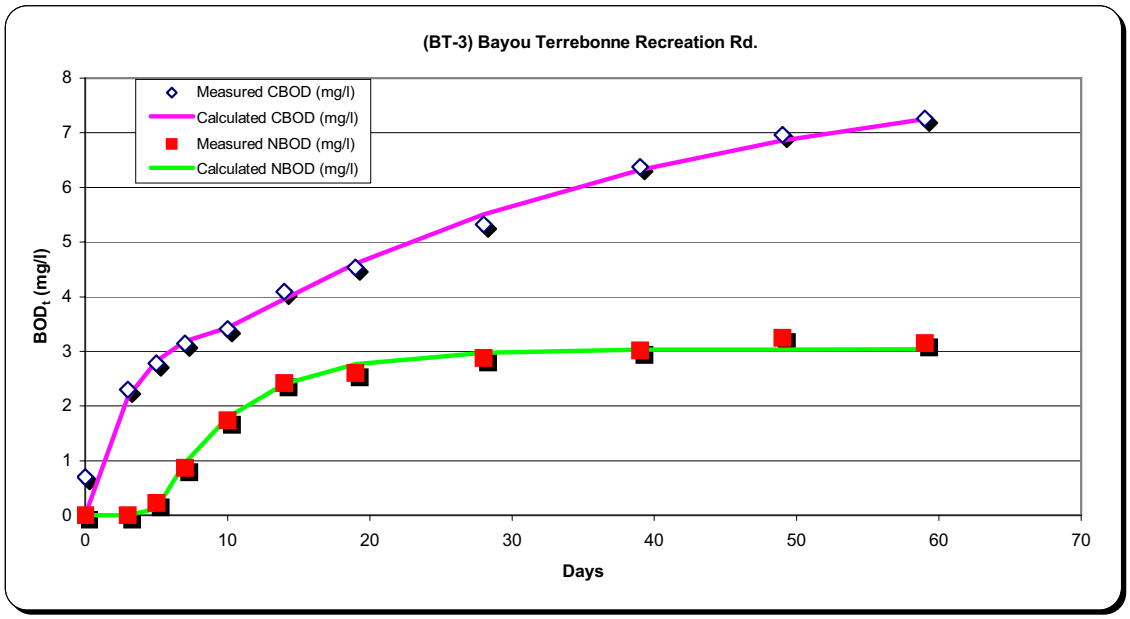
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

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.

BT-3 – BAYOU TERREBONNE AT RECREATION ROAD

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	3.0365112	3.5997362	4.77938461
k rate (1/day)	0.17	0.3069748	0.03020833
Lag time (days)	4.7638888	0	11.083333

Breakpoint: 10th day



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.

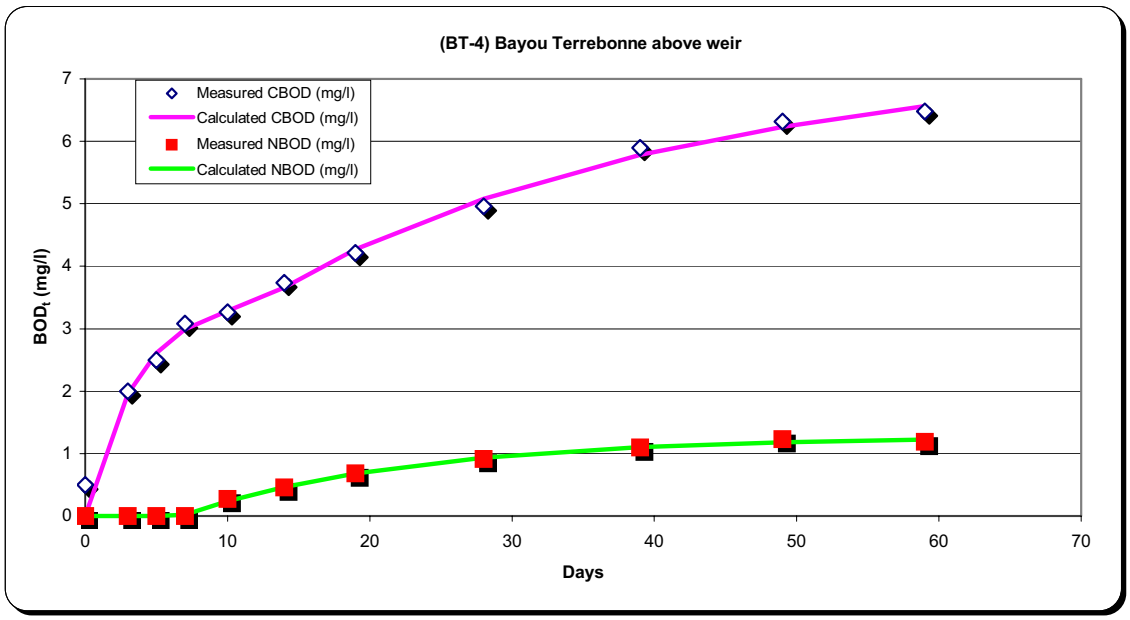
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

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.

BT-4 – BAYOU TERREBONNE UPSTREAM OF WEIR AT NORTH TERREBONNE ROAD

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	1.2679635	3.521131	3.8913486
k rate (1/day)	0.0634375	0.2696875	0.0325
Lag time (days)	6.7569442	0	12.2013893

Breakpoint: 10th day



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.

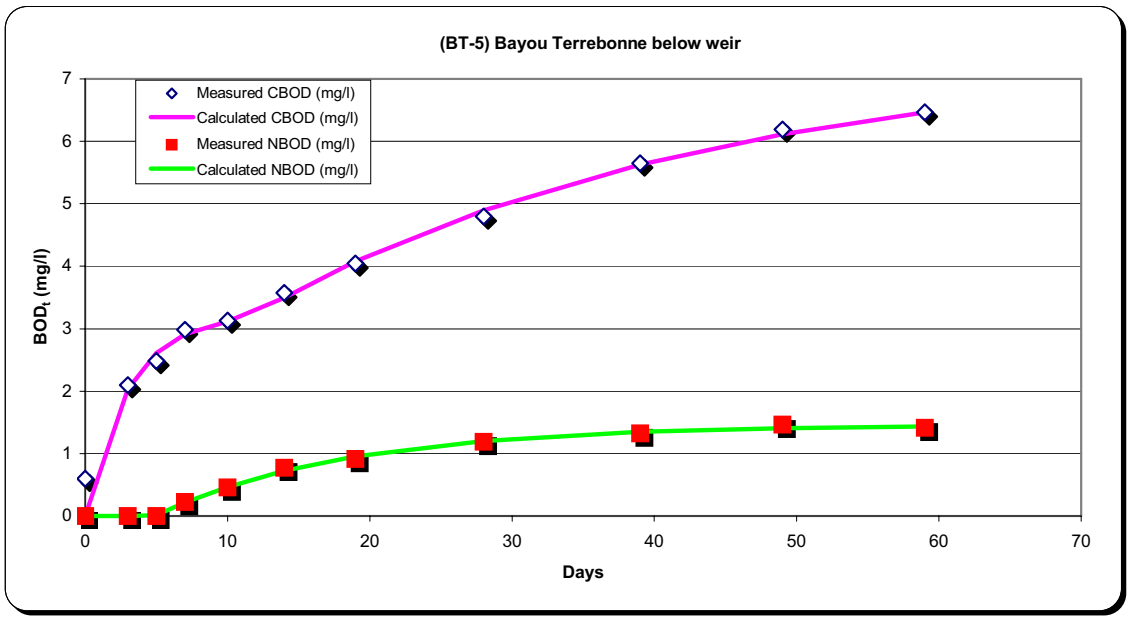
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

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.

BT-5 – BAYOU TERREBONNE DOWNSTREAM OF WEIR AT NORTH TERREBONNE ROAD

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	1.4626116	3.2355804	4.20951319
k rate (1/day)	0.0748958	0.3292708	0.03078125
Lag time (days)	4.8611107	0	11.6666679

Breakpoint: 7th day



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.

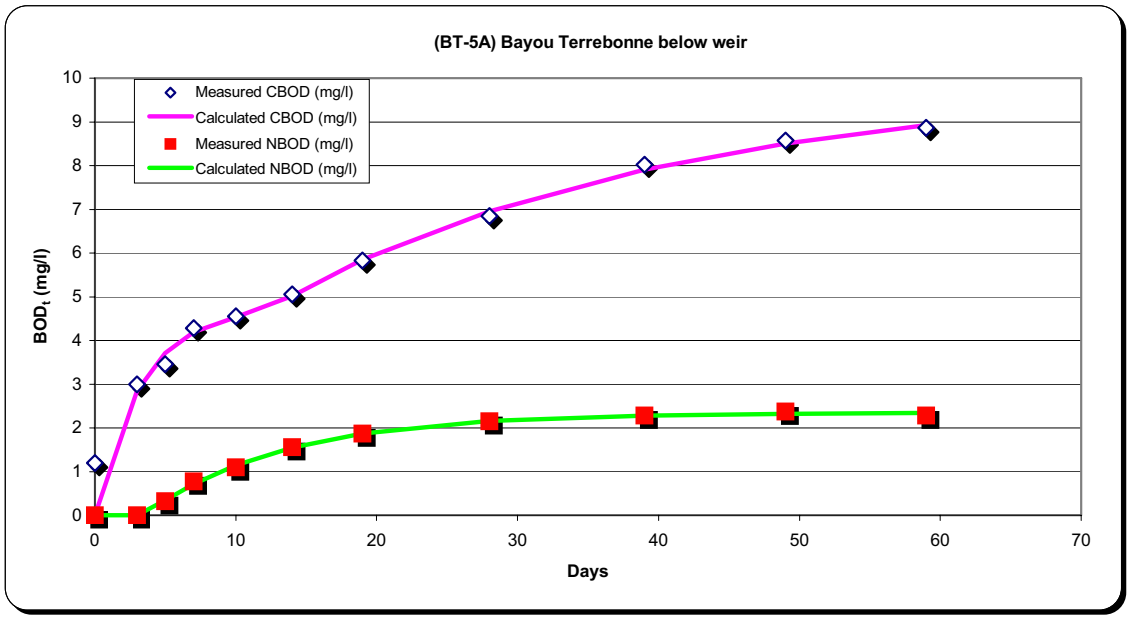
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

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.

BT-5A – BAYOU TERREBONNE DOWNSTREAM OF WEIR AT COTEAU ROAD

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.3458276	4.7629633	5.18087482
k rate (1/day)	0.1023958	0.302296	0.03479167
Lag time (days)	3.4513888	0	12.1527777

Breakpoint: 10th day



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.

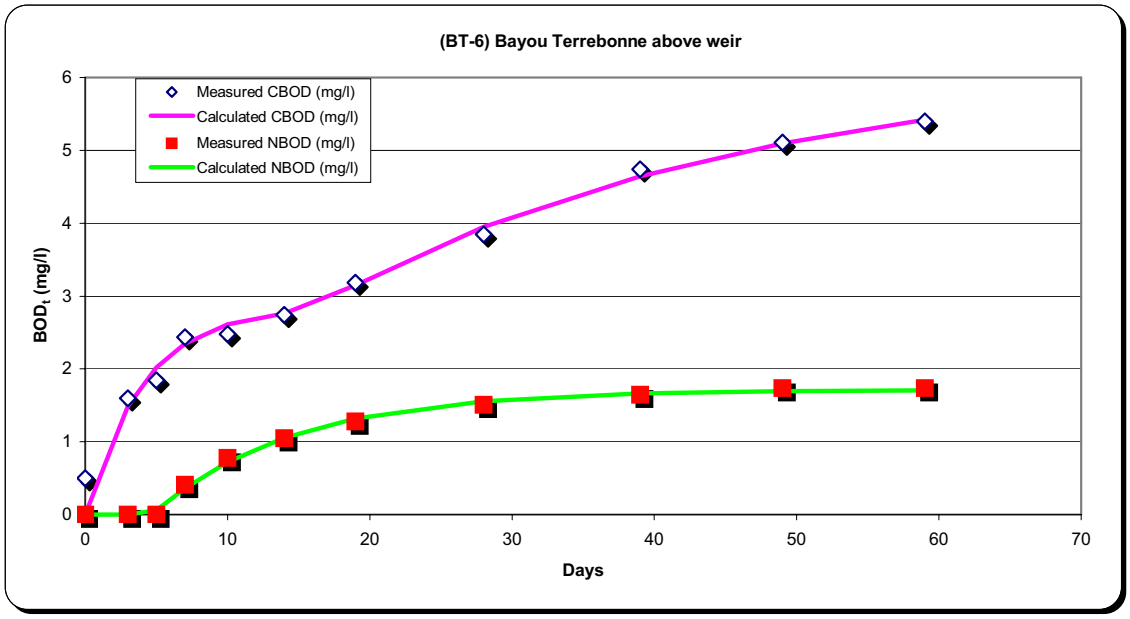
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

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.

BT-6 – BAYOU TERREBONNE UPSTREAM OF WEIR AT MALL ROAD

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	1.7124805	2.8533425	3.43728542
k rate (1/day)	0.1023958	0.2467708	0.03192708
Lag time (days)	4.6666665	0	15.9201384

Breakpoint: 7th day



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.

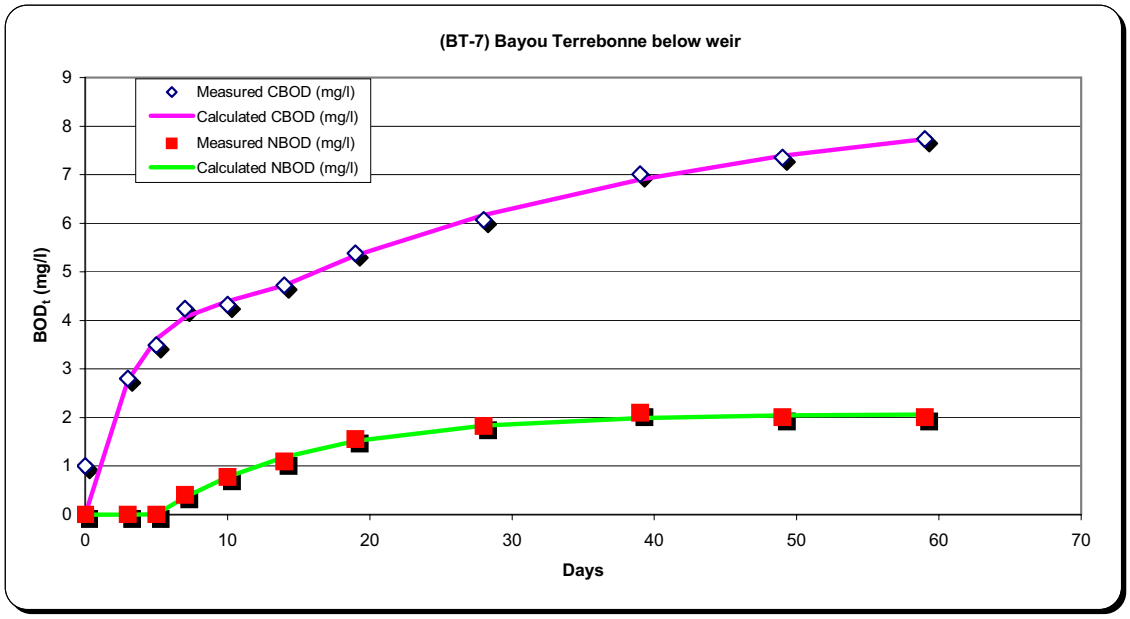
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

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.

BT-7 – BAYOU TERREBONNE DOWNSTREAM OF WEIR AT MALL ROAD

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.0759649	4.6157455	4.07200813
k rate (1/day)	0.0932292	0.3056102	0.03135417
Lag time (days)	4.958333	0	12.6388884

Breakpoint: 10th day

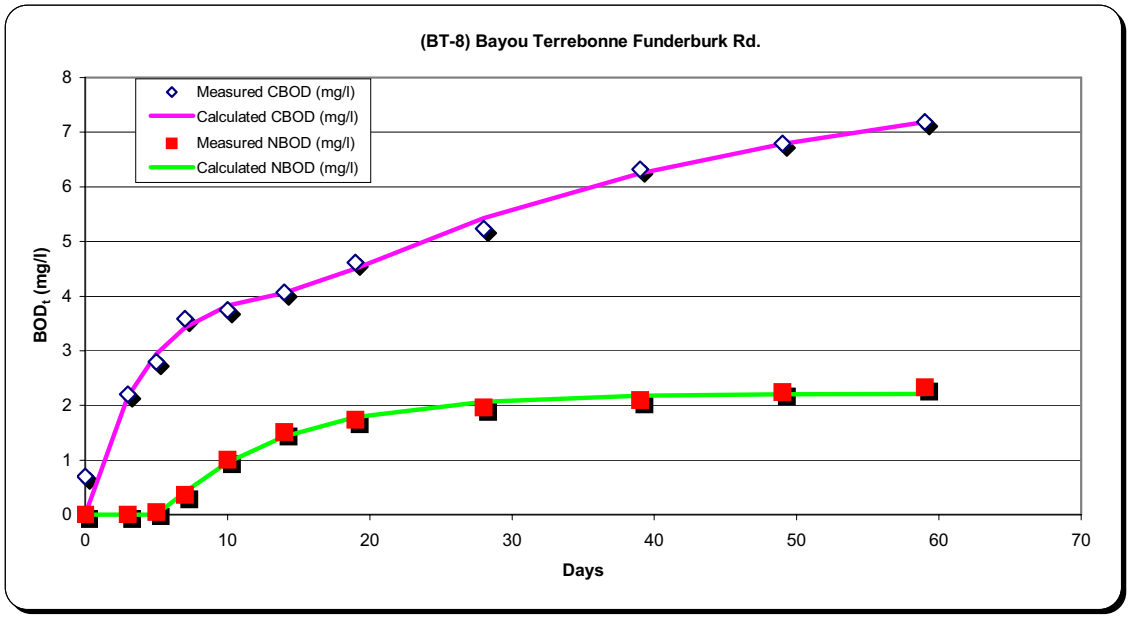


Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.
Note 5 - 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.

BT-8 – BAYOU TERREBONNE UPSTREAM AT FUNDERBURK ROAD

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.217402	4.2011056	4.17637491
k rate (1/day)	0.1184375	0.2410417	0.02925347
Lag time (days)	5.25	0	16.0416679

Breakpoint: 14th day



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.

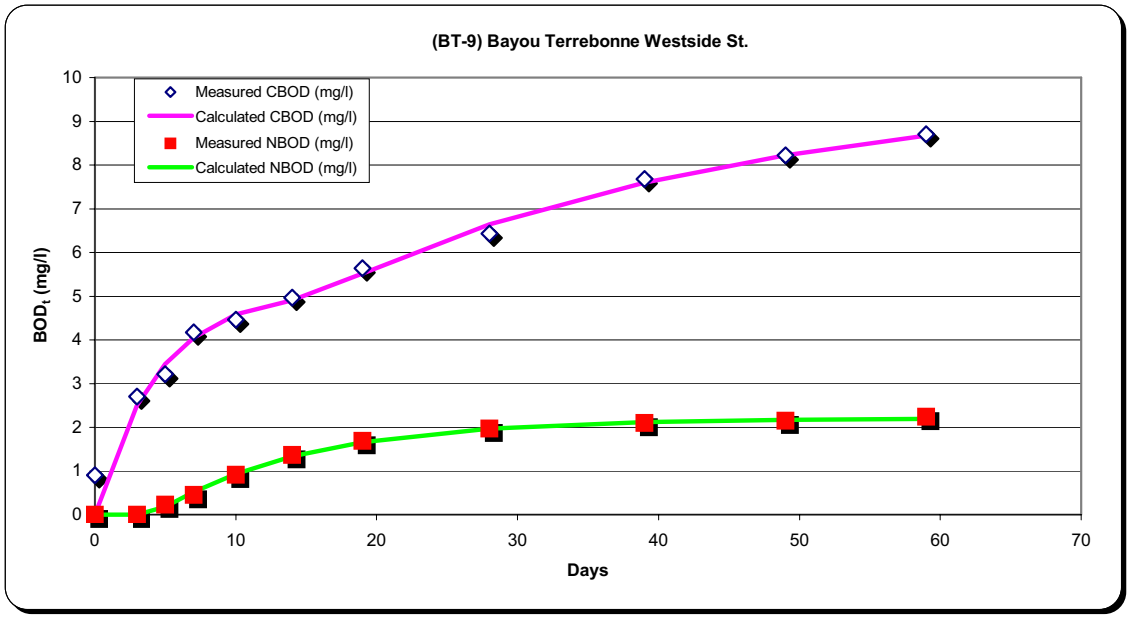
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

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.

BT-9 – BAYOU TERREBONNE UPSTREAM AT WESTSIDE ST.

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.2081985	5.1288347	4.78892899
k rate (1/day)	0.0932292	0.2231102	0.03116319
Lag time (days)	4.0833335	0	15.75

Breakpoint: 14th day



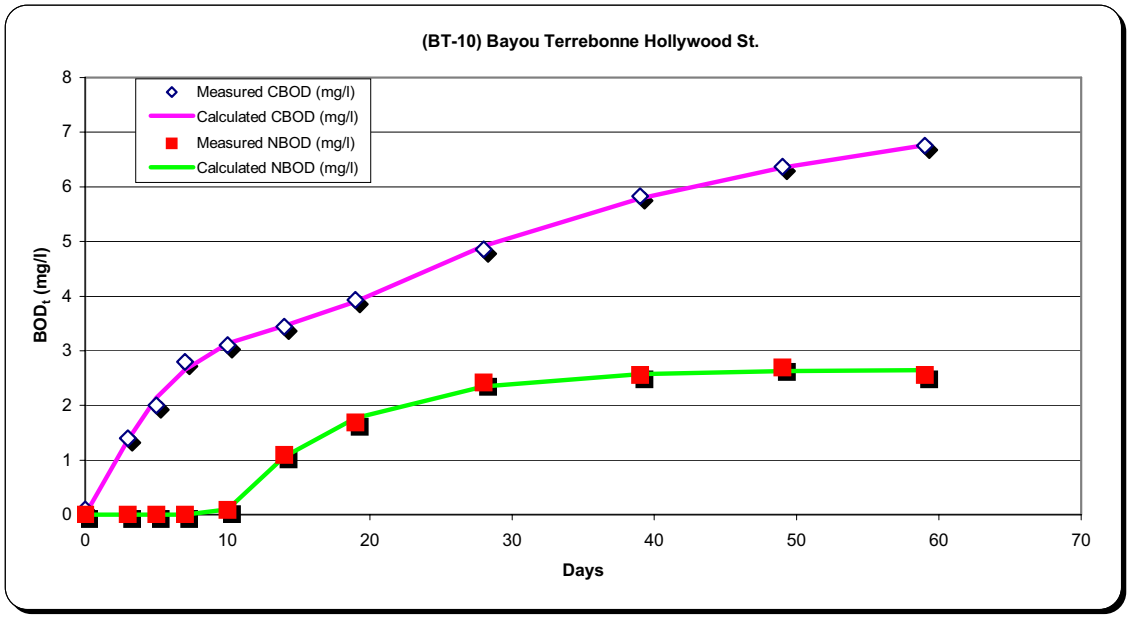
Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.
Note 5 - 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.

STREETTERREBONNE ROAD

BT-10 – BAYOU TERREBONNE AT HOLLYWOOD ST.

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.6569474	3.7334814	4.20445967
k rate (1/day)	0.1172917	0.1963542	0.03027199
Lag time (days)	9.6736107	0.6805556	16.8194447

Breakpoint: 14th day



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.

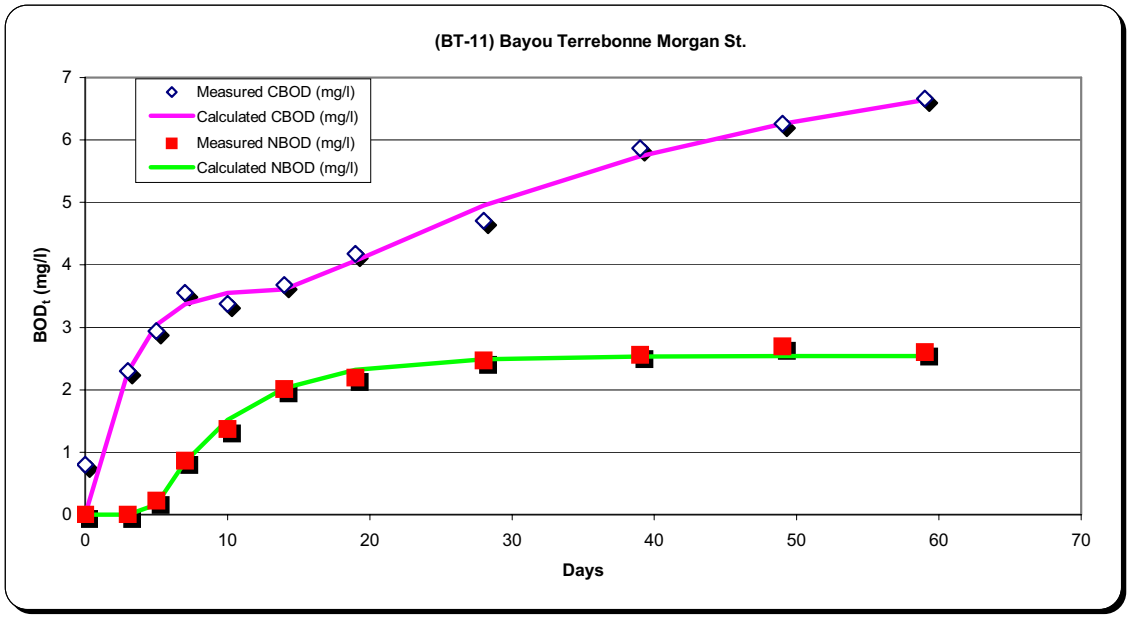
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

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.

BT-11 – BAYOU TERREBONNE UPSTREAM AT MORGAN ST.

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.5385716	3.6254988	4.06580353
k rate (1/day)	0.17	0.4117709	0.03097222
Lag time (days)	4.6180553	0.5833334	15.2638893

Breakpoint: 14th day

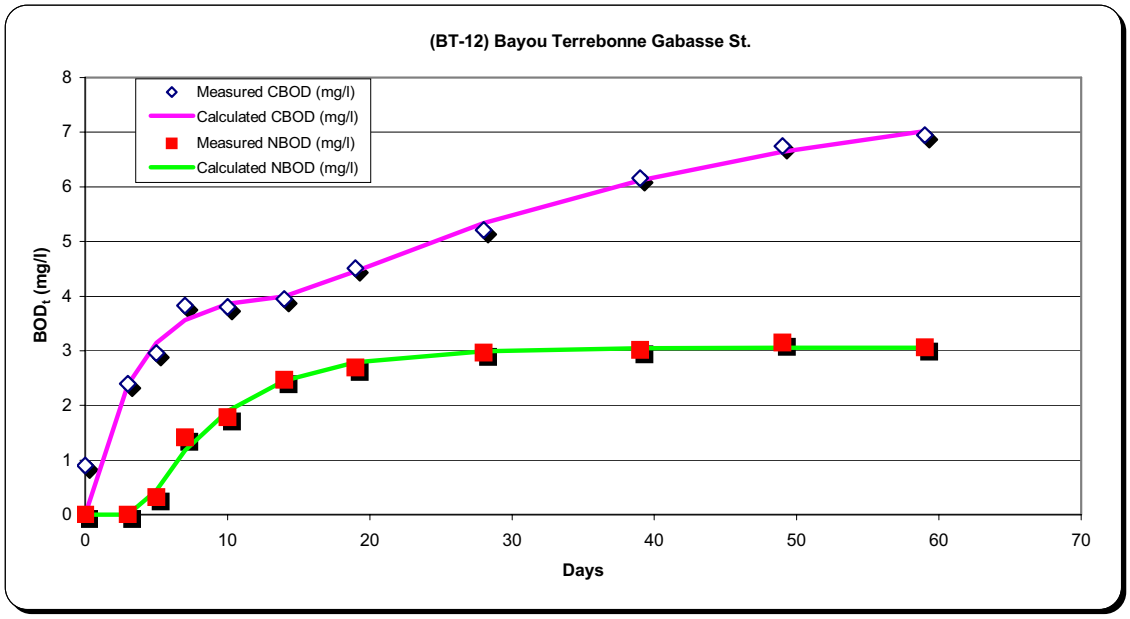


Note 1 - Days from the BOD test start date.
Note 2 - Measured total BOD at time in "Days" column.
Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.
Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.
Note 5 - 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.

BT-12 – BAYOU TERREBONNE UPSTREAM AT GABASSE ST.

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	3.0548122	4.0552235	4.02693748
k rate (1/day)	0.163125	0.3069748	0.03059028
Lag time (days)	4.0347219	0.1235532	15.4826393

Breakpoint: 14th day



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.

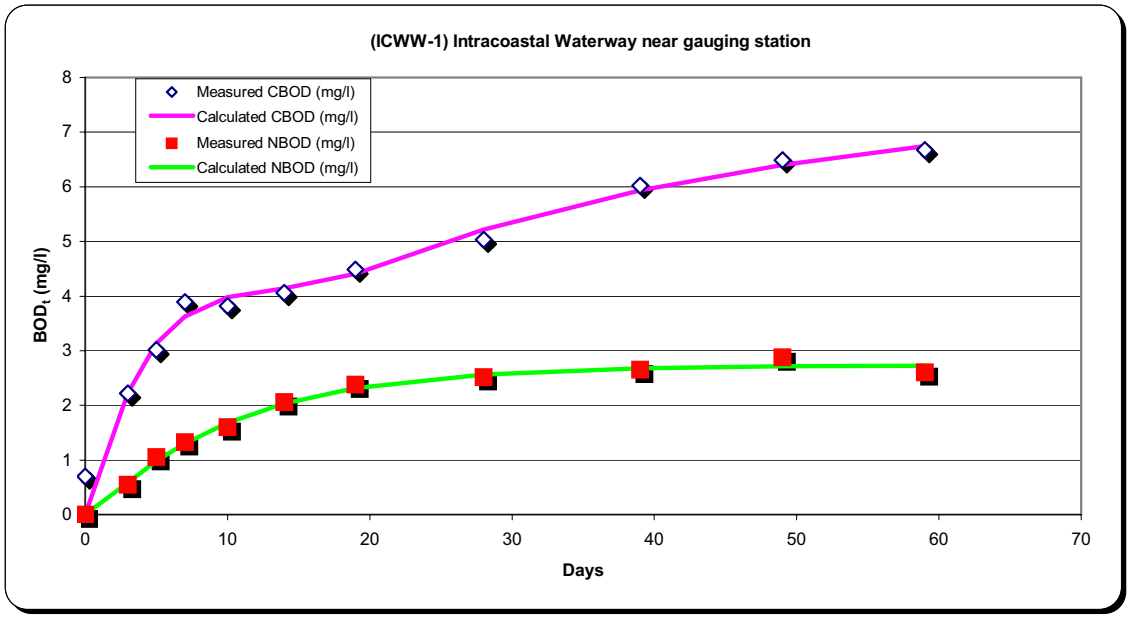
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

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.

ICWW-1 – INTRACOASTAL WATERWAY NEAR GUAGING STATION

	NBOD	CBOD1	CBOD2
UBOD (mg/l)	2.7345419	4.2082281	3.45016909
k rate (1/day)	0.1023958	0.3069748	0.03154514
Lag time (days)	0.65625	0.5509259	16.9652767

Breakpoint: 10th day



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 H6 – DYE STUDY CALCULATIONS

Bayou Terrebonne Dispersion Summary
Survey Date 8/6/03

Site ID	Run	Dispersion	
Below weir #3, near Sites BT-09b and BT-10	RUN 1	0.083	m^2/sec
	RUN 2	0.253	m^2/sec
Below weir #3, near Sites BT-10, BT-11 and BT-12	RUN 3	0.175	m^2/sec
	RUN 4	0.143	m^2/sec

Bayou Terrebonne TMDL Survey
Dye Study Cross Section Summary

Site	Date	Width (ft)	Width (meters)	Depth (ft)	Depth (meters)
Dye Dump at BT-09B	8/28/2003	28.0	8.53	3.95	1.20
Dye Run 1 and 2 US of Highland Rd. Bridge	8/28/2003	13.0	3.96	4.14	1.26
Dye run 1 DS of Highland Rd. Bridge	8/28/2003	24.0	7.31	3.53	1.08
Dye Run 2 bottom, US of BT-10	8/28/2003	23.0	7.01	4.03	1.23

BAYOU TERREBONNE DISPERSION CALCULATION DATA (SUBSEGMENT 120301)

Northing	Easting	Name	Dye Concen-tration (ug/L)	Date & Time	Distance from Dye Dump	Elapsed Time (hrs)	Datum	Zone
3277600	718446	dye dump	300ml	8/6/03 7:00	0.00	0.00	NAD 83 CONUS	Zone 15 North
3277495	718464	Run1	98.1	8/6/03 10:49	361.82	3.83	NAD 83 CONUS	Zone 15 North
3277535	718453	Run1	113	8/6/03 10:52	320.39	3.87	NAD 83 CONUS	Zone 15 North
3277558	718449	Run1	270	8/6/03 10:54	297.14	3.92	NAD 83 CONUS	Zone 15 North
3277576	718444	Run1	570	8/6/03 10:56	278.51	3.94	NAD 83 CONUS	Zone 15 North
3277595	718438	Run1	659	8/6/03 10:57	258.90	3.96	NAD 83 CONUS	Zone 15 North
3277624	718434	Run1	666	8/6/03 10:59	229.39	3.98	NAD 83 CONUS	Zone 15 North
3277652	718431	Run1	503	8/6/03 11:00	201.38	4.00	NAD 83 CONUS	Zone 15 North
3277674	718429	Run1	150	8/6/03 11:01	179.65	4.02	NAD 83 CONUS	Zone 15 North
3277716	718418	Run1	90.6	8/6/03 11:03	136.58	4.05	NAD 83 CONUS	Zone 15 North
3276951	718809	Run2	86.7	8/6/03 13:21	1028.44	6.37	NAD 83 CONUS	Zone 15 North
3277386	718490	Run2	119	8/6/03 13:41	487.93	6.70	NAD 83 CONUS	Zone 15 North
3277417	718481	Run2	195	8/6/03 13:44	456.04	6.73	NAD 83 CONUS	Zone 15 North
3277449	718475	Run2	278	8/6/03 13:45	423.71	6.76	NAD 83 CONUS	Zone 15 North
3277499	718462	Run2	264	8/6/03 13:49	372.48	6.83	NAD 83 CONUS	Zone 15 North
3277537	718452	Run2	316	8/6/03 13:51	333.22	6.86	NAD 83 CONUS	Zone 15 North
3277591	718440	Run2	364	8/6/03 13:53	278.19	6.90	NAD 83 CONUS	Zone 15 North
3277629	718433	Run2	201	8/6/03 13:55	239.30	6.93	NAD 83 CONUS	Zone 15 North
3277651	718429	Run2	120	8/6/03 13:56	216.94	6.95	NAD 83 CONUS	Zone 15 North
3277711	718418	Run2	87.9	8/6/03 13:58	156.54	6.98	NAD 83 CONUS	Zone 15 North

Northing	Easting	Name	Dye Concen-tration (ug/L)	Date & Time	Distance from Dye Dump	Elapsed Time (hrs)	Datum	Zone
3276532	721322	Run3	127	8/6/03 19:38	3717.64	12.64	NAD 83 CONUS	Zone 15 North
3276532	721143	Run3	130	8/6/03 19:41	3539.11	12.69	NAD 83 CONUS	Zone 15 North
3276495	720903	Run3	115	8/6/03 19:46	3295.50	12.78	NAD 83 CONUS	Zone 15 North
3276422	720718	Run3	114	8/6/03 19:51	3096.30	12.86	NAD 83 CONUS	Zone 15 North
3276369	720572	Run3	122	8/6/03 19:55	2939.62	12.92	NAD 83 CONUS	Zone 15 North
3276333	720277	Run3	122	8/6/03 20:00	2638.42	13.00	NAD 83 CONUS	Zone 15 North
3276429	719763	Run3	101	8/6/03 20:08	2108.70	13.15	NAD 83 CONUS	Zone 15 North
3276501	719579	Run3	95.5	8/6/03 20:14	1911.11	13.24	NAD 83 CONUS	Zone 15 North
3276746	719145	Run3	92.2	8/6/03 20:28	1411.37	13.47	NAD 83 CONUS	Zone 15 North
3276995	718760	Run3	102	8/6/03 20:42	951.80	13.71	NAD 83 CONUS	Zone 15 North
3277030	718713	Run3	139	8/6/03 20:45	895.09	13.75	NAD 83 CONUS	Zone 15 North
3277080	718676	Run3	227	8/6/03 20:46	832.43	13.78	NAD 83 CONUS	Zone 15 North
3277135	718639	Run3	326	8/6/03 20:48	767.09	13.81	NAD 83 CONUS	Zone 15 North
3277175	718610	Run3	380	8/6/03 20:50	717.52	13.85	NAD 83 CONUS	Zone 15 North
3277231	718570	Run3	338	8/6/03 20:53	649.97	13.89	NAD 83 CONUS	Zone 15 North
3277293	718537	Run4	89.8	8/7/03 9:08	572.49	26.15	NAD 83 CONUS	Zone 15 North
3277158	718623	Run4	112	8/7/03 9:13	732.09	26.22	NAD 83 CONUS	Zone 15 North
3277039	718708	Run4	151	8/7/03 9:18	877.95	26.30	NAD 83 CONUS	Zone 15 North
3276963	718790	Run4	242	8/7/03 9:20	987.94	26.35	NAD 83 CONUS	Zone 15 North
3276879	718910	Run4	292	8/7/03 9:23	1134.12	26.40	NAD 83 CONUS	Zone 15 North
3276819	719005	Run4	256	8/7/03 9:25	1246.82	26.43	NAD 83 CONUS	Zone 15 North

Northing	Easting	Name	Dye Concen-tration (ug/L)	Date & Time	Distance from Dye Dump	Elapsed Time (hrs)	Datum	Zone
3276780	719083	Run4	160	8/7/03 9:27	1333.27	26.46	NAD 83 CONUS	Zone 15 North
3276729	719172	Run4	86.6	8/7/03 9:29	1436.24	26.50	NAD 83 CONUS	Zone 15 North
3276601	719385	Run4	76.9	8/7/03 9:33	1685.39	26.56	NAD 83 CONUS	Zone 15 North
3276449	719711	Run4	79.9	8/7/03 9:42	2045.77	26.71	NAD 83 CONUS	Zone 15 North
3276528	721304	Run4	104	8/7/03 10:05	3692.96	27.09	NAD 83 CONUS	Zone 15 North
3276523	721433	Run4	117	8/7/03 10:07	3822.10	27.13	NAD 83 CONUS	Zone 15 North

6/28/2004 @ 11:00 AM

GAUSS–NEWTON NONLINEAR REGRESSION

INTRODUCTION

Curve fitting is a technique used by engineers and scientists to aid them in the analysis and interpretation of experimental data. The data is typically a "large" collection of (x,y) points. The goal is to find a mathematical model function, $f(\cdot)$, that fits the ***trend*** and the ***level*** of the data.

When performing curve fitting, one must understand two things. First, the choice of the model to be used to fit the data is just that: a choice. The form of the mathematical function is typically based on the trend of the data, some physical interpretation of the phenomena involved in an experiment, experience, or some other source of input. Second, the unknowns of the problem are the parameters of the model –and not the independent variable(s). In other words, once a model, such as the one mentioned above, is picked, the goal becomes to find ***a*** and ***b*** in order to make the curve of $f(\cdot)$ go through the (x,y) points.

In many cases, it is not possible to transform the nonlinear model into a linear one. In other cases, the transformation is possible but results in the loss of sensitivity. Under such circumstances, direct nonlinear regression should be used. There are many algorithms that have been developed specifically for this purpose. One such a model is known as the Gauss–Newton algorithm. The theoretical formulation of the algorithm and its applicability can be found in many references [1-3] and will be discussed thoroughly in class.

FLOWCHART

The following flowchart provides the basic structure of the Gauss–Newton algorithm. Given a set of (x,y) data points and a model $f(x,\mathbf{a})$. The aim is the find the vector of parameters, **a**, such that the mean square error between data and model is minimum. The steps involved in finding the solution using the Gauss–Newton algorithm are:

(1) Pick an initial guess for each parameter.
(2) Compute the matrix **Z**.
(3) Compute the difference vector **D**.
(4) Compute the perturbation in the parameters $\Delta\mathbf{a} = \left[\left(((\mathbf{Z}))^{T}\cdot\mathbf{Z}\right)^{-1}\cdot((\mathbf{Z}))^{T}\right]\cdot\mathbf{D}$.
(5) Update the new parameters $\mathbf{a} = \mathbf{a} + \Delta\mathbf{a}$
(6) Keep updating until you meet your convergence criteria.

REFERENCES

[1] Chapra, S. C. and Canale, R. P., Numerical Methods For Engineers, McGraw Hill, 1988
[2] Lastman G. J. and Sinha N. K., Microcomputer-Based Numerical Methods for Science and Engineering, Saunders College Publishing, 1989
[3] Mathews J. H., Numerical Methods for Mathematics, Science, and Engineering, Prentice Hall, 1992
[4] Mathsoft, Mathcad User's Guide, Mathsoft, 1995

Mathcad IMPLEMENTATION

The Gauss–Newton algorithm was implemented using the new programming capability of Mathcad PLUS 6.0. The function $GN(X, Y, F, \mathbf{a}, Max)$ works as follows:

(1) The user provides several inputs:

(a) X and Y are two arrays containing the experimental data. The data need not be sorted.
(b) F is a vector function containing the model as its first element. Subsequent elements contain the derivatives of the model with respect to each of the parameters (the Mathcad symbolic processor may be used to find these derivatives).
(c) **a** is the vector containing the initial guesses of the parameters of the model.
(d) Max represent the maximum number of iterations that the user allows.

(2) Mathcad returns the last estimate of the parameters.

```
GN(X,Y,F,a,Max) := | for Iteration ∈ 0..Max
                   |   | for j ∈ 0..last(a)
                   |   |   for i ∈ 0..last(X)
                   |   |     Z_{i,j} ← F(X_i,a)_{j+1}
                   |   | for i ∈ 0..last(X)
                   |   |   Y1_i ← F(X_i,a)_0
                   |   | Δa ← (Z^T·Z)^{-1}·Z^T·(Y − Y1)
                   |   | b ← a
                   |   | a ← b + Δa
                   | a
```

$$\text{Experimental\_Data\_Run4} := \begin{pmatrix} 572.4901688 & 0 \\ 732.0926327 & 12 \\ 877.9479425 & 51 \\ 987.9355696 & 142 \\ 1134.122817 & 192 \\ 1246.821528 & 156 \\ 1333.272138 & 60 \\ 1436.243938 & 0 \end{pmatrix}$$

6/28/2004 @ 11:00 AM

From experience, it is known that a suitable model for the above data has the form:

$$\frac{1\cdot 10^{6}\cdot m_{dye}}{A_x\cdot 4\cdot \pi\cdot\left(0.11\cdot u\cdot \frac{w^2}{h}\right)\cdot t}\cdot e^{\frac{(x-u_{adv}\cdot t)^2}{-4\cdot\left(0.11\cdot u\cdot \frac{w^2}{h}\right)\cdot t}}$$

Solution

Distance from injection point (meters): $x := (\text{Experimental\_Data\_Run4})^{\langle 0\rangle}$

Dye Concentration (μg/L or ppb): $y := \text{Experimental\_Data\_Run4}^{\langle 1\rangle}$

Depth of stream (meters): $h := 1.219$

Width of stream (meters): $w := 7.315$

Cross sectional area of stream (m^2): $A_x := w\cdot h$ $\quad A_x = 8.917$

Time elapsed since dye injection (sec): $t := 9.549\times 10^{4}$

Mass of dye injected (kg): $m_{dye} := 4.082\cdot 0.2$

Assumed 4.082 kg (9lbs.) of solution.
Solution is 20% dye so mult by 0.2.

Concentration function:

$$f(x, K_d, u_{adv}) := \frac{1\cdot 10^{6}\cdot m_{dye}}{A_x\cdot(4\cdot\pi\cdot K_d\cdot t)^{0.5}}\cdot e^{\frac{(x-u_{adv}\cdot t)^2}{-4\cdot K_d\cdot t}}$$

Page 3

6/28/2004 @ 11:00 AM

First, we need to give initial guesses to the unknown parameters ***a*** **(K_d)** and ***b*** **(u_{adv})**. Note that these 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.

$$\mathbf{a} := \begin{pmatrix} 0.02 \\ 0.01 \end{pmatrix}$$

Second, we need to build a vector function $F(x,\mathbf{a})$ that contains the model and its derivatives with respect to ***a*** and ***b***.

$$F(x,\mathbf{a}) := \begin{bmatrix} \dfrac{1\cdot 10^{6}\cdot m_{dye}}{A_x\cdot(4\cdot\pi\cdot\mathbf{a}_0\cdot t)^{0.5}}\cdot e^{\frac{(x-\mathbf{a}_1\cdot t)^2}{-4\cdot\mathbf{a}_0\cdot t}} \\ -250000\cdot\dfrac{m_{dye}}{A_x\cdot(\pi\cdot\mathbf{a}_0\cdot t)^{1.5}}\cdot\exp\left[\dfrac{-1}{4}\cdot\dfrac{(x-\mathbf{a}_1\cdot t)^2}{\mathbf{a}_0\cdot t}\right]\cdot\pi\cdot t + 125000\cdot\dfrac{m_{dye}}{A_x\cdot(\pi\cdot\mathbf{a}_0\cdot t)^{.5}}\cdot\dfrac{(x-\mathbf{a}_1\cdot t)^2}{(\mathbf{a}_0)^2\cdot t}\cdot\exp\left[\dfrac{-1}{4}\cdot\dfrac{(x-\mathbf{a}_1\cdot t)^2}{\mathbf{a}_0\cdot t}\right] \\ 250000\cdot\dfrac{m_{dye}}{A_x\cdot(\pi\cdot\mathbf{a}_0\cdot t)^{.5}}\cdot\dfrac{(x-\mathbf{a}_1\cdot t)}{\mathbf{a}_0}\cdot\exp\left[\dfrac{-1}{4}\cdot\dfrac{(x-\mathbf{a}_1\cdot t)^2}{\mathbf{a}_0\cdot t}\right] \end{bmatrix}$$

After five iterations: $\begin{pmatrix} K_d \\ u_{adv} \end{pmatrix} := GN(x,y,F,\mathbf{a},5)$

$K_d = 0.143$ $\quad u_{adv} = 0.012$ $\quad Model(v) := f(v,K_d,u_{adv})$ $\quad ry(x,y,Model) = 94.679\%$

After ten iterations: $\begin{pmatrix} K_d \\ u_{adv} \end{pmatrix} := GN(x,y,F,\mathbf{a},10)$

$K_d = 0.142648$ $\quad u_{adv} = 0.011643$ $\quad Model(v) := f(v,K_d,u_{adv})$ $\quad ry(x,y,Model) = 94.679\%$

After one hundred iterations: $\begin{pmatrix} K_d \\ u_{adv} \end{pmatrix} := GN(x,y,F,\mathbf{a},100)$

$K_d = 0.142648$ $\quad u_{adv} = 0.011643$ $\quad Model(v) := f(v,K_d,u_{adv})$ $\quad ry(x,y,Model) = 94.679\%$

Dispersion (m^2/sec): $K_d\cdot m^2\cdot sec^{-1} = 0.143\,\dfrac{m^2}{sec}$ Advective velocity (m/sec): $u_{adv}\cdot m\cdot sec^{-1} = 0.012\,\dfrac{m}{sec}$

Model accounts for $ry(x,y,Model) = 94.679\%$ of data.

Page 4

6/28/2004 @ 11:00 AM

$xn := \min(x)\cdot.90 .. \max(x)\cdot 1.05 \qquad i := 0 .. last(x)$

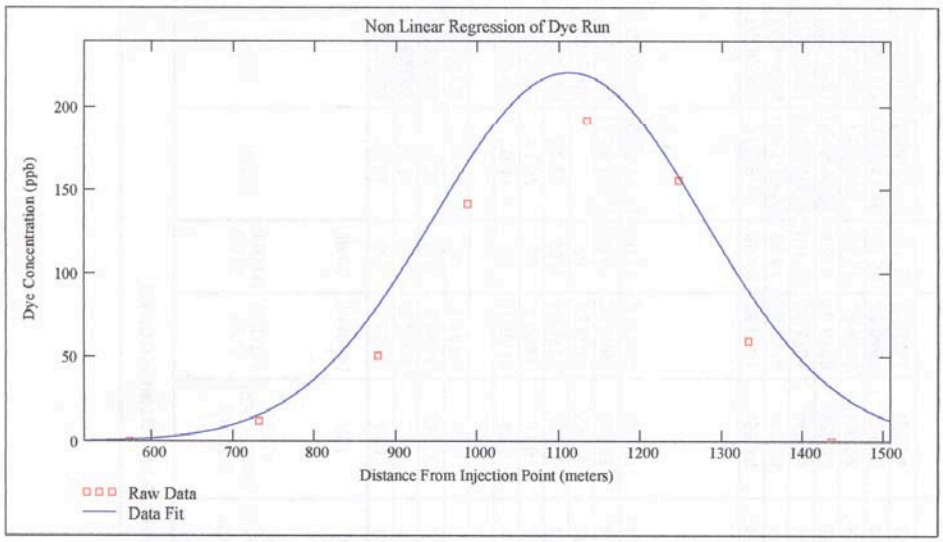


Figure 1: Final fit of the data using the Gauss-Newton algorithm

THE GOODNESS OF FIT

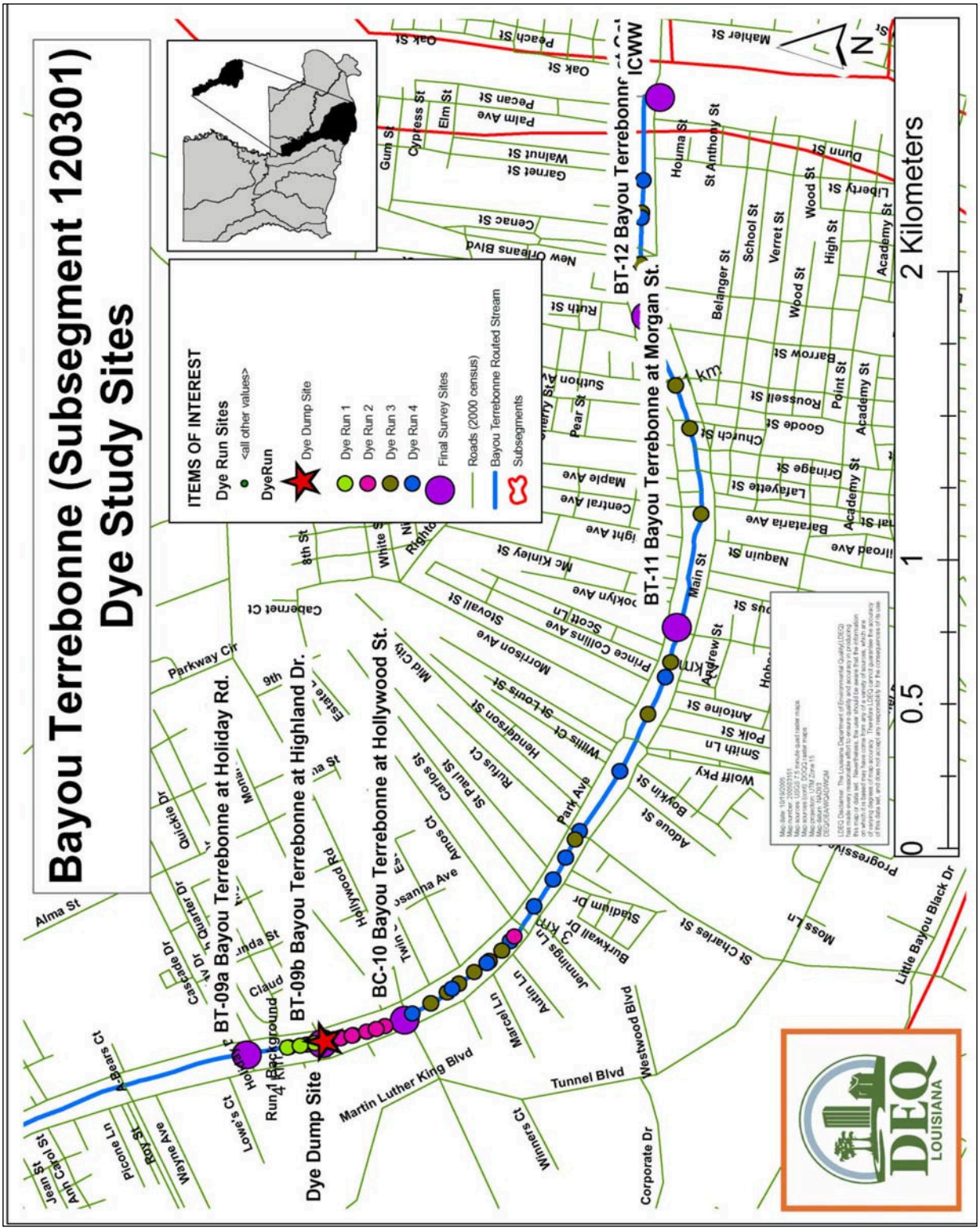
Total Sum of Squares: $S_{ty}(Y) \equiv \left(\left|Y - \text{mean}(Y)\right|\right)^2$ $\qquad S_{ty}(y) = 4.074 \times 10^4$

Error Sum of Squares: $S_{ry}(X, Y, \text{Model}) \equiv \left(\left|Y - \overrightarrow{\text{Model}(X)}\right|\right)^2$ $\qquad S_{ry}(x, y, \text{Model}) = 4.220 \times 10^3$

Regression Sum of Squares: $S_{ty}(Y) - S_{ry}(X, Y, \text{Model})$ $\qquad S_{ty}(y) - S_{ry}(x, y, \text{Model}) = 3.652 \times 10^4$

Proportion of Variance: $ry(X, Y, \text{Model}) \equiv \sqrt{\dfrac{S_{ty}(Y) - S_{ry}(X, Y, \text{Model})}{S_{ty}(Y)}}$ $\qquad ry(x, y, \text{Model}) = 0.947$

Page 5


Bayou Terrebonne (Subsegment 120301)
Dye Study Sites
ITEMS OF INTEREST
Dye Run Sites
<all other values>
DyeRun
Dye Dump Site
Dye Run 1
Dye Run 2
Dye Run 3
Dye Run 4
Final Survey Sites
Roads (2000 census)
Bayou Terrebonne Routed Stream
Subsegments
BT-09a Bayou Terrebonne at Holiday Rd.
BT-09b Bayou Terrebonne at Highland Dr.
BC-10 Bayou Terrebonne at Hollywood St.
BT-11 Bayou Terrebonne at Morgan St.
BT-12 Bayou Terrebonne
ICWW
Dye Dump Site
Run 1
Run 2
Run 3
Run 4
0
0.5
1
2 Kilometers
N
DEQ
LOUISIANA

STREAM CROSS-SECTION SPREADSHEET

Site Number: BT-09B **Subsegment:** 120301 **Waterbody:** Bayou Terrebonne

Site Description: Dye Dump, Dye Mid for run 1 and 2/@BT-09B

Type of Equipment: ☐ Fathometer ☐ Hydrotrac ☑ Manual

Initial Bank: ☐ RDB ☑ LDB

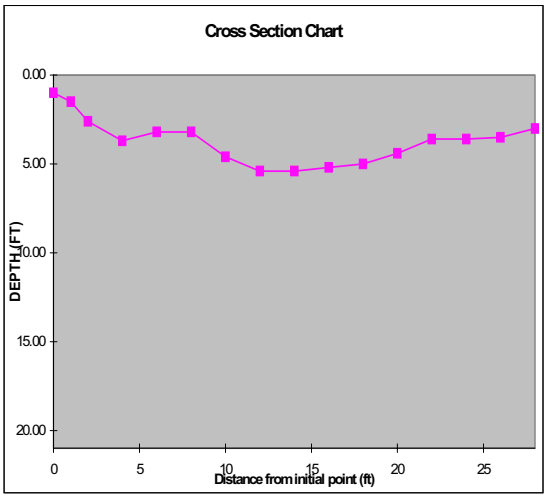
Tapedown: 7.04

Guage Height:

Date: 8/28/2003

WIDTH[1] (ft):	28.00
AREA[2] (ft²):	110.50
AVG. DEPTH[3] (ft):	3.95

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	0.50	1.00	0.50	
2	1.0	1.00	1.50	1.50	1.36%
3	2.0	1.50	2.60	3.90	3.53%
4	4.0	2.00	3.70	7.40	6.70%
5	6.0	2.00	3.20	6.40	5.79%
6	8.0	2.00	3.20	6.40	5.79%
7	10.0	2.00	4.60	9.20	8.33%
8	12.0	2.00	5.40	10.80	9.77%
9	14.0	2.00	5.40	10.80	9.77%
10	16.0	2.00	5.20	10.40	9.41%
11	18.0	2.00	5.00	10.00	9.05%
12	20.0	2.00	4.40	8.80	7.96%
13	22.0	2.00	3.60	7.20	6.52%
14	24.0	2.00	3.60	7.20	6.52%
15	26.0	2.00	3.50	7.00	6.33%
16	28.0	1.00	3.00	3.00	2.71%
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	28.00		110.50	99.55%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow, R	Data Inputed by / Date:	Farlow, R
Notetaker/Recorder:	Butler, R	Data Input Checked by / Date:	Butler, R
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: N/A **Subsegment:** 120301 **Waterbody:** Bayou Terrebonne

Site Description: Dye run 1 and 2 Top/upstream of Highland Dr. Bridge

Type of Equipment: ☐ Fathometer ☐ Hydrotrac ☑ Manual

Initial Bank: ☑ RDB ☐ LDB

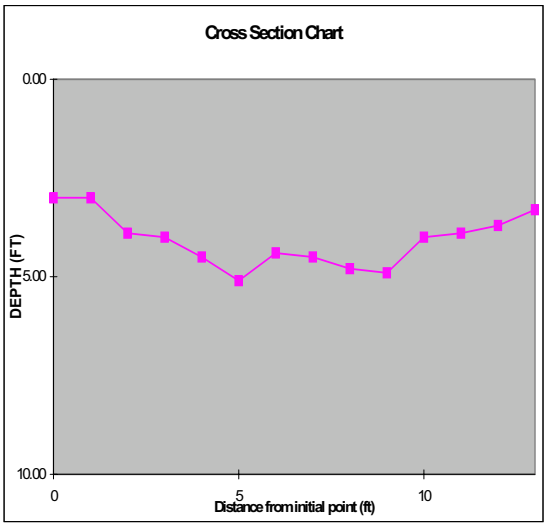
Tapedown: 7.04

Guage Height:

Date: 8/28/2003

WIDTH[1] (ft):	13.00
AREA[2] (ft²):	53.85
AVG. DEPTH[3] (ft):	4.14

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	0.50	3.00	1.50	
2	1.0	1.00	3.00	3.00	5.57%
3	2.0	1.00	3.90	3.90	7.24%
4	3.0	1.00	4.00	4.00	7.43%
5	4.0	1.00	4.50	4.50	8.36%
6	5.0	1.00	5.10	5.10	9.47%
7	6.0	1.00	4.40	4.40	8.17%
8	7.0	1.00	4.50	4.50	8.36%
9	8.0	1.00	4.80	4.80	8.91%
10	9.0	1.00	4.90	4.90	9.10%
11	10.0	1.00	4.00	4.00	7.43%
12	11.0	1.00	3.90	3.90	7.24%
13	12.0	1.00	3.70	3.70	6.87%
14	13.0	0.50	3.30	1.65	3.06%
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	13.00		53.85	97.21%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow, R	Data Inputed by / Date:	Farlow, R
Notetaker/Recorder:	Butler, R	Data Input Checked by / Date:	Butler, R
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: N/A **Subsegment:** 120301 **Waterbody:** Bayou Terrebonne

Site Description: Dye Run 1 Bottom/downstream of Highland Dr. Bridge

Type of Equipment: ☐ Fathometer ☐ Hydrotrac ☑ Manual

Initial Bank: ☑ RDB ☐ LDB

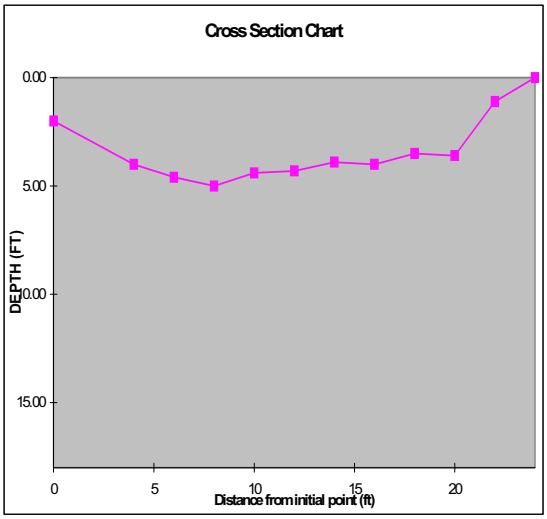
Tapedown: 7.04

Guage Height:

Date: 8/28/2003

WIDTH[1] (ft):	24.00
AREA[2] (ft^2):	84.80
AVG. DEPTH[3] (ft):	3.53

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	2.00	2.00	4.00	
2	4.0	3.00	4.00	12.00	14.15%
3	6.0	2.00	4.60	9.20	10.85%
4	8.0	2.00	5.00	10.00	11.79%
5	10.0	2.00	4.40	8.80	10.38%
6	12.0	2.00	4.30	8.60	10.14%
7	14.0	2.00	3.90	7.80	9.20%
8	16.0	2.00	4.00	8.00	9.43%
9	18.0	2.00	3.50	7.00	8.25%
10	20.0	2.00	3.60	7.20	8.49%
11	22.0	2.00	1.10	2.20	2.59%
12	24.0	1.00	0.00	0.00	0.00%
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	24.00		84.80	95.28%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow, R	Data Inputed by / Date:	Farlow, R
Notetaker/Recorder:	Butler, R	Data Input Checked by / Date:	Butler, R
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: N/A **Subsegment:** 120301 **Waterbody:** Bayou Terrebonne

Site Description: Dye Run 2 Bottom/upstream of BT-10

Type of Equipment: ☐ Fathometer ☐ Hydrotrac ☑ Manual

Initial Bank: ☑ RDB ☐ LDB

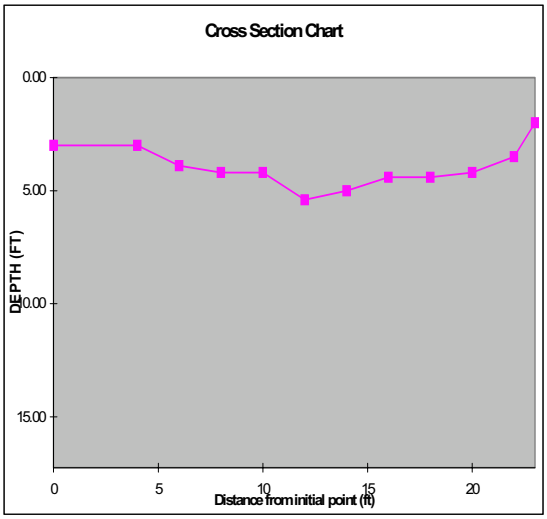
Tapedown: 7.04

Guage Height:

Date: 8/28/2003

WIDTH[1] (ft):	23.00
AREA[2] (ft²):	92.65
AVG. DEPTH[3] (ft):	4.03

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	2.00	3.00	6.00	
2	4.0	3.00	3.00	9.00	9.71%
3	6.0	2.00	3.90	7.80	8.42%
4	8.0	2.00	4.20	8.40	9.07%
5	10.0	2.00	4.20	8.40	9.07%
6	12.0	2.00	5.40	10.80	11.66%
7	14.0	2.00	5.00	10.00	10.79%
8	16.0	2.00	4.40	8.80	9.50%
9	18.0	2.00	4.40	8.80	9.50%
10	20.0	2.00	4.20	8.40	9.07%
11	22.0	1.50	3.50	5.25	5.67%
12	23.0	0.50	2.00	1.00	1.08%
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	23.00		92.65	93.52%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow, R	Data Inputed by / Date:	Farlow, R
Notetaker/Recorder:	Butler, R	Data Input Checked by / Date:	Butler, R
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 H7 – WEATHER DATA

Bayou Terrebonne Weather Station Data

Date & Time	Temperature Average ° C	Dry Bulb Average ° C	Wet Bulb Average ° C	Wind Speed Minimum KPH	Wind Speed Average KPH	Wind Speed Maximum KPH	Wind Direction Minimum °	Wind Direction Average °	Wind Direction Maximum °	Barometer Average mm_Hg	Rain Total mm	Humidity %	Flux Density Minimum W/m^{-2}	Flux Density Average W/m^{-2}	Flux Density Maximum W/m^{-2}
8/5/2003 11:30	28.5	24.6	25.6	5	9.9	16.3	144.2	203.5	203.5	762	0.25	79.6	76.5	96.7	110.5
8/5/2003 11:45	27.8	24.6	25.4	2.7	5.5	8.8	107.2	147	147	762	0	82.6	110.8	259.1	624.6
8/5/2003 12:00	30	23.9	25.6	2.5	5.2	9.6	46.1	108	108	762	0	70	263	538	612.2
8/5/2003 12:15	31	24.4	26.1	4.2	9.6	18.3	112.1	170.9	170.9	763	0	67.71	272.9	570.8	771
8/5/2003 12:30	30	23.6	25.3	5	9	14.2	143.5	201.2	201.2	763	0	68.29	205.8	449.6	738
8/5/2003 12:45	30.6	23	25.1	3.9	8.2	11.9	121.7	191	191	763	0	63.86	542.3	605.1	661.2
8/5/2003 13:00	31.6	22.7	25.2	3.3	8.4	16	104.1	169.5	169.5	763	0	59.47	586.2	589.7	597.1
8/5/2003 13:15	31.8	22.7	25.2	6.2	9.6	14	136.4	178.4	178.4	762	0	58.34	536.9	581.8	599.4
8/5/2003 13:30	32.4	22.9	25.5	3	7.1	12.2	84.7	156.4	156.4	762	0	57.36	542.9	580.9	610.5
8/5/2003 13:45	32.5	22.3	25.2	3.3	8	14.5	68.8	146.4	146.4	762	0	54.99	332.4	481.5	567
8/5/2003 14:00	32.5	22.5	25.3	4.2	8.4	13.4	112	166.8	166.8	762	0	55.46	152.9	438	593
8/5/2003 14:15	32.6	23.1	25.7	5.6	9.6	14	70.9	150.2	150.2	762	0	57.18	244.3	513.5	558.7
8/5/2003 14:30	32.8	23.5	26	4.5	10.7	20.6	99.6	149.4	149.4	762	0	58.32	542	555.4	568.7
8/5/2003	32.6	23.7	26.1	5	9.9	16.3	87.8	154.2	154.2	762	0	59.52	136.7	534.8	565.9

Bayou Terrebonne Weather Station Data

Date & Time	Temperature	Dry Bulb	Wet Bulb	Wind Speed	Wind Speed	Wind Speed	Wind Direction	Wind Direction	Wind Direction	Barometer	Rain	Humidity	Flux Density	Flux Density	Flux Density
14:45															
8/5/2003 15:00	32.6	23.7	26.1	5.9	11	16.3	70.9	144.5	144.5	762	0	59.45	120.6	499.3	577.6
8/5/2003 15:15	32.9	23.2	25.8	4.5	9.9	15.7	86	152.2	152.2	762	0	56.76	374.2	532.4	555.7
8/5/2003 15:30	32.9	22.6	25.5	6.2	11.4	17.4	92.4	152	152	762	0	54.83	491.2	508.4	527
8/5/2003 15:45	33.1	22.5	25.4	6.2	9.7	14	127.7	168.5	168.5	762	0	53.81	463.1	480.2	504.9
8/5/2003 16:00	33.1	22.4	25.4	6.5	10.7	15.7	94.2	143	143	762	0	53.45	327.1	469.3	497.1
8/5/2003 16:15	33.1	22.3	25.3	6.2	11.4	16.3	73.4	134.4	134.4	761	0	53.21	325.5	430.7	477.9
8/5/2003 16:30	33	22.5	25.4	5.6	10.9	16.5	99.2	131.9	131.9	761	0	54.28	274	394	456.6
8/5/2003 16:45	33	22.3	25.2	5.6	11.4	18	103.3	149.3	149.3	761	0	53.37	404.3	422.5	440
8/5/2003 17:00	32.8	21.8	24.9	5.6	11.1	16	112.2	152.2	152.2	761	0	52.4	174.3	334.9	401.6
8/5/2003 17:15	32	21.4	24.4	5.6	10.8	15.4	87.6	135.8	135.8	761	0	53.45	154	181.3	277.9
8/5/2003 17:30	31.3	21.4	24.3	5.6	9.8	17.1	95	140.9	140.9	761	0	55.77	133.1	144.6	190.4
8/5/2003 17:45	31	21.8	24.4	5	9	14.8	104.8	141.1	141.1	761	0	58.12	68.06	118.5	233.7
8/5/2003 18:00	30.5	22.5	24.7	3.9	8.3	11.9	101.2	158.4	158.4	761	0	62.27	21.23	37.74	66.96
8/5/2003 18:15	29.9	23.2	25.1	4.2	7.2	12.2	108.9	158.7	158.7	761	0	67.34	7.18	11.87	20.83

Bayou Terrebonne Weather Station Data

Date & Time	Temperature	Dry Bulb	Wet Bulb	Wind Speed	Wind Speed	Wind Speed	Wind Direction	Wind Direction	Wind Direction	Barometer	Rain	Humidity	Flux Density	Flux Density	Flux Density
8/5/2003 18:30	29.5	23.4	25.1	3	5.4	9.9	119.8	183.9	183.9	761	0	70	1.495	4.436	7.18
8/5/2003 18:45	29.3	23.6	25.1	2.2	4.9	9.1	165.3	231.8	231.8	761	0	71.3	0	0.354	1.395
8/5/2003 19:00	28.8	24	25.3	3	6	10.2	196.7	275	275	761	0	75.1	0	0	0
8/5/2003 19:15	27	24.4	25.1	1.3	5.5	11.4	244.5	298.5	298.5	761	0	85.6	0	0	0
8/5/2003 19:30	26.2	24.1	24.7	4.8	8.6	14.5	235	290.1	290.1	761	0	88	0	0	0
8/5/2003 19:45	25.3	23.6	24.1	4.2	6.5	11.1	268.2	303.8	303.8	761	0	90	0	0	0
8/5/2003 20:00	25.1	23.5	23.9	4.5	7	9.9	258.9	288.9	288.9	761	0	90.3	0	0	0
8/5/2003 20:15	24.9	23.3	23.7	2.5	5.2	8.8	245.7	285.6	285.6	761	0	90.7	0	0	0
8/5/2003 20:30	24.9	23.5	23.9	1.6	2.4	3.3	0.2	219.1	219.1	761	0.25	91.9	0	0	0
8/5/2003 20:45	24.9	23.7	24	2.7	4	5.6	-1.4	35.9	35.9	761	0	92.6	0	0	0
8/5/2003 21:00	24.7	23.6	23.9	2.2	3.5	5.3	2.1	52.8	52.8	761	0.25	93.4	0	0	0
8/5/2003 21:15	24.7	23.7	24	3	4.3	5.6	1.4	139.1	139.1	761	0.25	93.7	0	0	0
8/5/2003 21:30	24.7	23.7	24	1.9	2.8	5	0.6	94.5	94.5	761	0	94	0	0	0
8/5/2003 21:45	24.7	23.7	24	2.5	3.5	5.6	38.2	61.7	61.7	761	0.25	94.2	0	0	0
8/5/2003	24.7	23.8	24	1.6	3.2	4.8	9.1	45.3	45.3	761	0	94.3	0	0	0

Bayou Terrebonne Weather Station Data

Date & Time	Temperature	Dry Bulb	Wet Bulb	Wind Speed	Wind Speed	Wind Speed	Wind Direction	Wind Direction	Wind Direction	Barometer	Rain	Humidity	Flux Density	Flux Density	Flux Density
22:00															
8/5/2003 22:15	24.7	23.8	24	1.9	4.1	6.2	26	76.7	76.7	761	0	94.1	0	0	0
8/5/2003 22:30	24.8	23.7	24	1.9	3.9	5.9	31.4	72.4	72.4	761	0	93.6	0	0	0
8/5/2003 22:45	24.8	23.8	24.1	0	2.3	3.9	6.4	282.5	282.5	761	0	93.8	0	0	0
8/5/2003 23:00	24.9	23.9	24.2	0	0.9	3	93.5	136	136	761	0	94	0	0	0
8/5/2003 23:15	25	24	24.3	0	2	3	17.1	82.9	82.9	761	0	94.3	0	0	0
8/5/2003 23:30	24.8	23.9	24.1	0	0	0	4.5	159.7	159.7	761	0	94.5	0	0	0
8/5/2003 23:45	24.8	23.9	24.1	0	2.3	5	1	291.7	291.7	761	0	94.7	0	0	0
8/6/2003 0:00	24.5	23.6	23.9	0	2.7	4.8	0.6	57	57	761	0	94.9	0	0	0
8/6/2003 0:15	24.5	23.7	23.9	0	0	1.6	13.8	78.2	78.2	761	0	95.2	0	0	0
8/6/2003 0:30	24.5	23.7	23.9	0	0.5	2.2	46.8	64.7	64.7	761	0	95.2	0	0	0
8/6/2003 0:45	24.7	23.9	24.1	0	0	1.3	21.3	131.1	131.1	761	0	95.3	0	0	0
8/6/2003 1:00	24.6	23.9	24.1	0	0	0	266.7	285.4	285.4	761	0	95.3	0	0	0
8/6/2003 1:15	24.6	23.8	24	0	1	2.5	306.3	317.3	317.3	761	0	95.3	0	0	0
8/6/2003 1:30	24.5	23.7	23.9	1.6	2.2	2.7	313.7	330.1	330.1	761	0	95.3	0	0	0

Bayou Terrebonne Weather Station Data

Date & Time	Temperature	Dry Bulb	Wet Bulb	Wind Speed	Wind Speed	Wind Speed	Wind Direction	Wind Direction	Wind Direction	Barometer	Rain	Humidity	Flux Density	Flux Density	Flux Density
8/6/2003 1:45	24.3	23.5	23.7	0	1.7	3.6	0.2	252.5	252.5	761	0	95.3	0	0	0
8/6/2003 2:00	24.3	23.5	23.7	0	0	0	8.7	249.8	249.8	761	0	95.4	0	0	0
8/6/2003 2:15	24.2	23.4	23.6	0	0.4	2.5	30.4	42.6	42.6	761	0	95.4	0	0	0
8/6/2003 2:30	24.1	23.4	23.6	0	0	0	0.4	142.1	142.1	761	0	95.5	0	0	0
8/6/2003 2:45	24.2	23.4	23.6	0	0	0	26.8	192.4	192.4	761	0	95.6	0	0	0
8/6/2003 3:00	24.1	23.3	23.5	0	0	0	28.1	44.8	44.8	761	0	95.6	0	0	0
8/6/2003 3:15	24.1	23.4	23.6	0	0.7	2.5	39.2	61.4	61.4	761	0	95.7	0	0	0
8/6/2003 3:30	24.2	23.5	23.7	0	0	0	40.1	68.8	68.8	761	0	95.8	0	0	0
8/6/2003 3:45	24.1	23.4	23.6	0	0.9	2.5	40	45	45	761	0	95.8	0	0	0
8/6/2003 4:00	24.3	23.6	23.7	0	0	0	47.3	52	52	761	0	95.8	0	0	0
8/6/2003 4:15	24.4	23.7	23.9	0	0	0	37	73.7	73.7	761	0	95.8	0	0	0
8/6/2003 4:30	24.7	24	24.2	0	0	0	67.7	232.9	232.9	761	0	95.9	0	0	0
8/6/2003 4:45	24.8	24.1	24.3	0	0	0	0.2	172.8	172.8	761	0	95.8	0	0	0
8/6/2003 5:00	24.7	23.9	24.1	0	1.8	3.6	2.7	134.4	134.4	761	0	95.6	0	0	0
8/6/2003	24.7	24	24.2	0	0.4	3.3	34.9	204.5	204.5	761	0	95.7	0	0	0

Bayou Terrebonne Weather Station Data

Date & Time	Temperature	Dry Bulb	Wet Bulb	Wind Speed	Wind Speed	Wind Speed	Wind Direction	Wind Direction	Wind Direction	Barometer	Rain	Humidity	Flux Density	Flux Density	Flux Density
5:15															
8/6/2003 5:30	24.9	24.2	24.4	0	0.7	3.3	5.2	224.6	224.6	761	0	95.7	0	0	0
8/6/2003 5:45	24.9	24.2	24.4	0	0.8	2.7	1.6	256.8	256.8	761	0	95.5	0	0	0
8/6/2003 6:00	24.9	24.2	24.4	0	1.3	2.5	0.2	195.5	195.5	761	0	95.4	0	0	0
8/6/2003 6:15	24.9	24.2	24.4	0	0.3	1.9	0.8	119	119	762	0	95.4	0	0	0
8/6/2003 6:30	25	24.2	24.4	0	0.4	2.7	0.2	113.6	113.6	762	0	95.4	0	0	0
8/6/2003 6:45	25	24.2	24.4	0	0.3	2.5	0.4	116.9	116.9	762	0	95.4	0	0.707	3.192
8/6/2003 7:00	25	24.3	24.5	0	0	0	19.4	131.6	131.6	762	0	95.4	3.292	6.951	9.97
8/6/2003 7:15	25.2	24.4	24.6	0	0.4	2.5	2.5	274	274	762	0	95.4	9.97	12.26	14.66
8/6/2003 7:30	25.4	24.6	24.8	0	0.9	2.5	20.9	191.8	191.8	762	0	95.3	14.76	22.14	31.52
8/6/2003 7:45	25.6	24.8	25	0	1.4	3	22.9	92.3	92.3	762	0	95.2	31.72	36.19	40.09
8/6/2003 8:00	25.9	25	25.2	0	2.3	3.9	11.4	32.4	32.4	762	0	94.6	40.29	56.48	70.2
8/6/2003 8:15	26.5	25.4	25.7	0	1.1	3.3	31.4	58	58	762	0	93.3	70.5	83.3	90
8/6/2003 8:30	27.1	25.5	25.9	2.2	3.3	5.6	49.8	93.6	93.6	762	0	91	70.1	77.1	88.1
8/6/2003 8:45	27.4	25.6	26.1	0	3.2	6.5	30.1	77.1	77.1	762	0	89.7	59.73	114.6	208.6

Bayou Terrebonne Weather Station Data

Date & Time	Temperature	Dry Bulb	Wet Bulb	Wind Speed	Wind Speed	Wind Speed	Wind Direction	Wind Direction	Wind Direction	Barometer	Rain	Humidity	Flux Density	Flux Density	Flux Density
8/6/2003 9:00	29.1	25.4	26.3	0	3.6	7.3	57.4	141	141	762	0	80.4	126.6	211.6	348.8
8/6/2003 9:15	29.8	25.5	26.6	3.6	6.5	9.3	102.8	152	152	762	0	77.6	159.7	302	366.9
8/6/2003 9:30	30	25.3	26.5	3.3	8.7	15.7	118.3	162.3	162.3	762	0	75.7	89.9	287.8	380.8
8/6/2003 9:45	30.1	25.3	26.5	5.6	8.7	14	118.5	164.6	164.6	762	0	75.6	132.5	318.3	448.1
8/6/2003 10:00	30	25.3	26.5	5.3	10.2	16.5	117.7	166.8	166.8	762	0	75.6	97.7	362.8	440.8
8/6/2003 10:15	30.5	25.1	26.5	4.8	8.7	16.8	134.7	184	184	762	0	72.8	116.9	413.1	431.7
8/6/2003 10:30	30.6	24.9	26.4	5.3	11.4	18.6	118.6	178.4	178.4	762	0	71.7	431.8	447.3	460.6
8/6/2003 10:45	30.8	24.8	26.4	5.3	11.7	20	124.6	167.1	167.1	762	0	70.3	311.1	481.2	513.8
8/6/2003 11:00	31.4	24.7	26.4	5.3	11.9	18.6	98.1	166.8	166.8	762	0	67.74	281.4	518.6	548
8/6/2003 11:15	31.6	24.7	26.5	5.9	10.5	18.6	114.4	180.2	180.2	762	0	66.72	135.5	481.6	595.8
8/6/2003 11:30	31.7	24.5	26.4	4.8	12.3	20	116.7	164.6	164.6	762	0	65.58	166.8	542.2	703
8/6/2003 11:45	30.3	24.5	26	5.6	13.2	23.7	92.6	173.2	173.2	762	1.27	71.7	120.2	316.3	745
8/6/2003 12:00	27.3	23.7	24.7	4.2	7.1	12.5	159.5	203.9	203.9	762	0	80.6	139.5	199	254.7
8/6/2003 12:15	28.1	23.6	24.9	3.3	7.2	11.7	150.6	183.9	183.9	762	0	76.5	222.8	266.9	761
8/6/2003	28.6	23	24.6	2.5	5.6	9.6	137.3	184.7	184.7	762	0	71.9	208	225.6	245

Bayou Terrebonne Weather Station Data

Date & Time	Temperature	Dry Bulb	Wet Bulb	Wind Speed	Wind Speed	Wind Speed	Wind Direction	Wind Direction	Wind Direction	Barometer	Rain	Humidity	Flux Density	Flux Density	Flux Density
12:30															
8/6/2003 12:45	29.1	23.9	25.3	2.2	5.8	10.8	107.4	184.2	184.2	762	0	73.9	207.2	283.8	576.9
8/6/2003 13:00	30.5	25.1	26.5	3	10.8	19.7	101.6	175.3	175.3	762	0	72.9	250.2	509.7	795
8/6/2003 13:15	31.2	25	26.6	5.3	10.7	18.3	105.3	176.1	176.1	761	0	69.37	267.7	575.8	776
8/6/2003 13:30	31.4	24.8	26.5	5.3	12.2	20.9	114.2	174.5	174.5	761	0	68.05	238.4	488	756
8/6/2003 13:45	31.1	24.6	26.3	5	10.7	18.9	114.5	162.2	162.2	761	0	68.46	226.9	291	433.2
8/6/2003 14:00	31	24.6	26.3	6.5	12.8	19.4	120.2	165.9	165.9	761	0	68.64	273.5	346.2	755
8/6/2003 14:15	31.4	25.2	26.8	5.6	12.1	19.4	80.8	163	163	761	0	69.5	285.1	539.1	642.3
8/6/2003 14:30	31.8	25.1	26.8	6.8	12.9	19.4	113.6	152.6	152.6	761	0	67.89	233.9	555	664.2
8/6/2003 14:45	32.1	24.9	26.7	5.6	13	21.7	99.8	157.1	157.1	761	0	65.68	244.9	562.5	626.6
8/6/2003 15:00	32.1	24.1	26.2	7.3	14.1	21.7	96.3	155	155	761	0	62.38	437.3	551.7	602.3
8/6/2003 15:15	32.4	23.6	26	7	12.7	19.4	107.5	155.8	155.8	761	0	60.19	467.8	519	561.7
8/6/2003 15:30	32.3	23.4	25.8	7.3	14.1	26	82.9	144.3	144.3	761	0	59.29	214.3	492.8	528.8
8/6/2003 15:45	32.5	22.8	25.4	7.9	13.5	22.9	105.2	162.5	162.5	761	0	56.6	345	505.1	524
8/6/2003 16:00	32.7	23.2	25.8	5.9	12.3	21.1	105.2	154.4	154.4	761	0	57.6	490.3	514.4	541.4

Bayou Terrebonne Weather Station Data

Date & Time	Temperature	Dry Bulb	Wet Bulb	Wind Speed	Wind Speed	Wind Speed	Wind Direction	Wind Direction	Wind Direction	Barometer	Rain	Humidity	Flux Density	Flux Density	Flux Density
8/6/2003 16:15	32.6	23.8	26.1	7.9	12.1	19.7	93.4	160.1	160.1	760	0	59.55	234.3	453.4	551.2
8/6/2003 16:30	32.5	24.1	26.3	6.8	13.5	20.3	110.1	148.7	148.7	760	0	61.35	197.7	444.9	544.1
8/6/2003 16:45	32.6	24.4	26.6	5	11.4	18.9	98.1	153.8	153.8	760	0	62.3	189.5	402.3	489.4
8/6/2003 17:00	32.3	24.1	26.2	7.9	14.1	19.7	103.7	149	149	760	0	61.77	203.8	378.5	427.6
8/6/2003 17:15	32	23.9	26.1	7.3	15	25.5	101.5	149.3	149.3	760	0	62.49	271	306.2	342.2
8/6/2003 17:30	31.8	23.9	26	7.9	14.1	23.4	104.3	158.7	158.7	760	0	62.94	285.2	306.9	320.2
8/6/2003 17:45	31.8	23.6	25.8	6.2	13.7	22.3	96.3	160.3	160.3	760	0	61.87	265	279.5	299.1
8/6/2003 18:00	31.5	23.4	25.6	6.2	13.2	20	118.2	175	175	760	0	62.24	226	242.7	264.5
8/6/2003 18:15	31.2	23.4	25.6	9.1	16.3	24.9	120.3	165.6	165.6	759	0	63.29	181.7	203.5	225.8
8/6/2003 18:30	31	23.4	25.5	7.6	12.8	21.1	114.9	168.8	168.8	759	0	64.15	138.3	158.8	181.4
8/6/2003 18:45	30.7	23.4	25.4	6.8	11.7	19.4	135.5	174.4	174.4	759	0	64.82	102.4	124.8	147
8/6/2003 19:00	30.4	23.5	25.4	5	10.8	16	123.1	167.4	167.4	759	0	66.79	51.42	89.7	104.6
8/6/2003 19:15	29.9	23.6	25.3	5.3	9.4	15.1	130.1	173.3	173.3	759	0	68.97	32.69	46.37	75.6
8/6/2003 19:30	29.6	23.7	25.3	3.3	8	13.4	129.3	166.9	166.9	759	0	70.3	20.33	30.48	50.83
8/6/2003	29.2	23.9	25.3	3.6	6.5	11.7	111.8	153.5	153.5	759	0	73.4	5.781	12.59	20.13

Bayou Terrebonne Weather Station Data

Date & Time	Temperature	Dry Bulb	Wet Bulb	Wind Speed	Wind Speed	Wind Speed	Wind Direction	Wind Direction	Wind Direction	Barometer	Rain	Humidity	Flux Density	Flux Density	Flux Density
19:45															
8/6/2003 20:00	28.7	24.1	25.3	4.2	6.7	10.2	109.9	145.8	145.8	759	0	76.5	0	1.821	5.681
8/6/2003 20:15	28.4	24.2	25.3	3.9	6	9.6	83.4	146.4	146.4	759	0	78.1	0	0	0
8/6/2003 20:30	28.1	24.3	25.3	2.7	4.6	8.5	99.1	141.7	141.7	759	0	80	0	0	0
8/6/2003 20:45	27.9	24.4	25.3	0	2.9	7	102	146.4	146.4	759	0	81.1	0	0	0
8/6/2003 21:00	27.6	24.4	25.3	2.7	3.9	5.6	84.7	128.4	128.4	759	0	82.7	0	0	0
8/6/2003 21:15	27.3	24.4	25.2	2.5	4	6.2	104.5	134.9	134.9	760	0	84.3	0	0	0
8/6/2003 21:30	27.1	24.5	25.2	3	4.4	5.9	96.8	133.6	133.6	760	0	85.3	0	0	0
8/6/2003 21:45	27	24.4	25.1	3	4.5	7	99.5	136.7	136.7	760	0	85.7	0	0	0
8/6/2003 22:00	26.9	24.4	25.1	3.6	5.6	7.3	96	126.7	126.7	760	0	86.2	0	0	0
8/6/2003 22:15	26.8	24.4	25	3.6	5.4	7.6	88.4	126	126	760	0	86.6	0	0	0
8/6/2003 22:30	26.6	24.4	25	3.9	5.3	7.3	79.3	112.3	112.3	760	0	87.6	0	0	0
8/6/2003 22:45	26.4	24.5	25	4.2	6.2	9.3	74.1	112.3	112.3	760	0	89.1	0	0	0
8/6/2003 23:00	26.4	24.4	24.9	3.6	5.7	7.9	92.9	125.1	125.1	760	0	88.6	0	0	0
8/6/2003 23:15	26.3	24.3	24.9	3	4.4	7.9	83.2	127.9	127.9	760	0	88.9	0	0	0

Bayou Terrebonne Weather Station Data

Date & Time	Temperature	Dry Bulb	Wet Bulb	Wind Speed	Wind Speed	Wind Speed	Wind Direction	Wind Direction	Wind Direction	Barometer	Rain	Humidity	Flux Density	Flux Density	Flux Density
8/6/2003 23:30	26.1	24.3	24.8	2.5	4.3	6.5	100.6	120.3	120.3	760	0	89.7	0	0	0
8/6/2003 23:45	26	24.2	24.7	2.7	5.6	7.9	95.6	117.8	117.8	760	0	89.7	0	0	0
8/7/2003 0:00	26	24.2	24.7	2.2	5.5	9.9	79.3	123.4	123.4	760	0	89.3	0	0	0
8/7/2003 0:15	26.1	24.1	24.7	1.9	3	6.2	119.3	156.8	156.8	759	0	88.8	0	0	0
8/7/2003 0:30	25.9	24.1	24.6	0	1.4	3.3	0.6	93	93	759	0	89.4	0	0	0
8/7/2003 0:45	25.6	24	24.4	0	0	0	15.3	219.4	219.4	759	0	90.6	0	0	0
8/7/2003 1:00	25.5	24	24.4	0	0.3	2.5	60.9	222.7	222.7	759	0	91.3	0	0	0
8/7/2003 1:15	25.4	24	24.4	0	2.3	3.9	55.1	83.7	83.7	760	0	92.3	0	0	0
8/7/2003 1:30	25.3	24.1	24.4	1.6	2.9	4.8	75.6	100.9	100.9	760	0	92.6	0	0	0
8/7/2003 1:45	25.4	24.1	24.4	1.6	2.9	4.5	86.3	111.2	111.2	760	0	92.8	0	0	0
8/7/2003 2:00	25.4	24.1	24.4	2.2	3.1	4.8	101.3	149.3	149.3	760	0	92.6	0	0	0
8/7/2003 2:15	25.4	24.1	24.4	2.5	3.8	6.5	77.6	108.4	108.4	759	0	92.4	0	0	0
8/7/2003 2:30	25.4	24.1	24.4	1.6	3.2	5.3	79.7	105.9	105.9	759	0	92.2	0	0	0
8/7/2003 2:45	25.4	24.1	24.5	0	1.7	3	112.9	168.7	168.7	759	0	92.3	0	0	0
8/7/2003	25.3	24	24.4	0	2.1	4.8	103	160.3	160.3	759	0	92.3	0	0	0

Bayou Terrebonne Weather Station Data

Date & Time	Temperature	Dry Bulb	Wet Bulb	Wind Speed	Wind Speed	Wind Speed	Wind Direction	Wind Direction	Wind Direction	Barometer	Rain	Humidity	Flux Density	Flux Density	Flux Density
3:00															
8/7/2003 3:15	25.1	23.9	24.2	2.5	3.2	4.5	87.1	134.8	134.8	759	0	93.2	0	0	0
8/7/2003 3:30	25.1	24.1	24.3	3.9	5.6	8.5	81.5	105.5	105.5	759	0	94	0	0	0
8/7/2003 3:45	25.6	24.4	24.7	4.5	7	10.8	86.1	117.2	117.2	759	0	93.1	0	0	0
8/7/2003 4:00	25.7	24.3	24.6	3	6.1	9.1	85	115.5	115.5	759	0	92	0	0	0
8/7/2003 4:15	25.6	24.3	24.6	2.7	4.4	7.3	92.3	120	120	759	0	92.1	0	0	0
8/7/2003 4:30	25.6	24.3	24.6	1.9	3.7	6.5	97.6	130	130	759	0	92.3	0	0	0
8/7/2003 4:45	25.6	24.3	24.6	0	2.2	4.8	97.2	174.8	174.8	759	0	92	0	0	0
8/7/2003 5:00	25.5	24.2	24.5	0	1.8	3.3	0.2	42.9	42.9	759	0	92.2	0	0	0
8/7/2003 5:15	25.3	24.2	24.5	1.3	2.9	4.2	20.8	70.4	70.4	760	0	93.4	0	0	0
8/7/2003 5:30	25.3	24.3	24.5	1.9	3.3	4.5	103.2	113.5	113.5	760	0	93.9	0	0	0
8/7/2003 5:45	25.4	24.3	24.6	3.3	4.6	6.5	78.2	114.5	114.5	760	0	93.9	0	0	0
8/7/2003 6:00	25.5	24.4	24.7	4.5	6.5	9.1	84.4	121.6	121.6	760	0	93.4	0	0	0
8/7/2003 6:15	25.6	24.3	24.7	1.9	5	8.8	83.6	145.9	145.9	759	0	92.4	0	0	0
8/7/2003 6:30	25.6	24.3	24.6	2.2	3.7	5.6	116.6	181.5	181.5	759	0	92.6	0	0	0

Bayou Terrebonne Weather Station Data

Date & Time	Temperature	Dry Bulb	Wet Bulb	Wind Speed	Wind Speed	Wind Speed	Wind Direction	Wind Direction	Wind Direction	Barometer	Rain	Humidity	Flux Density	Flux Density	Flux Density
8/7/2003 6:45	25.8	24.5	24.8	0	2.9	5.6	85.7	181.2	181.2	759	0	92.8	0	4.125	16.65
8/7/2003 7:00	26	24.7	25	0	3.6	6.2	25.2	157.7	157.7	759	0	92.3	16.85	33.57	42.68
8/7/2003 7:15	26.4	24.9	25.2	1.6	4.5	7.9	199.6	259.8	259.8	760	0	91.5	20.34	27.83	38.29
8/7/2003 7:30	26.7	24.9	25.3	2.7	4.7	7.3	173	233.5	233.5	760	0	89.4	7.18	12.29	27.92
8/7/2003 7:45	26.5	24.9	25.3	2.7	4.7	7	242.2	285.7	285.7	760	1.27	91.1	0	2.096	8.08
8/7/2003 8:00	26.1	24.9	25.2	1.6	4.2	6.2	219.3	309.6	309.6	760	0	92.9	4.387	6.438	9.57
8/7/2003 8:15	26	25	25.2	1.3	4.7	7.3	89.8	128.3	128.3	760	0	93.7	9.77	14.17	19.44
8/7/2003 8:30	26.1	25	25.3	4.5	7.2	10.2	121	162.8	162.8	760	0.25	93.9	19.54	28.26	38.89
8/7/2003 8:45	26.3	25.2	25.5	4.8	7.2	10.2	111.3	152.8	152.8	760	0	93.3	39.29	52.25	66.11
8/7/2003 9:00	26.7	25.4	25.7	4.8	7.2	13.1	112.5	160.5	160.5	760	0	92.4	66.61	83.2	97.4
8/7/2003 9:15	27	25.1	25.6	5.6	10.1	18.3	112.7	158.6	158.6	760	0	89.5	97.7	109.9	121.2
8/7/2003 9:30	27.1	24.6	25.3	4.5	10.6	17.1	109	170.8	170.8	760	0	86.4	121.6	132.9	145.2
8/7/2003 9:45	27.3	24.9	25.5	4.2	8.5	13.4	69.8	171.6	171.6	760	0	87	145.4	160.3	180.8
8/7/2003 10:00	27.7	25.1	25.8	5.6	9.9	18.3	125.7	167.9	167.9	760	0	85.4	181.6	212.7	233.5

APPENDIX H8 – RECONAISSANCE SURVEY PICTURES

BAYOU TERREBONNE RECONNAISANCE SURVEY

Bayou Terrebonne Recon Pictures

May 15, 2003

Jamie Phillippe, Dick Duerr, Chuck Berger, Shane Caldwell, Chris Nichols

Bayou Terrebonne at confluence with Bayou Lafourche At LA 1 intersection with Canal Street

Bayou Terrebonne at the Railroad Tracks – drainage area boundary

Bayou Terrebonne at the Railroad Tracks – drainage area boundary

Bayou Terrebonne at Callumet St. – looking upstream

 Bayou Terrebonne at Callumet St. – looking downstream	 **Storm drain and outfall into Bayou Terrebonne downstream of Callumet St.**
 Pipe inlet downstream of electrical pump draining Devil's Swamp into Bayou Terrebonne	 **Downstream of Pump Station draining Devil's Swamp**

Pump Station draining Devil's Swamp

Bayou Terrebonne at Louisiana Street Bridge near Robichaux Ford - looking at the downstream side of the culvert

Bayou Terrebonne at Louisiana Street Bridge near Robichaux Ford - looking downstream

Bayou Terrebonne at Louisiana Street Bridge near Robichaux Ford - looking upstream

 Bayou Terrebonne at Ducros Road Bridge - looking downstream	 **Bayou Terrebonne at Ducros Road Bridge - looking upstream**
 Bayou Terrebonne at Price Bridge near Andrew Price Alternative School - looking downstream	 **Bayou Terrebonne at Price Bridge near Andrew Price Alternative School - looking upstream**

Andrew Price Alternative School on the east side of Bayou Terrebonne

Bayou Terrebonne at Recreation Bridge south of Harmony Street - looking downstream

Bayou Terrebonne at Recreation Bridge south of Harmony Street - looking upstream

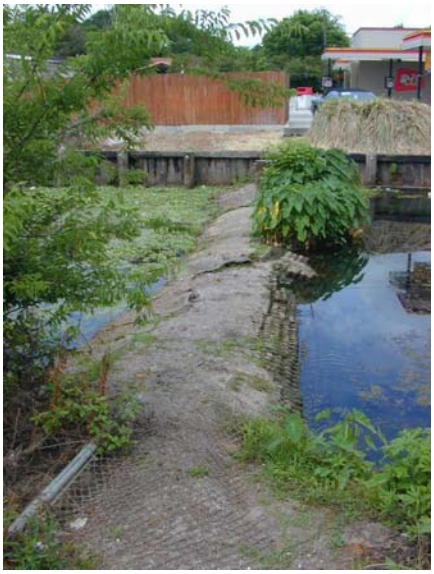
Bayou Terrebonne at Bourgeois Bridge at H.L. Bourgeois High School near North Terrebonne Road - looking upstream at the weir

Bayou Terrebonne at Bourgeois Bridge at H.L. Bourgeois High School near North Terrebonne Road - weir approximately 50 feet upstream of the bridge

Bayou Terrebonne at Bourgeois Bridge at H.L. Bourgeois High School near North Terrebonne Road - looking downstream

Bayou Terrebonne at Darlene St. Bridge – looking downstream

Bayou Terrebonne at weir near Sonic and mall - looking at the upstream side of the weir



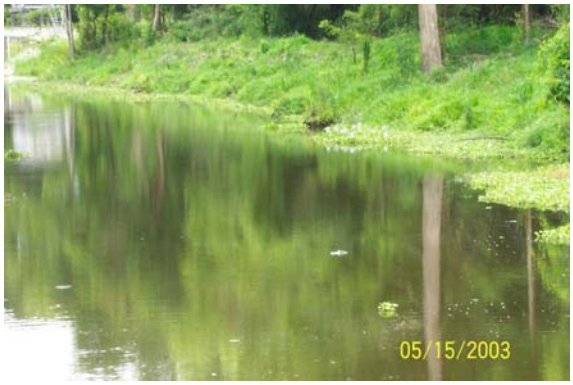
Bayou Terrebonne at weir near Sonic and mall

Bayou Terrebonne at weir just below mall bridge – looking upstream

Bayou Terrebonne at weir near Sonic and mall – looking downstream from the top of the weir (tidal)

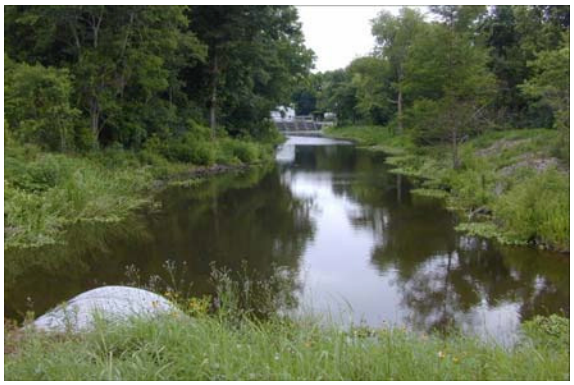
Bayou Cane at LA 24 (DOTD bridge # 065 040371 2) - looking southwest or upstream (tidal)

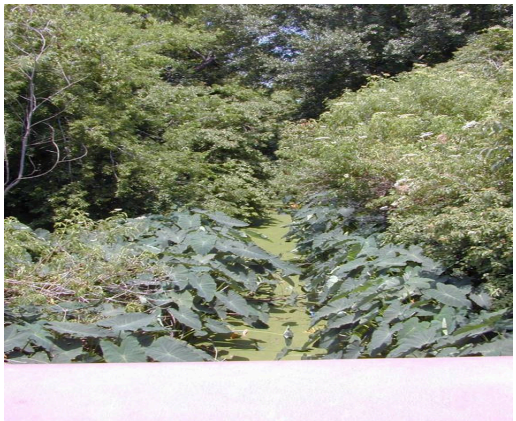
 Bayou Cane at LA 24 (DOTD bridge # 065 040371 2) - looking northeast at confluence of Bayou Cane and Bayou Terrebonne (tidal)	 **Bayou Cane at LA 24 (DOTD bridge # 065 040371 2) - looking northeast at confluence of Bayou Cane and Bayou Terrebonne (tidal)**
 Unnamed Drainage Canal at Martin Luther King Hwy south of Bayou Cane on the east side of Martin Luther King Hwy	 **Unnamed Drainage Canal at Martin Luther King Hwy south of Bayou Cane on the west side of Martin Luther King Hwy**

 Bayou Cane at Martin Luther King Hwy. - looking downstream at the pump station	 **Bayou Cane at Martin Luther King Hwy. – looking downstream at the pump station (close-up)**
 **Bayou Cane at Martin Luther King Hwy. - looking at the gator**	 **Bayou Cane at Martin Luther King Hwy. - looking upstream at the confluence of Bayou Cane and a drainage canal**

Drainage Canal to Bayou Cane at Savanne Road – looking towards Bayou Cane	**Canal to Bayou Cane at Savanne Road – looking upstream**
ICWW at LA 661 - looking west (tidal)	**Houma Navigation Canal at LA 661 - looking south (tidal)**

Bayou La Carpe at LA 661 - looking south (tidal)	**ICWW at LA 24 - looking east (tidal)**
Bayou Terrebonne at Barrow St. – looking upstream	**Bayou Terrebonne at Barrow St. – looking toward ICWW**

Bayou Terrebonne at Gabasse St. bridge in Houma (bridge # 065 91 0005 03) – looking downstream (tidal)	 **Bayou Terrebonne at Gabasse St. bridge in Houma (bridge # 065 91 0005 03) – looking upstream (tidal)**
St. Louis Canal at New Orleans Blvd. – looking upstream	**St. Louis Canal at New Orleans Blvd. (LA 90) – towards the side channel and the pumping station**

 St. Louis Canal at New Orleans Blvd. (LA90) – looking downstream towards the pumping station	 **St. Louis Canal at Park Ave. near confluence with Bayou Terrebonne and Morrison Ave. – looking at the trash on the upstream side of the bridge**
 **St. Louis Canal at Park Ave. near confluence with Bayou Terrebonne and Morrison Ave. – looking upstream**	 **St. Louis Canal at Park Ave. near confluence with Bayou Terrebonne and Morrison Ave. – looking downstream towards Bayou Terrebonne**

 Bayou Terrebonne at possible culvert from St. Louis Canal (tidal)	 **Little Bayou Black at LA 311 and LA 182 near Houma Terrebonne Civic Center – from the north looking downstream along Little Bayou Black (tidal)**
  Little Bayou Black at LA 311 and LA 182 near Houma Terrebonne Civic Center – from the north looking at the confluence of Little Bayou Black and Bayou Black (tidal)	 **Confluence of Little Bayou Black and Bayou Black – looking north from Jim Bowie Park (tidal)**

Confluence of Little Bayou Black and Bayou Black – looking north from Jim Bowie Park (tidal)

Confluence of Little Bayou Black (upstream to the left and downstream to the right) and Bayou Cane (center) (tidal)

Little Bayou Black Immediately Upstream of Bayou Cane

Rotten willow at the confluence of Bayou Cane and Little Bayou Black

Bayou Terrebonne at Lafayette Street – looking upstream (tidal)	**Bayou Terrebonne at Lafayette Street – looking downstream (tidal)**
Bayou Terrebonne at Lafayette Street – turtle	**Bayou Terrebonne at Hollywood- looking downstream**

Bayou Terrebonne at Hollywood-looking upstream

Bayou Terrebonne at Westside near Barker GMC – looking downstream (tidal)

Bayou Terrebonne at Westside near Barker GMC – looking upstream (tidal)

APPENDIX H9 – DAM / WEIR DATA

Bayou Terrebonne Water Surface Elevation Data

Site/Weir	BM (feet)	HI (feet)	Upstream Water Surface Elevation (feet)	Weir (feet)	Downstream Water Surface Elevation (feet)	Head Loss Acress The Weir (feet)	Head Loss Across The Weir (meters)
BT-05 / Weir # 1	100.00	101.05	95.62	95.18	94.98	0.64	0.20
BT-05A / Weir # 2	100.00	103.68	92.67	92.49	91.62	1.05	0.32
BT-06 / Weir # 3	100.00	104.52	93.58	93.36	92.35	1.23	0.37

APPENDIX I – HISTORICAL AND AMBIENT DATA

APPENDIX I1 – AMBIENT DATA
APPENDIX I2 – LAND USE

APPENDIX I1 – AMBIENT DATA

Bayou Terrebonne at Houma, Louisiana
LA DEQ Ambient Data for Site 0110

This page last updated on: 05/20/02

DATE	TIME (hous)	WATER DEPTH (meters)	FIELD PH	TEMP. (deg c)	D.O. mg/L	FIELD COND. (umhos)	SECCHI DISK (INCHES	SALINITY (ppt)
11/16/04	930		7.8	18.6	6.5	320		
10/12/04	1000		7.3	23.6	2.4	180		
8/24/04	1040		7.7	30.7	4.5	360		
7/27/04	1015		7.2	28.5	2.4	220		
6/29/04	1005		7.3	26.3	3.2	230		
6/2/04	1035		7.33	28.12	3.88	287		
5/10/04	1020		7.5	25.7	4.1	280		
4/19/2004	1005	1	7.5	20.60	7.7	350		
3/9/2004	1050	1	7.5	20.10	2.1	320		
2/3/2004	1015	1	7.6	12.10	9.5	430	14.0	
1/6/2004	1005	1	7.4	15.8	2.7	410	16.0	
11/29/2000	1030	1	6.7	14.41	7.51	686	9	0.4
10/25/2000	1100	1	7.59	23.48	4.8	17900	7	10.3
9/27/2000	1050	1	7.51	25.24	4.5	4870	9	2.6
8/30/2000	1035	1	8.02	30.22	5.71	290	6	0.2
8/2/2000	1040	1	7.46	28.76	6.34	312	8	0.2
6/28/2000	1100	1	7.68	30.33	5.81	292	7	0.2
5/31/2000	1020	1	8.56	29.62	6.71	294	8	0.1
5/3/2000	1025	1	7.89	25.17	4.26	.	11	0.1
4/4/2000	1010	1	7.54	20.79	7.2	446	8	0.2
3/1/2000	930	1	8.02	21.21	5.77	566	8	0.3
2/2/2000	900	1	8.04	10.2	8.33	2380	6	1.3
1/5/2000	955	1	7.93	15.13	6.81	806	7	0.4

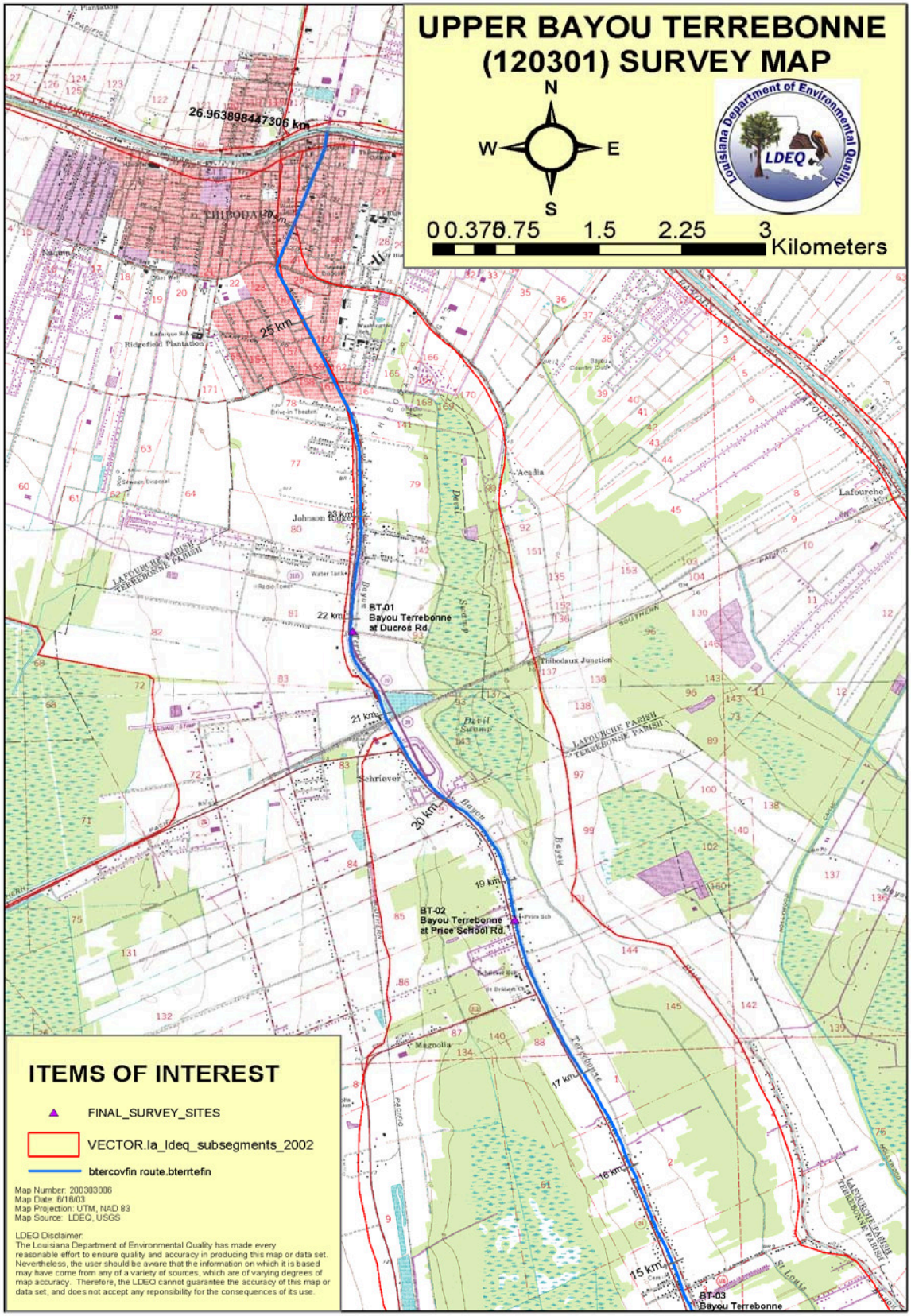
APPENDIX I2 – LAND USE

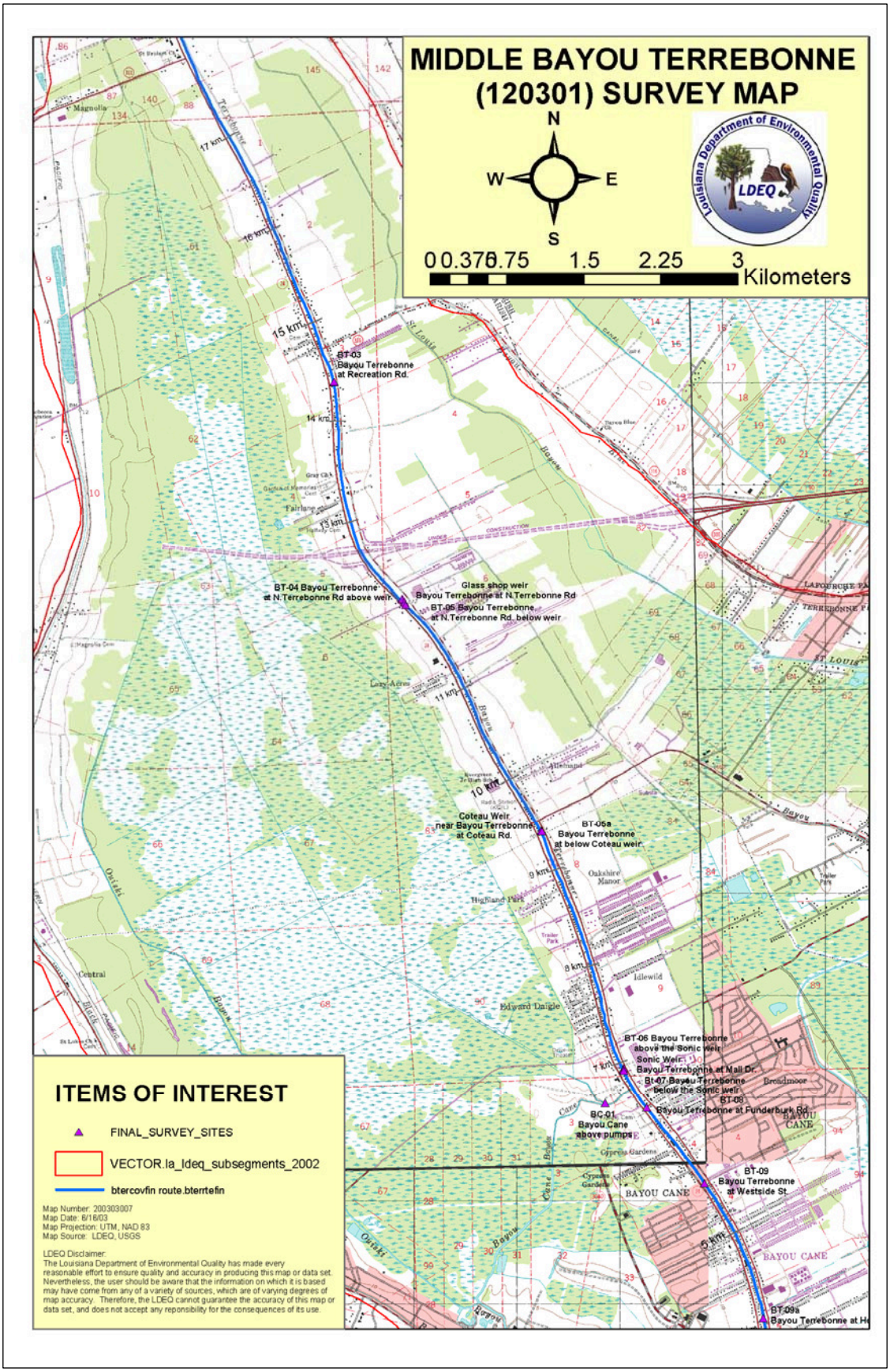
SUBSEGMENT 120301 - LANDUSE SUMMARY		
LANDUSE	ACRES	PERCENT
Wetland Forest Deciduous	9652.59	27.35
Agriculture/Cropland/Grassland	7522.94	21.31
Vegetated Urban	7468.45	21.16
Fresh Marsh	4308.00	12.20
Wetland S/S Deciduous	2667.40	7.56
Water	2418.76	6.85
Non-Vegetated Urban	809.07	2.29
Upland S/S Mixed	182.59	0.52
Upland Forest Deciduous	159.23	0.45
Upland Forest Mixed	106.53	0.30
Upland Barren	3.34	0.01

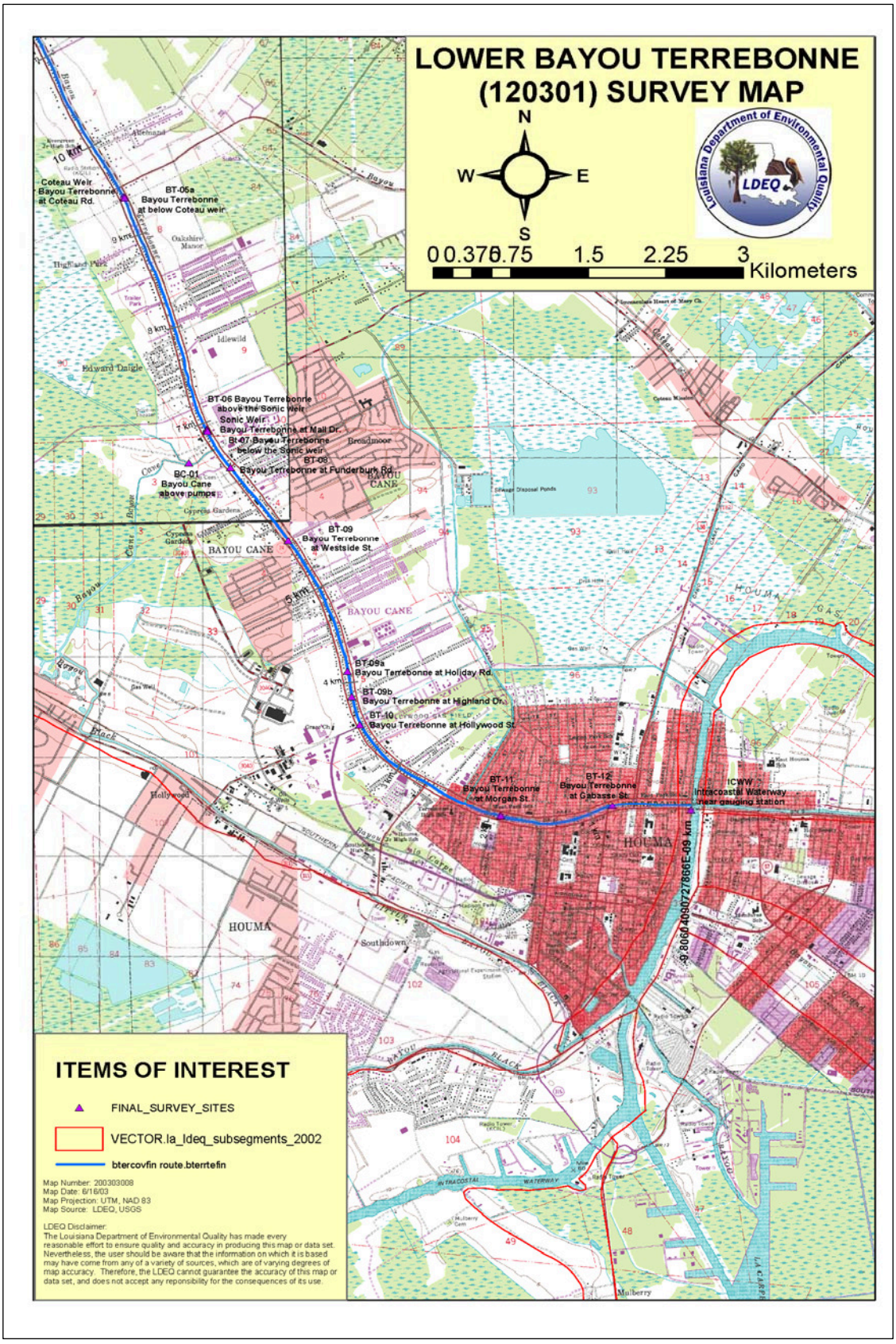
APPENDIX J – MAPS AND DIAGRAMS

APPENDIX J1 - OVERVIEW MAPS
APPENDIX J2 – LANDUSE MAP
APPENDIX J4 – LA PRECIPITATION MAP

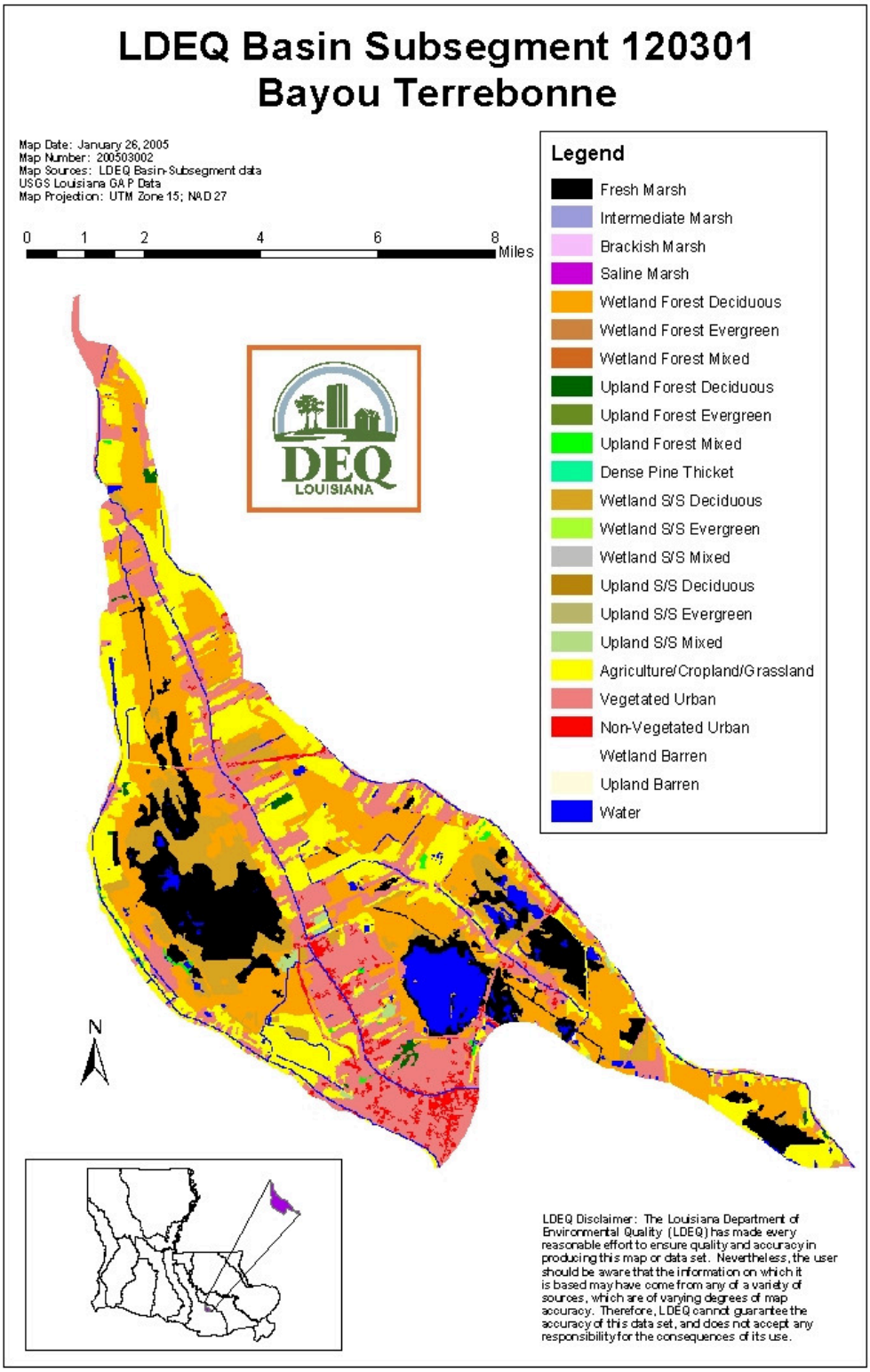
APPENDIX J1 - OVERVIEW MAPS


UPPER BAYOU TERREBONNE
(120301) SURVEY MAP
N
W
E
S
0 0.375 0.75 1.5 2.25 3
Kilometers
Louisiana Department of Environmental Quality
LDEQ
26.963898447306 km
25 km
23 km
22 km
21 km
20 km
19 km
17 km
16 km
15 km
BT-01
Bayou Terrebonne
at Ducros Rd.
BT-02
Bayou Terrebonne
at Price School Rd.
BT-03
Bayou Terrebonne
Ridgefield Plantation
Johnson
Acadia
Lafourche
Thibodaux Junction
Schriever
Magnolia
ITEMS OF INTEREST
FINAL_SURVEY_SITES
VECTOR.la_ldeq_subsegments_2002
btercovfin route.bterrtefin
Map Number: 200303006
Map Date: 6/16/03
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.

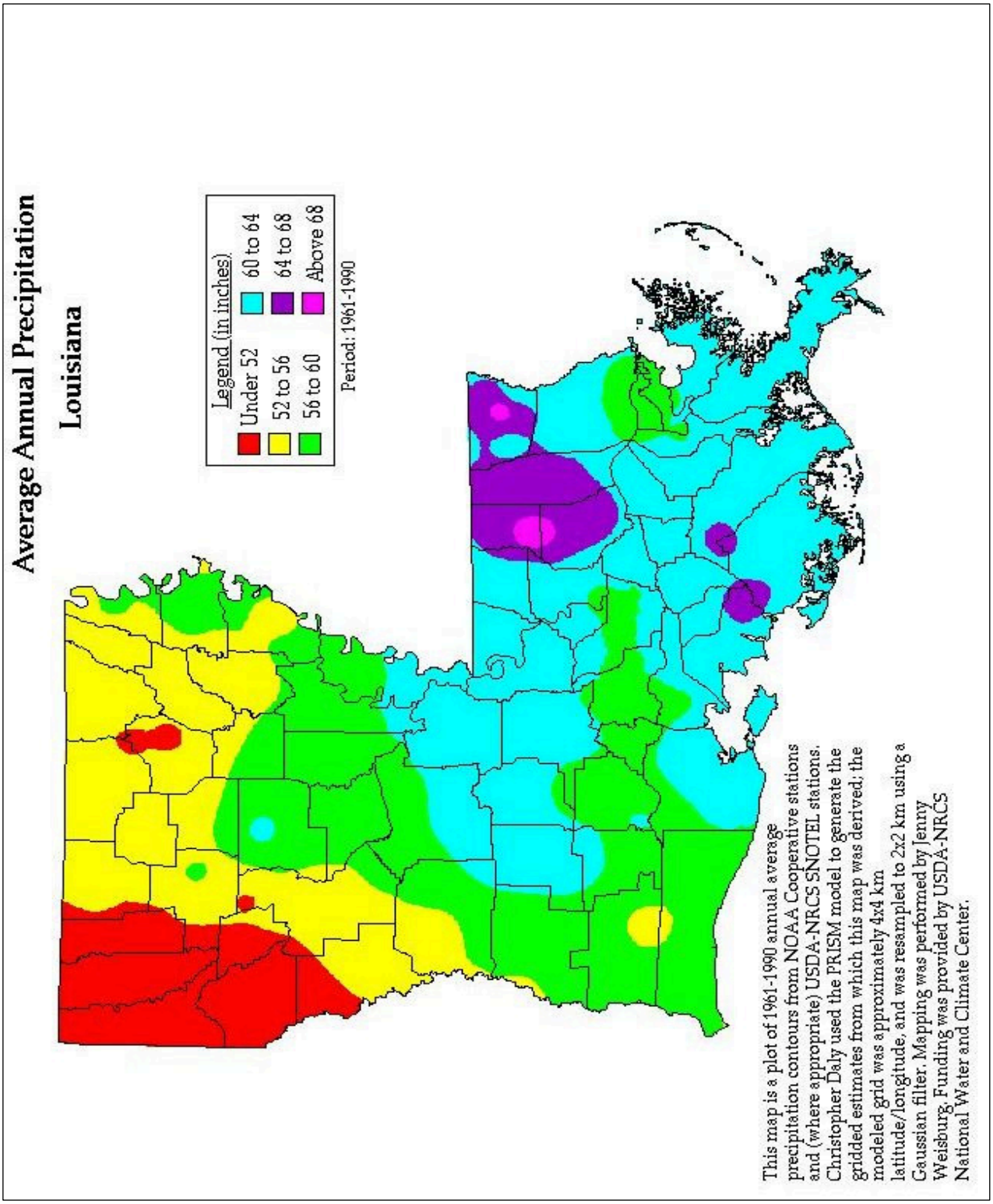

MIDDLE BAYOU TERREBONNE
(120301) SURVEY MAP
N
W
E
S
0 0.37 0.75 1.5 2.25 3
Kilometers
Louisiana Department of Environmental Quality
LDEQ
BT-03
Bayou Terrebonne
at Recreation Rd.
BT-04 Bayou Terrebonne
at N.Terrebonne Rd above weir
Glass shop weir
Bayou Terrebonne at N.Terrebonne Rd
BT-05 Bayou Terrebonne
at N.Terrebonne Rd. below weir
Coteau Weir
near Bayou Terrebonne
at Coteau Rd.
BT-05a
Bayou Terrebonne
at below Coteau weir
BT-06 Bayou Terrebonne
above the Sonic weir
Sonic Weir
Bayou Terrebonne at Mall Dr.
BT-07 Bayou Terrebonne
below the Sonic weir
BT-08
Bayou Terrebonne at Funderburk Rd.
BC-01
Bayou Cane
above pumps
BT-09
Bayou Terrebonne
at Westside St.
BT-09a
Bayou Terrebonne at H
ITEMS OF INTEREST
FINAL_SURVEY_SITES
VECTOR.la_ldeq_subsegments_2002
btercovfin route.bterrtefin
Map Number: 200303007
Map Date: 6/16/03
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.


LOWER BAYOU TERREBONNE
(120301) SURVEY MAP
N
W
E
S
0 0.375 0.75 1.5 2.25 3
Kilometers
Louisiana Department of Environmental Quality
LDEQ
Coteau Weir
Bayou Terrebonne
at Coteau Rd.
BT-05a
Bayou Terrebonne
at below Coteau weir
BT-06 Bayou Terrebonne
above the Sonic weir
Sonic Weir
Bayou Terrebonne at Mall Dr.
BT-07 Bayou Terrebonne
below the Sonic weir
BT-08
Bayou Terrebonne at Funderburk Rd.
BC-01
Bayou Cane
above pumps
BT-09
Bayou Terrebonne
at Westside St.
BT-09a
Bayou Terrebonne at Holiday Rd.
BT-09b
Bayou Terrebonne at Highland Dr.
BT-10
Bayou Terrebonne at Hollywood St.
BT-11
Bayou Terrebonne
at Morgan St.
BT-12
Bayou Terrebonne
at Gabasse St.
ICWW
Intracoastal Waterway
near gauging station
BAYOU CANE
HOUMA
ITEMS OF INTEREST
FINAL_SURVEY_SITES
VECTOR.la_ldeq_subsegments_2002
btercovfin route.bterrtefin
Map Number: 200303008
Map Date: 6/16/03
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.

APPENDIX J2 – LANDUSE MAP


LDEQ Basin Subsegment 120301
Bayou Terrebonne
Map Date: January 26, 2005
Map Number: 200503002
Map Sources: LDEQ Basin-Subsegment data
USGS Louisiana GAP Data
Map Projection: UTM Zone 15; NAD 27
0 1 2 4 6 8 Miles
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
DEQ
LOUISIANA
N
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.

APPENDIX J3 – LA PRECIPITATION MAP


Average Annual Precipitation
Louisiana
Legend (in inches)
Under 52
52 to 56
56 to 60
60 to 64
64 to 68
Above 68
Period: 1961-1990
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 K – SENSITIVITY ANALYSIS

APPENDIX K1 – SENSITIVITY SUMMARY TABLE , GRAPHS, INPUT AND OUTPUT FILES (UPPER TERREBONNE MODEL)
APPENDIX K2 – SENSITIVITY MODEL SUMMARY TABLE, GRAPHS, INPUT AND OUTPUT FILE (LOWER TERREBONNE MODEL)

APPENDIX K1 – SENSITIVITY SUMMARY TABLE , GRAPHS, INPUT AND OUTPUT FILE (UPPER TERREBONNE MODEL)

UPPER TERREBONNE SENSITIVITY MODEL SUMMARY TABLE

SENSITIVITY ANALYSIS SUMMARY

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
HEADWATER TO WEIR #3

Plot 1 Base Model Minimum DO = 0.07

Parameter	% Parameter Change	Min D.O.	% D.O. Change	% Parameter Change	Min D.O.	% D.O. Change
Benthal Demand	-30	1.4	1920.2	30	0	-100
Initial Temperature	-2	0.69	900.6	2	0	-100
Stream Reaeration	-30	0	-100	30	1.4	1920.2
CBOD Aerobic Decay Rate	-30	0.08	12.2	30	0.06	-8.7
Non-Point Source CBOD	-30	0.08	10.2	30	0.06	-9.3
Stream Depth	-30	0.08	8.7	30	0.07	-5.1
Stream Velocity	-30	0.07	7.7	30	0.07	-4
CBOD Settling Rate	-30	0.07	-5.5	30	0.07	5.6
Stream Baseflow	-30	0.07	-4.4	30	0.07	4.6
Incremental Inflow	-30	0.07	-4.4	30	0.07	4.6
Incremental CBOD	-30	0.07	4.1	30	0.07	-3
Initial Salinity	-30	0.07	2.3	30	0.07	-2.3
Incremental DO	-30	0.07	-2.1	30	0.07	2.1
CBOD2 Aerobic Decay Rate	-30	0.07	1	30	0.07	-1
Incremental CBOD2	-30	0.07	0.5	30	0.07	-0.5
Non-Point Source BOD2	-30	0.07	0.5	30	0.07	-0.5
NBOD Decay Rate	-30	0.07	0.1	30	0.07	-0.1
CBOD2 Settling Rate	-30	0.07	0	30	0.07	0
Tidal Range	-30	0.07	0	30	0.07	0
Algae/Chlorophyll Ratio	-30	0.07	0	30	0.07	0
NBOD Settling Rate	-30	0.07	0	30	0.07	0
Initial Chorophyll a	-30	0.07	0	30	0.07	0
Incremental Outflow	-30	0.07	0	30	0.07	0
Incremental Temperature	-30	0.07	0	30	0.07	0
Incremental Chlorophyll a	-30	0.07	0	30	0.07	0
Incremental NBOD	-30	0.07	0	30	0.07	0
Headwater Flow	-30	0.07	0	30	0.07	0
Headwater Temperature	-2	0.07	0	2	0.07	0
Headwater DO	-30	0.07	0	30	0.07	0
Headwater CBOD	-30	0.07	0	30	0.07	0
Headwater CBOD2	-30	0.07	0	30	0.07	0
Headwater Chlorophyll a	-30	0.07	0	30	0.07	0
Headwater NBOD	-30	0.07	0	30	0.07	0
Wasteload Flow	-30	0.07	0	30	0.07	0
Wasteload Temperature	-30	0.07	0	30	0.07	0
Wasteload DO	-30	0.07	0	30	0.07	0
Wasteload CBOD	-30	0.07	0	30	0.07	0
Wasteload CBOD2	-30	0.07	0	30	0.07	0
Wasteload Chlorophyll a	-30	0.07	0	30	0.07	0
Wasteload NBOD	-30	0.07	0	30	0.07	0

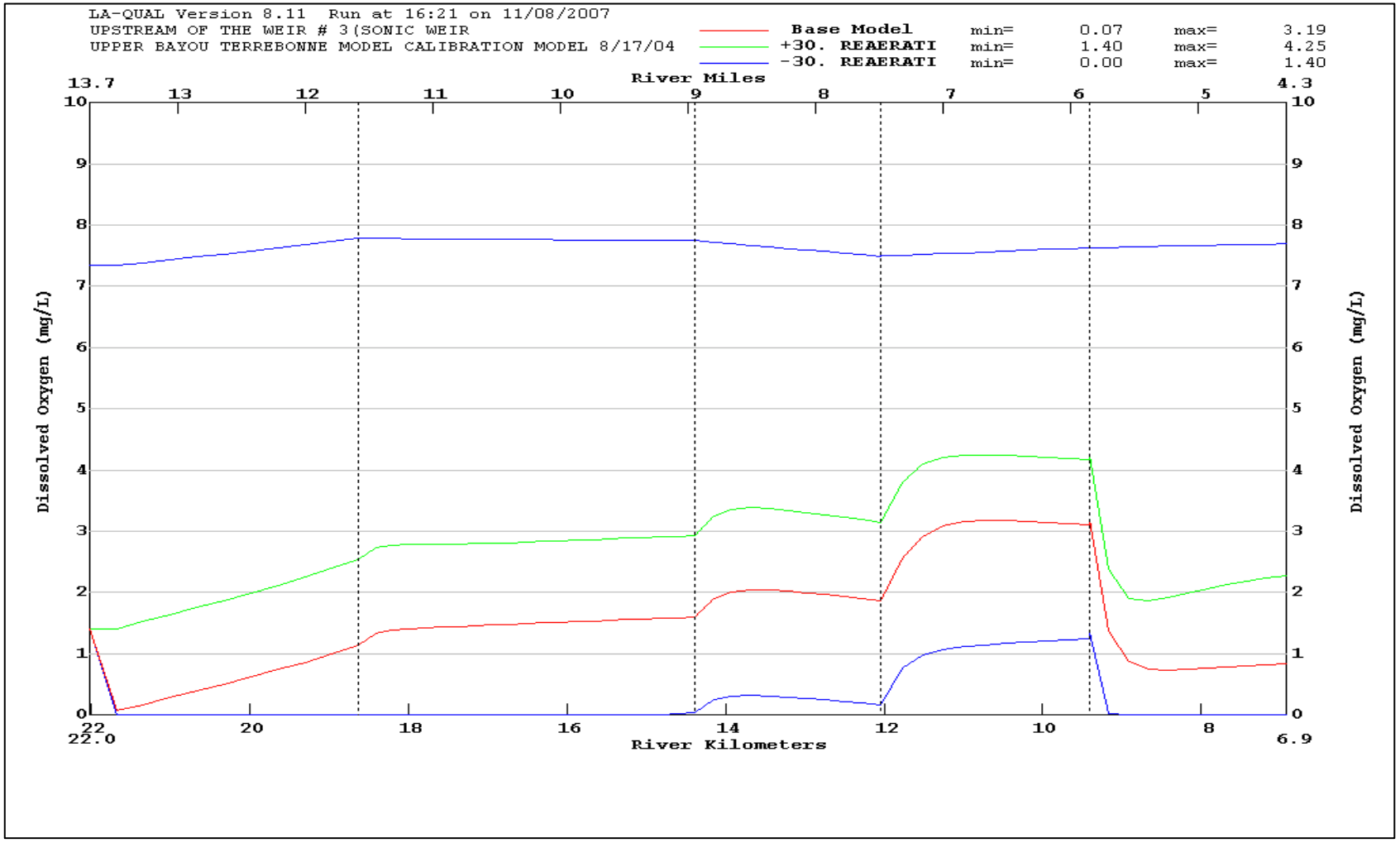
SENSITIVITY ANALYSIS SUMMARY

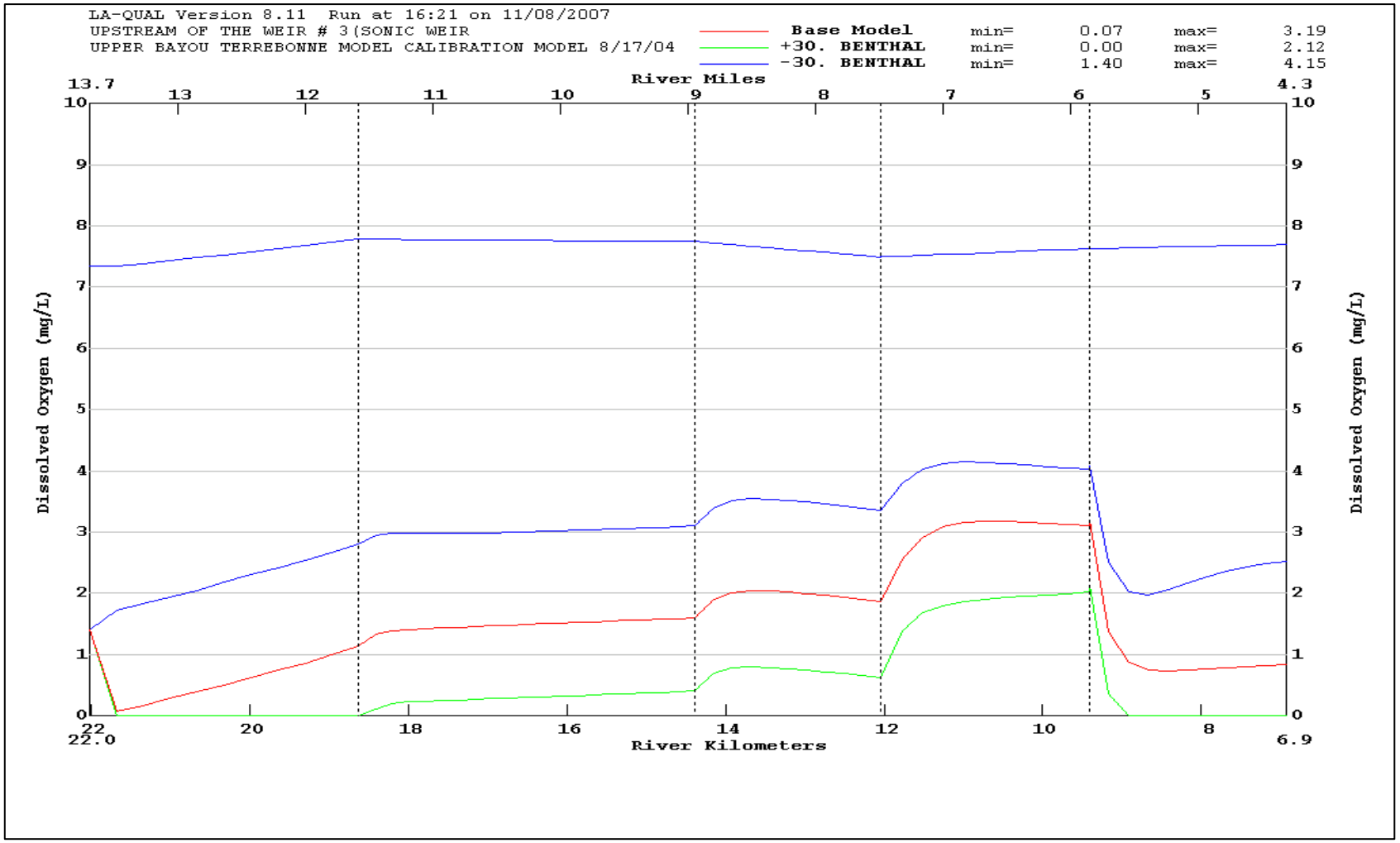
UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
HEADWATER TO WEIR #3

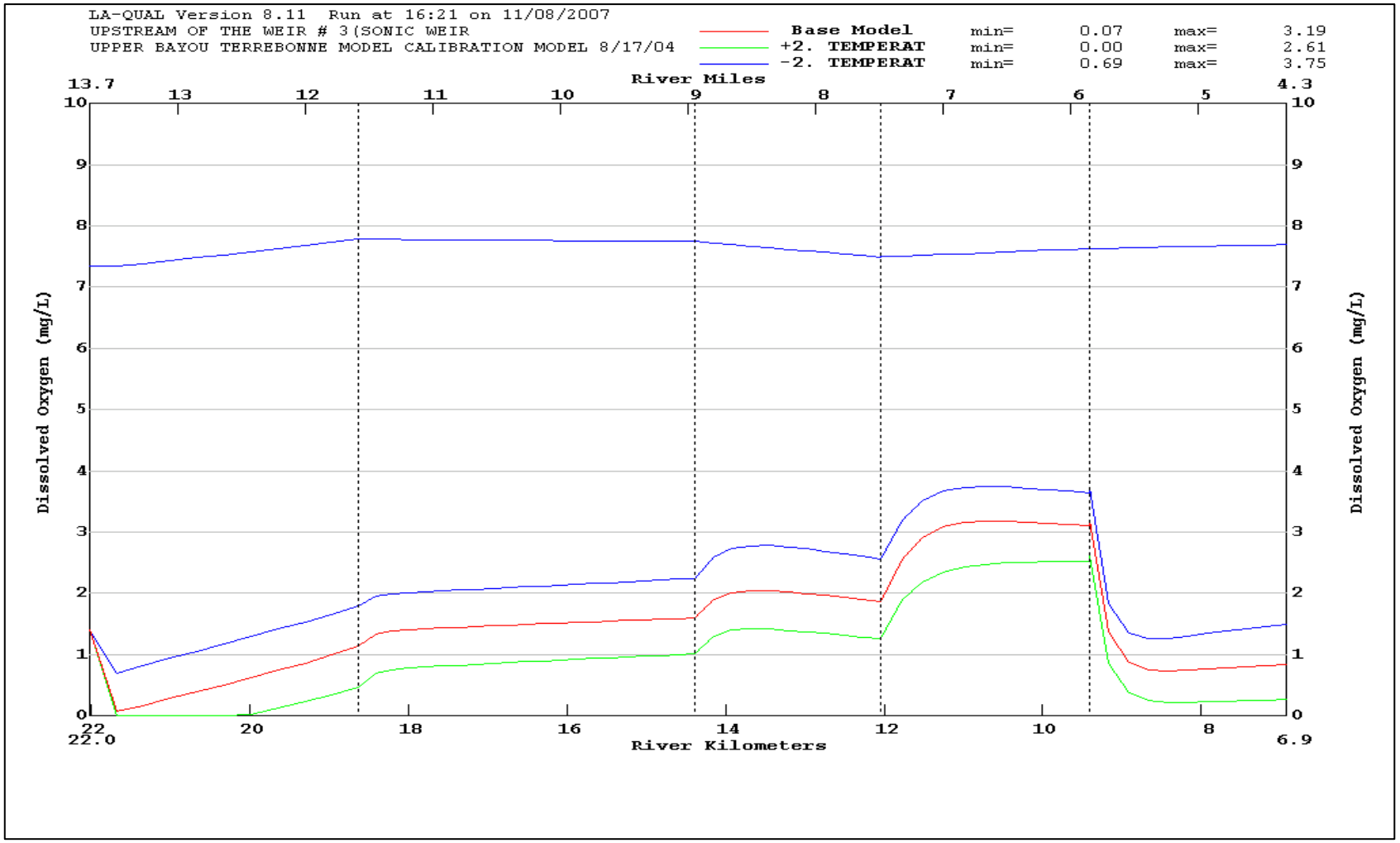
Plot 1 Base Model Minimum DO = 0.07

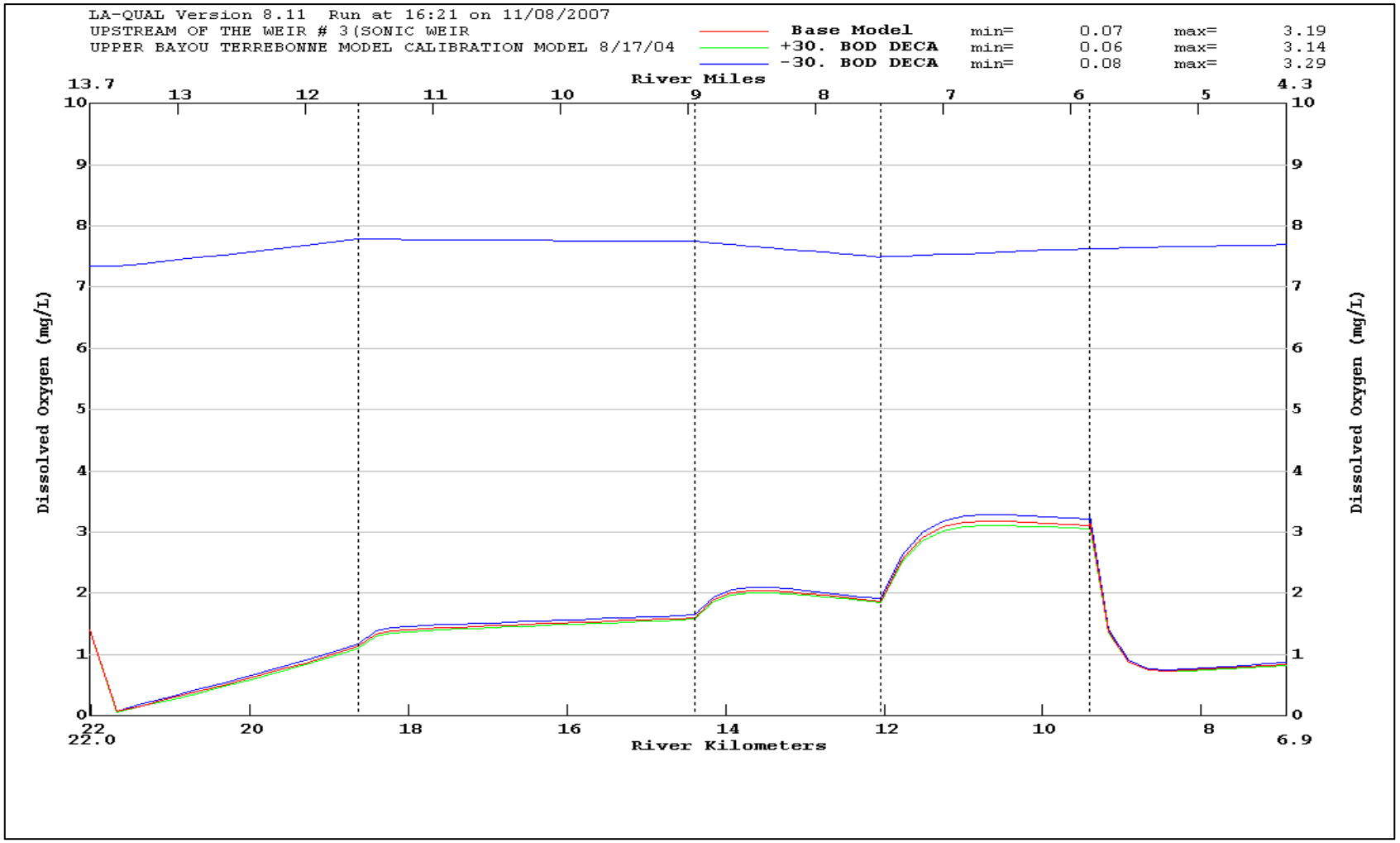
Parameter	% Parameter Change	Min D.O.	% D.O. Change	% Parameter Change	Min D.O.	% D.O. Change
Ocean Exchange Ratio	-30	0.07	0	30	0.07	0
Lower Boundary Temperature	-2	0.07	0	2	0.07	0
Lower Boundary DO	-30	0.07	0	30	0.07	0
Lower Boundary CBOD	-30	0.07	0	30	0.07	0
Lower Boundary CBOD2	-30	0.07	0	30	0.07	0
Lower Boundary Chlorophyll a	-30	0.07	0	30	0.07	0
Lower Boundary NBOD	-30	0.07	0	30	0.07	0
Non-Point Source NBOD	-30	0.07	0	30	0.07	0

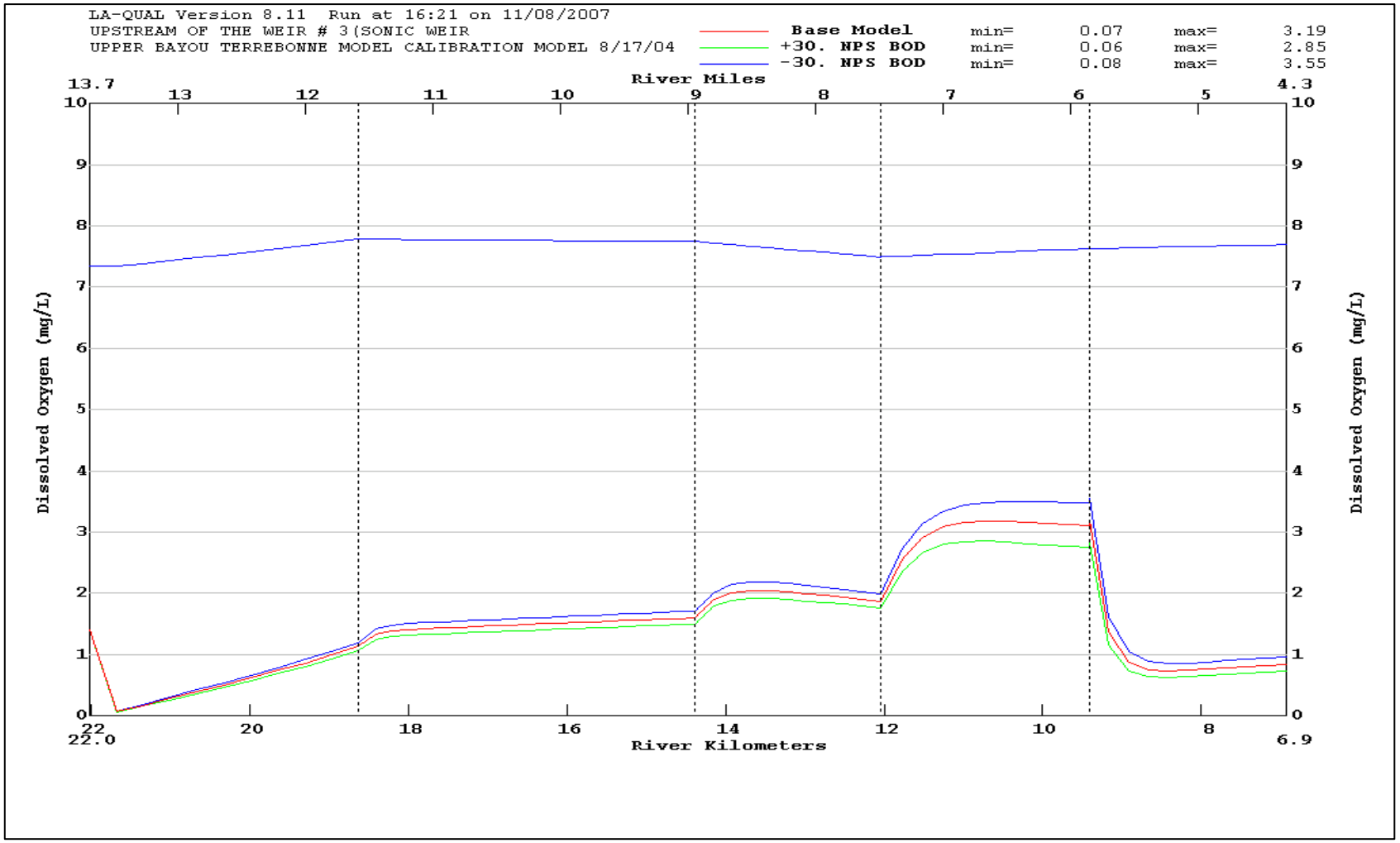
UPPER TERREBONNE SENSITIVITY MODEL GRAPHS

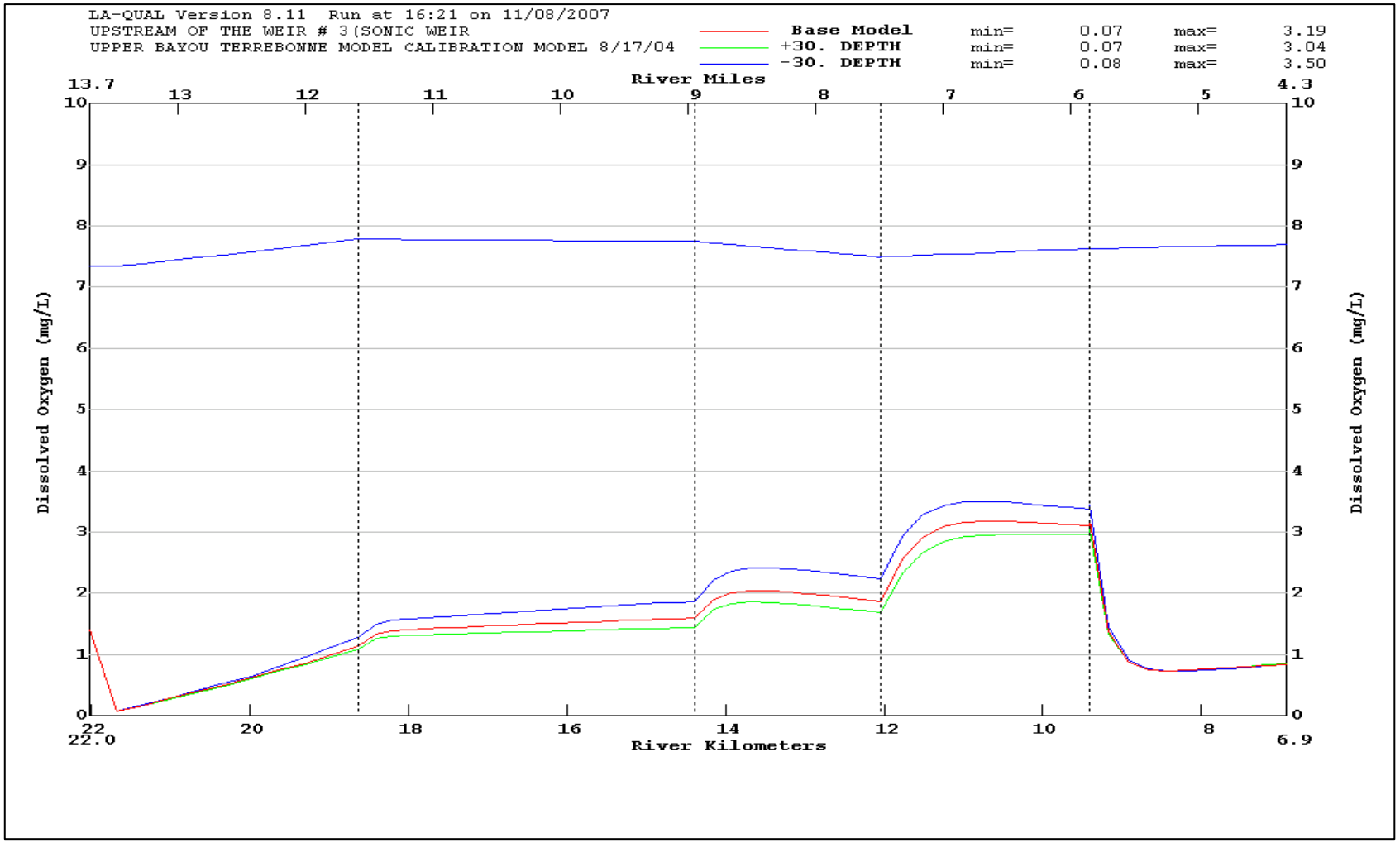



LA-QUAL Version 8.11 Run at 16:21 on 11/08/2007
UPSTREAM OF THE WEIR # 3(SONIC WEIR
UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
Base Model min= 0.07 max= 3.19
+30. BENTHAL min= 0.00 max= 2.12
-30. BENTHAL min= 1.40 max= 4.15
River Miles
13.7
13
12
11
10
9
8
7
6
5
4.3
Dissolved Oxygen (mg/L)
22
22.0
20
18
16
14
12
10
8
6.9
River Kilometers


LA-QUAL Version 8.11 Run at 16:21 on 11/08/2007
UPSTREAM OF THE WEIR # 3(SONIC WEIR
UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
Base Model min= 0.07 max= 3.19
+2. TEMPERAT min= 0.00 max= 2.61
-2. TEMPERAT min= 0.69 max= 3.75
River Miles
13.7
13
12
11
10
9
8
7
6
5
4.3
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
22
22.0
20
18
16
14
12
10
8
6.9
River Kilometers


LA-QUAL Version 8.11 Run at 16:21 on 11/08/2007
UPSTREAM OF THE WEIR # 3(SONIC WEIR
UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
Base Model min= 0.07 max= 3.19
+30. BOD DECA min= 0.06 max= 3.14
-30. BOD DECA min= 0.08 max= 3.29
River Miles
13.7
13
12
11
10
9
8
7
6
5
4.3
Dissolved Oxygen (mg/L)
22
22.0
20
18
16
14
12
10
8
6.9
River Kilometers


LA-QUAL Version 8.11 Run at 16:21 on 11/08/2007
UPSTREAM OF THE WEIR # 3(SONIC WEIR
UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
Base Model min= 0.07 max= 3.19
+30. NPS BOD min= 0.06 max= 2.85
-30. NPS BOD min= 0.08 max= 3.55
River Miles
13.7
13
12
11
10
9
8
7
6
5
4.3
Dissolved Oxygen (mg/L)
0
1
2
3
4
5
6
7
8
9
10
22
22.0
20
18
16
14
12
10
8
6.9
River Kilometers


LA-QUAL Version 8.11 Run at 16:21 on 11/08/2007
UPSTREAM OF THE WEIR # 3(SONIC WEIR
UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
Base Model min= 0.07 max= 3.19
+30. DEPTH min= 0.07 max= 3.04
-30. DEPTH min= 0.08 max= 3.50
River Miles
13.7
13
12
11
10
9
8
7
6
5
4.3
Dissolved Oxygen (mg/L)
22
22.0
20
18
16
14
12
10
8
6.9
River Kilometers

UPPER TERREBONNE SENSITIVITY MODEL INPUT FILE

```
TITLE01      UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
TITLE02      UPSTREAM OF THE WEIR # 3(SONIC WEIR
!   Modeled CBOD1, CBOD2, NBOD, and DO; constant widths and depths;
!   Effective BOD due to algae not utilized due to low BOD numbers
!
!   HYDROLOGIC CALIBRATION DONE AS MUCH AS POSSIBLE
!   WQ CALIBRATION STARTED FOR CBOD1, CBOD2, AND NBOD
!
CONTROL  YES METRIC UNITS
ENDATA01
MODOPTO1  NO TEMPERATURE
MODOPTO2  NO SALINITY
MODOPTO3 YES CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPTO4 YES CONSERVATIVE MATERIAL II = CONDUCTIVITY               IN MG/L
MODOPTO5 YES DISSOLVED OXYGEN
MODOPTO6 YES BOD1
MODOPTO7 YES BOD2
MODOPTO8 YES NBOD OXYGEN DEMAND                                    IN MG/L
MODOPTO9  NO PHOSPHORUS
MODOPT10  NO CHLOROPHYLL A
MODOPT11  NO MACROPHYTES
MODOPT12  NO COLIFORM
MODOPT13  NO NONCONSERVATIVE MATERIAL = NBOD                       IN MG/L
ENDATA02
!PROGRAM  LOGICAL UNIT NUMBER FOR SEQUENCING =     0.0
PROGRAM  KL MINIMUM                          =     0.7
PROGRAM  MAXIMUM ITERATION LIMIT             =   200.
PROGRAM  HYDRAULIC CALCULATION METHOD        =     2.
! No Tide Height for model due to three weirs
PROGRAM  TIDE HEIGHT                         =     0.0
PROGRAM  TIDAL PERIOD                        =     25.0
PROGRAM  EFFECTIVE BOD DUE TO ALGAE          =     0.01
PROGRAM  ALGAE OXYGEN PRODUCTION RATE        =     0.0
PROGRAM  INHIBITION CONTROL VALUE            =     3
PROGRAM  OCEAN EXCHANGE RATIO                =     0.0
PROGRAM  SETTLING RATE UNITS                 =     2
ENDATA03
ENDATA04
ENDATA05
ENDATA06
ENDATA07
! REACH INFO ENTERED 9/16/04; Removed last element above Weir #3 10/27/04
!000000001111111111222222222233333333334444444444555555555566666666667777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
REACH ID    1  BT BT01 & BT-02                        22.03     18.63    0.3400
REACH ID    2  BT BT02 & BT-03                        18.63     14.39    0.2120
REACH ID    3  BT BT03 TO GLASS SHOP WEIR             14.39     12.04    0.2350
REACH ID    4  BT GLASS SHOP WEIR TO COTEAU WEIR      12.04      9.41    0.2630
REACH ID    5  BT COTEAU WEIR TO SONIC WEIR            9.41      6.93    0.2480
!
!  Datatype 9 revised 9/24/2007; width and depth constants determined by the
!   downstream site in each reach
ENDATA08
HYDR-1      1        0      0  16.46      0      0   0.40       0  0.03
HYDR-1      2        0      0  17.68      0      0   0.37       0  0.03
```

```
HYDR-1      3        0      0  17.68      0      0   0.36       0  0.03
HYDR-1      4        0      0  16.46      0      0   0.49       0  0.03
HYDR-1      5        0      0  17.68      0      0   0.95       0  0.03
ENDATA09
! REACH INFO ENTERED 10/31/04; Dispersion values based on value that calibrated
for
!       Reach 5; This worked for a reach between two weirs and should apply to
other
!       reaches; Revised 10/8/2007--> This area not considered to be tidal due
to weirs;
!       set TRANGE=1.0 and calibrated dispersion by calibrating (best fit) to
conservatives
!       by adjusting "a"; reaches 3 and 4 cannot have TRANGE-both are upstream
of a weir
!       ****Used default dipersion option = 1 -->dispersion = "a", i.e.
dispersion = 0****
!000000001111111111222222222233333333334444444444555555555566666666667777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!         RCH TRANGE       "a"       "b"       "c"       "d"
HYDR-2      1    0.0      0.00     0.830         0      1.00
HYDR-2      2    0.0      0.00     0.830         0      1.00
HYDR-2      3    0.0      0.00     0.830         0      1.00
HYDR-2      4    0.0      0.00     0.830         0      1.00
HYDR-2      5    0.0      0.00     0.830         0      1.00
ENDATA10
! DATA ENTERED 9/19/04
! Initial conditions temp, DO, sal, and chl a revised 10/2/07 to match site
located
!  at/near the upstream end of each reach
!000000001111111111222222222233333333334444444444555555555566666666667777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!                  TEMP     SAL      DO                           CHL A   MACRO
INITIAL     1     32.05    0.20    1.40    0.00   0.000    0.00   62.90     0.0
INITIAL     2     28.25    0.22    0.24    0.00   0.000    0.00    9.70     0.0
INITIAL     3     28.53    0.22    1.59    0.00   0.000    0.00    8.30     0.0
INITIAL     4     30.43    0.20    5.15    0.00   0.000    0.00    5.80     0.0
INITIAL     5     29.40    0.19    3.25    0.00   0.000    0.00   10.90     0.0
ENDATA11
```

```
!  Data Entered 9/19/04
!  Decay rates revised on 9/25/07 to coincide with values obtained at site located at the downstream
!   end of each reach
!000000001111111111222222222233333333334444444444555555555566666666667777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!                  REAERATION             SOD BOD1DEC  SETT CON2SOD ANEARO BOD2DEC SETT CON2SOD ANEARO
COEF-1      1     15   0.0  0.0    0.0   3.00   0.23   0.05    0.0    0.0   0.03   0.05    0.0    0.0
COEF-1      2     15   0.0  0.0    0.0   2.80   0.31   0.05    0.0    0.0   0.03   0.05    0.0    0.0
COEF-1      3     15   0.0  0.0    0.0   2.50   0.27   0.05    0.0    0.0   0.03   0.05    0.0    0.0
COEF-1      4     15   0.0  0.0    0.0   1.40   0.30   0.05    0.0    0.0   0.04   0.05    0.0    0.0
COEF-1      5     15   0.0  0.0    0.0   2.95   0.25   0.05    0.0    0.0   0.03   0.05    0.0    0.0
ENDATA12
!  Data Entered 9/19/04
!  Decay rates revised on 9/25/07 to coincide with values obtained at site located at the downstream
!   end of each reach
!000000001111111111222222222233333333334444444444555555555566666666667777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!               NBODDEC NBODSETT
COEF-2      1     0.11  0.025    0.0    0.0    0.0    0.0    0.0
COEF-2      2     0.17  0.025    0.0    0.0    0.0    0.0    0.0
COEF-2      3     0.06  0.025    0.0    0.0    0.0    0.0    0.0
COEF-2      4     0.10  0.025    0.0    0.0    0.0    0.0    0.0
COEF-2      5     0.10  0.025    0.0    0.0    0.0    0.0    0.0
ENDATA13
ENDATA14
ENDATA15
!  Incremental data input started on 10/2/2007 finito on 10/5/2007; no WQ data needed
!       due to outflow conditions
!000000001111111111222222222233333333334444444444555555555566666666667777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!          R#    OUTFLOW   INFLOW     TEMP      SAL CONSERVI CONSERV2
INCR-1      1             0.01896    28.25     0.22     17.1    429.8
INCR-1      2             0.02364    28.53     0.22     16.4    430.8
INCR-1      3             0.01310    28.84     0.19     12.8    381.2
INCR-1      4   -0.02098
INCR-1      5   -0.01331
ENDATA16
```

```
!000000001111111111222222222233333333333444444444455555555556666666666677
777777778
!234567890123456789012345678901234567890123456789012345678901234567890123
234567890
!          R#          DO     BOD1     NBOD      NH3      NO2     BOD2
INCR-2      1        0.24     4.10     2.68                       4.47
INCR-2      2        1.59     3.60     3.04                       4.78
INCR-2      3        1.71     3.52     1.27                       3.89
INCR-2      4
INCR-2      5
ENDATA17
!000000001111111111222222222233333333333444444444455555555556666666666677
777777778
!234567890123456789012345678901234567890123456789012345678901234567890123
234567890
!          R#        PHOS   CHLORA     COLI      NCM
INCR-3      1                 9.7
INCR-3      2                 8.3
INCR-3      3                 5.6
INCR-3      4
INCR-3      5
ENDATA18
!    Data modified 7/8/05; recalibrated 10/8/2007
!000000001111111111222222222233333333333444444444455555555556666666666677
777777778
!234567890123456789012345678901234567890123456789012345678901234567890123
234567890
!                   BOD1     NBOD                          DO     BOD2
NONPOINT    1       18.5      2.2                                 8.0
NONPOINT    2       41.0      9.3                                13.0
NONPOINT    3       22.0      0.0                                 3.5
NONPOINT    4       54.0     10.0                                17.0
NONPOINT    5       24.0      1.5                                 9.8
ENDATA19
!ALL HEADWATER DATA HAS BEEN INPUT
!000000001111111111222222222233333333333444444444455555555556666666666677
777777778
!234567890123456789012345678901234567890123456789012345678901234567890123
234567890
!                                          FLOW    TEMP     SAL
CL    COND
HDWTR-1     1  BT01                  0   0.00000   32.05     0.2
16.2  452.39
ENDATA20
!000000001111111111222222222233333333333444444444455555555556666666666677
777777778
!234567890123456789012345678901234567890123456789012345678901234567890123
234567890
!                     DO     BOD1     NBOD                          BOD2
HDWTR-2     1        1.4    12.13     5.15      0.0      0.0    12.40
ENDATA21
!000000001111111111222222222233333333333444444444455555555556666666666677
777777778
!234567890123456789012345678901234567890123456789012345678901234567890123
234567890
!                           CHL A
```

```
HDWTR-3     1        0.0     62.9      0.0      0.0
ENDATA22
ENDATA23
ENDATA24
ENDATA25
ENDATA26
!  LBC data entered 9/19/04; revised 10/16/07
LOWER BC TEMPERATURE                        =  28.90
LOWER BC SALINITY                           =   0.18
LOWER BC CONSERVATIVE MATERIAL I            =   11.7
LOWER BC CONSERVATIVE MATERIAL II           = 359.60
LOWER BC DISSOLVED OXYGEN                   =   0.77
LOWER BC BOD1                               =   2.85
LOWER BC BOD2                               =   3.44
LOWER BC PHOSPHORUS                         =   0.00
LOWER BC CHLOROPHYLL A                      =  11.70
LOWER BC COLIFORM                           =   0.00
LOWER BC NBOD                               =   1.71
ENDATA27
!  Data modified 7/8/05
!000000001111111111222222222233333333333444444444455555555556666666666677
777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789
234567890
DAM DATA   41       WEIR #1 Glass    1     0.65     0.0     0.2
DAM DATA   51       WEIR #2 Coteau   1     0.65     0.1    0.32
ENDATA28
SENSITIV DEPTH        -30     30
SENSITIV BASEFLOW     -30     30
SENSITIV REAERATI     -30     30
SENSITIV VELOCITY     -30     30
SENSITIV BOD DECA     -30     30
SENSITIV BOD SETT     -30     30
SENSITIV BOD2 DEC     -30     30
SENSITIV BOD2 SET     -30     30
SENSITIV TRANGE       -30     30
SENSITIV ARATIO       -30     30
SENSITIV NBOD DEC     -30     30
SENSITIV NBOD SET     -30     30
SENSITIV BENTHAL      -30     30
SENSITIV TEMPERAT      -2      2
SENSITIV SALINITY     -30     30
SENSITIV CHLOR A      -30     30
SENSITIV INC INFL     -30     30
SENSITIV INC OUTF     -30     30
SENSITIV INC TEMP     -30     30
SENSITIV INC DO       -30     30
SENSITIV INC BOD      -30     30
SENSITIV INC BOD2     -30     30
SENSITIV INC CHLO     -30     30
SENSITIV INC NBOD     -30     30
!SENSITIV DISPERSI     -30     30
SENSITIV HDW FLOW     -30     30
SENSITIV HDW TEMP      -2      2
SENSITIV HDW DO       -30     30
SENSITIV HDW BOD      -30     30
```

```
SENSITIV HDW BOD2     -30     30
SENSITIV HDW CHLO     -30     30
SENSITIV HDW NBOD     -30     30
SENSITIV WSL FLOW     -30     30
SENSITIV WSL TEMP     -30     30
SENSITIV WSL DO       -30     30
SENSITIV WSL BOD      -30     30
SENSITIV WSL BOD2     -30     30
SENSITIV WSL CHLO     -30     30
SENSITIV WSL NBOD     -30     30
SENSITIV OXR          -30     30
SENSITIV LBC TEMP      -2      2
SENSITIV LBC DO       -30     30
SENSITIV LBC BOD      -30     30
SENSITIV LBC BOD2     -30     30
SENSITIV LBC CHLO     -30     30
SENSITIV LBC NBOD     -30     30
SENSITIV NPS BOD      -30     30
SENSITIV NPS BOD2     -30     30
SENSITIV NPS NBOD     -30     30
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 = 5
PLOT RCH 1  2  3  4  5
ENDATA30
OVERLAY 1 UpperBTCalOverlay.txt
ENDATA31
```

UPPER TERREBONNE SENSITIVITY MODEL OUTPUT FILE

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is C:\AA_DAILY WORKING FOLDER\AA_TRANSFER BTERR DATASET\LAQUAL CAL REVIEW_09182007\Reported Cal
Model Rev\Sensitivity\UpBTerrCalSensi5R.txt
Output produced at 13:46 on 10/31/2007

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

CARD TYPE       CONTROL TITLES

TITLE01         UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
TITLE02         UPSTREAM OF THE WEIR # 3(SONIC WEIR
CONTROL   YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPTO1   NO   TEMPERATURE
MODOPTO2   NO   SALINITY
MODOPTO3  YES   CONSERVATIVE MATERIAL  I = CHLORIDES                 IN MG/L
MODOPTO4  YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY              IN MG/L
MODOPTO5  YES   DISSOLVED OXYGEN
MODOPTO6  YES   BOD1
MODOPTO7  YES   BOD2
MODOPTO8  YES   NBOD OXYGEN DEMAND                                   IN MG/L
MODOPTO9   NO   PHOSPHORUS
MODOPT10   NO   CHLOROPHYLL A
MODOPT11   NO   MACROPHYTES
MODOPT12   NO   COLIFORM
MODOPT13   NO   NONCONSERVATIVE MATERIAL = NBOD                      IN MG/L
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE
```

```
PROGRAM         KL MINIMUM                          =         0.70000 meters/day
PROGRAM         MAXIMUM ITERATION LIMIT             =       200.00000
PROGRAM         HYDRAULIC CALCULATION METHOD        =         2.00000 (widths and depths)
PROGRAM         TIDE HEIGHT                         =         0.00000 meters
PROGRAM         TIDAL PERIOD                        =        25.00000 hours
PROGRAM         EFFECTIVE BOD DUE TO ALGAE          =         0.01000 mg/L BOD per ug/L chl a
PROGRAM         ALGAE OXYGEN PRODUCTION RATE        =         0.00000 mg O/ug chl a/day
PROGRAM         INHIBITION CONTROL VALUE            =         3.00000 (inhibit all rates but SOD)
PROGRAM         OCEAN EXCHANGE RATIO                =         0.00000
PROGRAM         SETTLING RATE UNITS                 =         2.00000 (values entered as per 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   BT  BT01 & BT-02                      22.03  TO   18.63   0.3400     3.40      10        1     10
REACH ID      2   BT  BT02 & BT-03                      18.63  TO   14.39   0.2120     4.24      20       11     30
REACH ID      3   BT  BT03 TO GLASS SHOP WEIR           14.39  TO   12.04   0.2350     2.35      10       31     40
REACH ID      4   BT  GLASS SHOP WEIR TO COTEAU WEIR    12.04  TO    9.41   0.2630     2.63      10       41     50
REACH ID      5   BT  COTEAU WEIR TO SONIC WEIR          9.41  TO    6.93   0.2480     2.48      10       51     60
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   BT       0.000       0.000      16.460       0.000       0.000       0.400    0.00000    0.030
HYDR-1        2   BT       0.000       0.000      17.680       0.000       0.000       0.370    0.00000    0.030
HYDR-1        3   BT       0.000       0.000      17.680       0.000       0.000       0.360    0.00000    0.030
HYDR-1        4   BT       0.000       0.000      16.460       0.000       0.000       0.490    0.00000    0.030
HYDR-1        5   BT       0.000       0.000      17.680       0.000       0.000       0.950    0.00000    0.030
ENDATA09

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

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

HYDR          1   BT      0.00       0.000          0.830          0.000          1.000
HYDR          2   BT      0.00       0.000          0.830          0.000          1.000
HYDR          3   BT      0.00       0.000          0.830          0.000          1.000
HYDR          4   BT      0.00       0.000          0.830          0.000          1.000
HYDR          5   BT      0.00       0.000          0.830          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	BT	32.05	0.20	1.40	0.00	0.00	0.00	62.90	0.00
INITIAL	2	BT	28.25	0.22	0.24	0.00	0.00	0.00	9.70	0.00
INITIAL	3	BT	28.53	0.22	1.59	0.00	0.00	0.00	8.30	0.00
INITIAL	4	BT	30.43	0.20	5.15	0.00	0.00	0.00	5.80	0.00
INITIAL	5	BT	29.40	0.19	3.25	0.00	0.00	0.00	10.90	0.00

ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$

CARD TYPE	RCH NUM	RCH ID	K2 OPT	K2 "A"	K2 "B"	K2 "C"	BKGRND SOD g/m²/d	BOD DECAY per day	BOD SETT m/d	BOD CONV TO SOD	ANAER BOD2 DECAY per day	BOD2 DECAY per day	BOD2 SETT m/d	BOD2 CONV TO SOD	ANAER BOD2 DECAY per day
COEF-1	1	BT	15 LOUISIANA	0.000	0.000	0.000	3.000	0.230	0.050	0.000	0.000	0.030	0.050	0.000	0.000
COEF-1	2	BT	15 LOUISIANA	0.000	0.000	0.000	2.800	0.310	0.050	0.000	0.000	0.030	0.050	0.000	0.000
COEF-1	3	BT	15 LOUISIANA	0.000	0.000	0.000	2.500	0.270	0.050	0.000	0.000	0.030	0.050	0.000	0.000
COEF-1	4	BT	15 LOUISIANA	0.000	0.000	0.000	1.400	0.300	0.050	0.000	0.000	0.040	0.050	0.000	0.000
COEF-1	5	BT	15 LOUISIANA	0.000	0.000	0.000	2.950	0.250	0.050	0.000	0.000	0.030	0.050	0.000	0.000

ENDATA12

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

CARD TYPE	REACH	ID	NBOD DECA	NBOD SETT	ORGN CONV TO NH3 SRCE	NH3 DECA	NH3 SRCE	PHOS SRCE	DENIT RATE
COEF-2	1	BT	0.110	0.025	0.000	0.000	0.000	0.000	0.000
COEF-2	2	BT	0.170	0.025	0.000	0.000	0.000	0.000	0.000
COEF-2	3	BT	0.060	0.025	0.000	0.000	0.000	0.000	0.000
COEF-2	4	BT	0.100	0.025	0.000	0.000	0.000	0.000	0.000
COEF-2	5	BT	0.100	0.025	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   SHADING

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   BT       0.00000     0.01896     28.25      0.22     17.10    429.80   0.00558
0.00000
INCR-1           2   BT       0.00000     0.02364     28.53      0.22     16.40    430.80   0.00558
0.00000
INCR-1           3   BT       0.00000     0.01310     28.84      0.19     12.80    381.20   0.00557
0.00000
INCR-1           4   BT      -0.02098     0.00000      0.00      0.00      0.00      0.00   0.00000  -
0.00798
INCR-1           5   BT      -0.01331     0.00000      0.00      0.00      0.00      0.00   0.00000  -
0.00537
ENDATA16
```

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

INCR-2           1   BT        0.24      4.10      2.68      0.00      0.00      4.47
INCR-2           2   BT        1.59      3.60      3.04      0.00      0.00      4.78
INCR-2           3   BT        1.71      3.52      1.27      0.00      0.00      3.89
INCR-2           4   BT        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2           5   BT        0.00      0.00      0.00      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   BT        0.00      9.70      0.00      0.00
INCR-3           2   BT        0.00      8.30      0.00      0.00
INCR-3           3   BT        0.00      5.60      0.00      0.00
INCR-3           4   BT        0.00      0.00      0.00      0.00
INCR-3           5   BT        0.00      0.00      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   BT       18.50      2.20      0.00      0.00      0.00      8.00
NONPOINT         2   BT       41.00      9.30      0.00      0.00      0.00     13.00
NONPOINT         3   BT       22.00      0.00      0.00      0.00      0.00      3.50
NONPOINT         4   BT       54.00     10.00      0.00      0.00      0.00     17.00
NONPOINT         5   BT       24.00      1.50      0.00      0.00      0.00      9.80
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     BT01                    0   0.00000    0.000   32.05     0.20    16.200   452.390
0.00
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     BT01                      1.40     12.13      5.15      0.00      0.00     12.40
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     BT01                       0.00     62.90      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

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     28.900     deg C
LOWER BC     SALINITY                          =      0.180     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =     11.700     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =    359.600     MG/L
LOWER BC     DISSOLVED OXYGEN                  =      0.770     mg/L
LOWER BC     BOD1                              =      2.850     mg/L
LOWER BC     BOD2                              =      3.440     mg/L
LOWER BC     PHOSPHORUS                        =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                     =     11.700     µg/L
LOWER BC     COLIFORM                          =      0.000     #/100 mL
LOWER BC     NBOD                              =      1.710     mg/L
ENDATA27

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

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

DAM DATA         41          WEIR #1 Glass      1     0.650     0.000     0.200
DAM DATA         51          WEIR #2 Coteau     1     0.650     0.100     0.320
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	DEPTH	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	BASEFLOW	-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
SENSITIV	VELOCITY	-30.0	30.0	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	BOD2 DEC	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	BOD2 SET	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	TRANGE	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	ARATIO	-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	TEMPERAT	-2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	SALINITY	-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	INC INFL	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC OUTF	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC TEMP	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC DO	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC BOD	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC BOD2	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC CHLO	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC NBOD	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	HDW FLOW	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	HDW TEMP	-2.0	2.0	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 BOD2	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	HDW CHLO	-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	WSL FLOW	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	WSL TEMP	-30.0	30.0	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 BOD2     -30.0      30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL CHLO     -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         OXR          -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 BOD2     -30.0      30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC CHLO     -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
SENSITIV         NPS BOD      -30.0      30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NPS BOD2     -30.0      30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NPS 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
$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 UpperBTCalOverlay.txt
ENDATA31


     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 21
```

FINAL REPORT BT01 UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
REACH NO. 1 BT01 & BT-02 UPSTREAM OF THE WEIR # 3(SONIC WEIR

********** 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 MG/L
1	HDWTR	0.00000	32.05	0.20	16.20	452.39	1.40	11.50	12.40	12.13	12.40	5.15	0.00	0.00	0.00	62.90	0.00	0.00
EACH	INCR	0.00190	28.25	0.22	17.10	429.80	0.24	4.10	4.47			2.68	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	22.03	21.69	0.00190	0.0	0.00029	13.66	0.40	16.46	2238.56	5596.40	6.58	0.00	0.000	0.000	0.000
2	21.69	21.35	0.00379	0.0	0.00058	6.83	0.40	16.46	2238.56	5596.40	6.58	0.00	0.000	0.000	0.001
3	21.35	21.01	0.00569	0.0	0.00086	4.55	0.40	16.46	2238.56	5596.40	6.58	0.00	0.000	0.000	0.001
4	21.01	20.67	0.00758	0.0	0.00115	3.42	0.40	16.46	2238.56	5596.40	6.58	0.00	0.000	0.000	0.001
5	20.67	20.33	0.00948	0.0	0.00144	2.73	0.40	16.46	2238.56	5596.40	6.58	0.00	0.000	0.000	0.001
6	20.33	19.99	0.01138	0.0	0.00173	2.28	0.40	16.46	2238.56	5596.40	6.58	0.00	0.000	0.000	0.002
7	19.99	19.65	0.01327	0.0	0.00202	1.95	0.40	16.46	2238.56	5596.40	6.58	0.00	0.000	0.000	0.002
8	19.65	19.31	0.01517	0.0	0.00230	1.71	0.40	16.46	2238.56	5596.40	6.58	0.00	0.000	0.000	0.002
9	19.31	18.97	0.01706	0.0	0.00259	1.52	0.40	16.46	2238.56	5596.40	6.58	0.00	0.000	0.000	0.003
10	18.97	18.63	0.01896	0.0	0.00288	1.37	0.40	16.46	2238.56	5596.40	6.58	0.00	0.000	0.000	0.003
TOT						40.02			22385.60	55963.99					
AVG					0.0010		0.40	16.46			6.58				
CUM						40.02									

********** 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	21.690	7.34	2.17	0.01	0.07	0.00	0.00	0.07	0.00	6.26	6.26	6.26	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	21.350	7.39	2.15	0.03	0.07	0.00	0.00	0.07	0.00	6.11	6.11	6.11	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	21.010	7.43	2.14	0.05	0.06	0.00	0.01	0.06	0.00	5.96	5.96	5.96	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	20.670	7.48	2.12	0.07	0.06	0.00	0.01	0.06	0.00	5.82	5.82	5.82	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	20.330	7.53	2.11	0.09	0.06	0.00	0.01	0.06	0.00	5.68	5.68	5.68	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	19.990	7.58	2.10	0.11	0.06	0.00	0.01	0.06	0.00	5.55	5.55	5.55	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	19.650	7.63	2.08	0.13	0.06	0.00	0.02	0.06	0.00	5.42	5.42	5.42	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	19.310	7.68	2.07	0.15	0.06	0.00	0.02	0.06	0.00	5.29	5.29	5.29	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	18.970	7.73	2.06	0.17	0.06	0.00	0.02	0.06	0.00	5.17	5.17	5.17	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	18.630	7.78	2.06	0.19	0.06	0.00	0.02	0.06	0.00	5.04	5.04	5.04	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.75	0.23	0.05	0.00	0.03	0.05	0.00	3.00			0.11	0.03	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 MG/L
1	21.690	31.67	0.20	17.10	429.80	0.07	7.35	4.86	7.92	4.86	2.76	0.00	0.00	0.00	0.00	57.58	0.00	0.	0.00
2	21.350	31.29	0.20	17.10	429.80	0.17	6.79	4.81	7.31	4.81	2.77	0.00	0.00	0.00	0.00	52.26	0.00	0.	0.00
3	21.010	30.91	0.21	17.10	429.80	0.28	6.28	4.77	6.75	4.77	2.77	0.00	0.00	0.00	0.00	46.94	0.00	0.	0.00
4	20.670	30.53	0.21	17.10	429.80	0.39	5.83	4.72	6.24	4.72	2.78	0.00	0.00	0.00	0.00	41.62	0.00	0.	0.00
5	20.330	30.15	0.21	17.10	429.80	0.50	5.42	4.68	5.78	4.68	2.78	0.00	0.00	0.00	0.00	36.30	0.00	0.	0.00
6	19.990	29.77	0.21	17.10	429.80	0.62	5.06	4.64	5.37	4.64	2.78	0.00	0.00	0.00	0.00	30.98	0.00	0.	0.00
7	19.650	29.39	0.21	17.10	429.80	0.74	4.74	4.60	5.00	4.60	2.77	0.00	0.00	0.00	0.00	25.66	0.00	0.	0.00
8	19.310	29.01	0.22	17.10	429.80	0.86	4.46	4.56	4.67	4.56	2.75	0.00	0.00	0.00	0.00	20.34	0.00	0.	0.00
9	18.970	28.63	0.22	17.10	429.80	0.99	4.21	4.52	4.36	4.52	2.72	0.00	0.00	0.00	0.00	15.02	0.00	0.	0.00
10	18.630	28.25	0.22	17.10	429.80	1.13	3.98	4.48	4.08	4.48	2.68	0.00	0.00	0.00	0.00	9.70	0.00	0.	0.00

REACH NO. 2 BT02 & BT-03 UPSTREAM OF THE WEIR # 3(SONIC WEIR

********** 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 MG/L
11	UPR RCH	0.01896	28.25	0.22	17.10	429.80	1.13	3.98	4.48	4.08	4.48	2.68	0.00	0.00	0.00	9.70	0.00	0.00
EACH	INCR	0.00118	28.53	0.22	16.40	430.80	1.59	3.60	4.78			3.04	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
11	18.63	18.42	0.02014	0.0	0.00308	0.80	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.003
12	18.42	18.21	0.02132	0.0	0.00326	0.75	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.003
13	18.21	17.99	0.02251	0.0	0.00344	0.71	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.003
14	17.99	17.78	0.02369	0.0	0.00362	0.68	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.004
15	17.78	17.57	0.02487	0.0	0.00380	0.65	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.004
16	17.57	17.36	0.02605	0.0	0.00398	0.62	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.004
17	17.36	17.15	0.02723	0.0	0.00416	0.59	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.004
18	17.15	16.93	0.02842	0.0	0.00434	0.56	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.004
19	16.93	16.72	0.02960	0.0	0.00452	0.54	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.005
20	16.72	16.51	0.03078	0.0	0.00471	0.52	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.005
21	16.51	16.30	0.03196	0.0	0.00489	0.50	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.005
22	16.30	16.09	0.03314	0.0	0.00507	0.48	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.005
23	16.09	15.87	0.03433	0.0	0.00525	0.47	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.005
24	15.87	15.66	0.03551	0.0	0.00543	0.45	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.005
25	15.66	15.45	0.03669	0.0	0.00561	0.44	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.006
26	15.45	15.24	0.03787	0.0	0.00579	0.42	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.006
27	15.24	15.03	0.03905	0.0	0.00597	0.41	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.006
28	15.03	14.81	0.04024	0.0	0.00615	0.40	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.006
29	14.81	14.60	0.04142	0.0	0.00633	0.39	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.006
30	14.60	14.39	0.04260	0.0	0.00651	0.38	0.37	17.68	1386.82	3748.16	6.54	0.00	0.000	0.000	0.007

TOT							10.76						27736.38	74963.20										
AVG						0.0046			0.37	17.68							6.54							
CUM							50.79																	

********** 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
11	18.418	7.78	2.23	0.30	0.06	0.00	0.03	0.06	0.00	4.71	4.71	4.71	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	18.206	7.78	2.24	0.31	0.06	0.00	0.03	0.06	0.00	4.72	4.72	4.72	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	17.994	7.78	2.25	0.32	0.06	0.00	0.03	0.06	0.00	4.72	4.72	4.72	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	17.782	7.78	2.26	0.32	0.06	0.00	0.03	0.06	0.00	4.72	4.72	4.72	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	17.570	7.77	2.27	0.32	0.06	0.00	0.03	0.06	0.00	4.73	4.73	4.73	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	17.358	7.77	2.28	0.33	0.06	0.00	0.03	0.06	0.00	4.73	4.73	4.73	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	17.146	7.77	2.29	0.33	0.06	0.00	0.03	0.06	0.00	4.74	4.74	4.74	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	16.934	7.77	2.29	0.33	0.06	0.00	0.03	0.06	0.00	4.74	4.74	4.74	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	16.722	7.77	2.30	0.34	0.06	0.00	0.03	0.06	0.00	4.75	4.75	4.75	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	16.510	7.76	2.31	0.34	0.06	0.00	0.03	0.06	0.00	4.75	4.75	4.75	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	16.298	7.76	2.32	0.34	0.06	0.00	0.03	0.06	0.00	4.75	4.75	4.75	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	16.086	7.76	2.33	0.34	0.06	0.00	0.03	0.06	0.00	4.76	4.76	4.76	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	15.874	7.76	2.34	0.35	0.06	0.00	0.03	0.06	0.00	4.76	4.76	4.76	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	15.662	7.76	2.35	0.35	0.06	0.00	0.03	0.06	0.00	4.77	4.77	4.77	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	15.450	7.75	2.36	0.35	0.06	0.00	0.03	0.06	0.00	4.77	4.77	4.77	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	15.238	7.75	2.36	0.36	0.06	0.00	0.03	0.06	0.00	4.77	4.77	4.77	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	15.026	7.75	2.37	0.36	0.06	0.00	0.03	0.06	0.00	4.78	4.78	4.78	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	14.814	7.75	2.38	0.36	0.06	0.00	0.03	0.06	0.00	4.78	4.78	4.78	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	14.602	7.75	2.39	0.36	0.06	0.00	0.04	0.06	0.00	4.79	4.79	4.79	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	14.390	7.75	2.40	0.37	0.06	0.00	0.04	0.06	0.00	4.79	4.79	4.79	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.98	0.31	0.05	0.00	0.03	0.05	0.00	2.80			0.17	0.03	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/m³	COLI #/100mL	NCM MG/L
11	18.418	28.26	0.22	17.06	429.86	1.33	4.00	4.54	4.09	4.54	2.80	0.00	0.00	0.00	0.00	9.63	0.00	0.	0.00
12	18.206	28.28	0.22	17.02	429.91	1.39	3.97	4.59	4.07	4.59	2.88	0.00	0.00	0.00	0.00	9.56	0.00	0.	0.00
13	17.994	28.29	0.22	16.99	429.96	1.41	3.95	4.63	4.04	4.63	2.95	0.00	0.00	0.00	0.00	9.49	0.00	0.	0.00
14	17.782	28.31	0.22	16.96	430.00	1.42	3.92	4.67	4.01	4.67	3.00	0.00	0.00	0.00	0.00	9.42	0.00	0.	0.00
15	17.570	28.32	0.22	16.93	430.04	1.44	3.89	4.69	3.99	4.69	3.04	0.00	0.00	0.00	0.00	9.35	0.00	0.	0.00
16	17.358	28.33	0.22	16.91	430.07	1.45	3.87	4.72	3.96	4.72	3.08	0.00	0.00	0.00	0.00	9.28	0.00	0.	0.00
17	17.146	28.35	0.22	16.89	430.10	1.46	3.84	4.74	3.93	4.74	3.10	0.00	0.00	0.00	0.00	9.21	0.00	0.	0.00
18	16.934	28.36	0.22	16.87	430.13	1.47	3.82	4.75	3.91	4.75	3.12	0.00	0.00	0.00	0.00	9.14	0.00	0.	0.00
19	16.722	28.38	0.22	16.85	430.16	1.48	3.79	4.77	3.88	4.77	3.14	0.00	0.00	0.00	0.00	9.07	0.00	0.	0.00
20	16.510	28.39	0.22	16.83	430.18	1.49	3.77	4.78	3.86	4.78	3.15	0.00	0.00	0.00	0.00	9.00	0.00	0.	0.00
21	16.298	28.40	0.22	16.82	430.21	1.50	3.75	4.79	3.84	4.79	3.15	0.00	0.00	0.00	0.00	8.93	0.00	0.	0.00
22	16.086	28.42	0.22	16.80	430.23	1.51	3.73	4.79	3.82	4.79	3.15	0.00	0.00	0.00	0.00	8.86	0.00	0.	0.00
23	15.874	28.43	0.22	16.79	430.25	1.52	3.71	4.80	3.79	4.80	3.15	0.00	0.00	0.00	0.00	8.79	0.00	0.	0.00
24	15.662	28.45	0.22	16.77	430.27	1.54	3.69	4.81	3.77	4.81	3.15	0.00	0.00	0.00	0.00	8.72	0.00	0.	0.00
25	15.450	28.46	0.22	16.76	430.28	1.55	3.67	4.81	3.75	4.81	3.14	0.00	0.00	0.00	0.00	8.65	0.00	0.	0.00
26	15.238	28.47	0.22	16.75	430.30	1.56	3.65	4.81	3.73	4.81	3.13	0.00	0.00	0.00	0.00	8.58	0.00	0.	0.00
27	15.026	28.49	0.22	16.74	430.31	1.57	3.63	4.81	3.71	4.81	3.12	0.00	0.00	0.00	0.00	8.51	0.00	0.	0.00
28	14.814	28.50	0.22	16.73	430.33	1.58	3.61	4.82	3.69	4.82	3.11	0.00	0.00	0.00	0.00	8.44	0.00	0.	0.00
29	14.602	28.52	0.22	16.72	430.34	1.59	3.59	4.82	3.67	4.82	3.09	0.00	0.00	0.00	0.00	8.37	0.00	0.	0.00
30	14.390	28.53	0.22	16.71	430.36	1.60	3.57	4.82	3.65	4.82	3.08	0.00	0.00	0.00	0.00	8.30	0.00	0.	0.00

FINAL REPORT BT01 UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
REACH NO. 3 BT03 TO GLASS SHOP WEIR UPSTREAM OF THE WEIR # 3(SONIC WEIR

********** 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 MG/L
31	UPR RCH	0.04260	28.53	0.22	16.71	430.36	1.60	3.57	4.82	3.65	4.82	3.08	0.00	0.00	0.00	8.30	0.00	0.00
EACH	INCR	0.00131	28.84	0.19	12.80	381.20	1.71	3.52	3.89			1.27	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	14.39	14.16	0.04391	0.0	0.00690	0.39	0.36	17.68	1495.73	4154.80	6.36	0.00	0.000	0.000	0.007
32	14.16	13.92	0.04522	0.0	0.00710	0.38	0.36	17.68	1495.73	4154.80	6.36	0.00	0.000	0.000	0.007
33	13.92	13.69	0.04653	0.0	0.00731	0.37	0.36	17.68	1495.73	4154.80	6.36	0.00	0.000	0.000	0.007
34	13.69	13.45	0.04784	0.0	0.00752	0.36	0.36	17.68	1495.73	4154.80	6.36	0.00	0.000	0.000	0.008
35	13.45	13.22	0.04915	0.0	0.00772	0.35	0.36	17.68	1495.73	4154.80	6.36	0.00	0.000	0.000	0.008
36	13.22	12.98	0.05046	0.0	0.00793	0.34	0.36	17.68	1495.73	4154.80	6.36	0.00	0.000	0.000	0.008
37	12.98	12.75	0.05177	0.0	0.00813	0.33	0.36	17.68	1495.73	4154.80	6.36	0.00	0.000	0.000	0.008
38	12.75	12.51	0.05308	0.0	0.00834	0.33	0.36	17.68	1495.73	4154.80	6.36	0.00	0.000	0.000	0.008
39	12.51	12.28	0.05439	0.0	0.00855	0.32	0.36	17.68	1495.73	4154.80	6.36	0.00	0.000	0.000	0.009
40	12.28	12.04	0.05570	0.0	0.00875	0.31	0.36	17.68	1495.73	4154.80	6.36	0.00	0.000	0.000	0.009
TOT						3.50			14957.28	41548.00					
AVG					0.0078		0.36	17.68			6.36				
CUM						54.28									

********** 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	14.155	7.72	2.49	0.38	0.06	0.00	0.04	0.06	0.00	4.33	4.33	4.33	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	13.920	7.69	2.51	0.41	0.06	0.00	0.05	0.06	0.00	4.38	4.38	4.38	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	13.685	7.67	2.53	0.41	0.06	0.00	0.05	0.06	0.00	4.43	4.43	4.43	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	13.450	7.64	2.55	0.41	0.06	0.00	0.05	0.06	0.00	4.49	4.49	4.49	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	13.215	7.62	2.56	0.42	0.06	0.00	0.05	0.06	0.00	4.54	4.54	4.54	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	12.980	7.59	2.58	0.42	0.06	0.00	0.05	0.06	0.00	4.60	4.60	4.60	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	12.745	7.57	2.60	0.42	0.06	0.00	0.05	0.06	0.00	4.65	4.65	4.65	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	12.510	7.54	2.62	0.41	0.06	0.00	0.05	0.06	0.00	4.71	4.71	4.71	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

39	12.275	7.52	2.64	0.41	0.06	0.00	0.05	0.06	0.00	4.76	4.76	4.76	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	12.040	7.49	2.66	0.41	0.06	0.00	0.05	0.06	0.00	4.82	4.82	4.82	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			2.16	0.27	0.05	0.00	0.03	0.05	0.00	2.50			0.06	0.03	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 MG/L
31	14.155	28.72	0.22	16.59	428.89	1.90	3.53	4.69	3.61	4.69	2.92	0.00	0.00	0.00	0.00	8.05	0.00	0.	0.00
32	13.920	28.91	0.22	16.48	427.51	2.00	3.47	4.57	3.55	4.57	2.76	0.00	0.00	0.00	0.00	7.80	0.00	0.	0.00
33	13.685	29.10	0.21	16.38	426.20	2.04	3.42	4.46	3.50	4.46	2.61	0.00	0.00	0.00	0.00	7.55	0.00	0.	0.00
34	13.450	29.29	0.21	16.28	424.97	2.04	3.37	4.36	3.45	4.36	2.48	0.00	0.00	0.00	0.00	7.30	0.00	0.	0.00
35	13.215	29.48	0.21	16.19	423.80	2.02	3.33	4.26	3.40	4.26	2.36	0.00	0.00	0.00	0.00	7.05	0.00	0.	0.00
36	12.980	29.67	0.21	16.10	422.70	1.99	3.30	4.18	3.37	4.18	2.24	0.00	0.00	0.00	0.00	6.80	0.00	0.	0.00
37	12.745	29.86	0.21	16.02	421.65	1.96	3.27	4.10	3.34	4.10	2.14	0.00	0.00	0.00	0.00	6.55	0.00	0.	0.00
38	12.510	30.05	0.20	15.94	420.65	1.93	3.25	4.03	3.31	4.03	2.05	0.00	0.00	0.00	0.00	6.30	0.00	0.	0.00
39	12.275	30.24	0.20	15.86	419.70	1.90	3.24	3.96	3.30	3.96	1.97	0.00	0.00	0.00	0.00	6.05	0.00	0.	0.00
40	12.040	30.43	0.20	15.79	418.79	1.87	3.23	3.90	3.28	3.90	1.89	0.00	0.00	0.00	0.00	5.80	0.00	0.	0.00

FINAL REPORT BT01 UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
REACH NO. 4 GLASS SHOP WEIR TO COTEAU WEIR UPSTREAM OF THE WEIR # 3(SONIC WEIR

********** 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 MG/L
41	UPR RCH	0.05570	30.43	0.20	15.79	418.79	1.87	3.23	3.90	3.28	3.90	1.89	0.00	0.00	0.00	5.80	0.00	0.00
41	DAM	WEIR #1 Glass ADDS 0.00 MG/L DISSOLVED OXYGEN GIVING 1.87 MG/L D.O. FOR THE UPR RCH INPUT																
EACH	INCR	-0.00210																

********** 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
41	12.04	11.78	0.05360	0.0	0.00665	0.46	0.49	16.46	2121.20	4328.98	8.07	0.00	0.000	0.000	0.007
42	11.78	11.51	0.05150	0.0	0.00639	0.48	0.49	16.46	2121.20	4328.98	8.07	0.00	0.000	0.000	0.006
43	11.51	11.25	0.04941	0.0	0.00613	0.50	0.49	16.46	2121.20	4328.98	8.07	0.00	0.000	0.000	0.006
44	11.25	10.99	0.04731	0.0	0.00587	0.52	0.49	16.46	2121.20	4328.98	8.07	0.00	0.000	0.000	0.006
45	10.99	10.72	0.04521	0.0	0.00561	0.54	0.49	16.46	2121.20	4328.98	8.07	0.00	0.000	0.000	0.006
46	10.72	10.46	0.04311	0.0	0.00535	0.57	0.49	16.46	2121.20	4328.98	8.07	0.00	0.000	0.000	0.005
47	10.46	10.20	0.04101	0.0	0.00509	0.60	0.49	16.46	2121.20	4328.98	8.07	0.00	0.000	0.000	0.005
48	10.20	9.94	0.03892	0.0	0.00483	0.63	0.49	16.46	2121.20	4328.98	8.07	0.00	0.000	0.000	0.005
49	9.94	9.67	0.03682	0.0	0.00456	0.67	0.49	16.46	2121.20	4328.98	8.07	0.00	0.000	0.000	0.005
50	9.67	9.41	0.03472	0.0	0.00430	0.71	0.49	16.46	2121.20	4328.98	8.07	0.00	0.000	0.000	0.004
TOT						5.67			21212.00	43289.80					
AVG					0.0054		0.49	16.46			8.07				
CUM						59.95									

********** 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
41	11.777	7.51	1.87	0.48	0.06	0.00	0.06	0.06	0.00	2.68	2.68	2.68	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	11.514	7.52	1.86	0.48	0.06	0.00	0.06	0.06	0.00	2.67	2.67	2.67	0.16	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	11.251	7.53	1.85	0.48	0.06	0.00	0.06	0.06	0.00	2.65	2.65	2.65	0.16	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	10.988	7.55	1.84	0.48	0.06	0.00	0.06	0.06	0.00	2.63	2.63	2.63	0.16	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	10.725	7.56	1.82	0.47	0.06	0.00	0.06	0.06	0.00	2.61	2.61	2.61	0.16	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	10.462	7.57	1.81	0.47	0.06	0.00	0.06	0.06	0.00	2.60	2.60	2.60	0.16	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	10.199	7.59	1.80	0.47	0.06	0.00	0.06	0.06	0.00	2.58	2.58	2.58	0.16	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	9.936	7.60	1.79	0.47	0.06	0.00	0.06	0.06	0.00	2.56	2.56	2.56	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	9.673	7.62	1.77	0.46	0.06	0.00	0.06	0.06	0.00	2.55	2.55	2.55	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

50	9.410	7.63	1.76	0.46	0.06	0.00	0.06	0.06	0.00	2.53	2.53	2.53	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.51	0.30	0.05	0.00	0.04	0.05	0.00	1.40			0.10	0.03	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 MG/L
41	11.777	30.33	0.20	15.79	418.79	2.56	3.50	4.02	3.57	4.02	1.94	0.00	0.00	0.00	0.00	6.31	0.00	0.	0.00
42	11.514	30.22	0.20	15.79	418.79	2.91	3.74	4.15	3.81	4.15	1.99	0.00	0.00	0.00	0.00	6.82	0.00	0.	0.00
43	11.251	30.12	0.20	15.79	418.79	3.08	3.94	4.27	4.01	4.27	2.03	0.00	0.00	0.00	0.00	7.33	0.00	0.	0.00
44	10.988	30.02	0.20	15.79	418.79	3.15	4.10	4.39	4.18	4.39	2.07	0.00	0.00	0.00	0.00	7.84	0.00	0.	0.00
45	10.725	29.92	0.20	15.79	418.79	3.17	4.24	4.51	4.33	4.51	2.11	0.00	0.00	0.00	0.00	8.35	0.00	0.	0.00
46	10.462	29.81	0.19	15.79	418.79	3.17	4.36	4.63	4.45	4.63	2.14	0.00	0.00	0.00	0.00	8.86	0.00	0.	0.00
47	10.199	29.71	0.19	15.79	418.79	3.16	4.46	4.75	4.55	4.75	2.18	0.00	0.00	0.00	0.00	9.37	0.00	0.	0.00
48	9.936	29.61	0.19	15.79	418.79	3.14	4.55	4.86	4.64	4.86	2.22	0.00	0.00	0.00	0.00	9.88	0.00	0.	0.00
49	9.673	29.50	0.19	15.79	418.79	3.13	4.62	4.98	4.72	4.98	2.25	0.00	0.00	0.00	0.00	10.39	0.00	0.	0.00
50	9.410	29.40	0.19	15.79	418.79	3.11	4.68	5.09	4.79	5.09	2.29	0.00	0.00	0.00	0.00	10.90	0.00	0.	0.00

FINAL REPORT BT01 UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
REACH NO. 5 COTEAU WEIR TO SONIC WEIR UPSTREAM OF THE WEIR # 3(SONIC WEIR

********** 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 MG/L
51	UPR RCH	0.03472	29.40	0.19	15.79	418.79	3.11	4.68	5.09	4.79	5.09	2.29	0.00	0.00	0.00	10.90	0.00	0.00
51	DAM	WEIR #2 Coteau ADDS 0.08 MG/L DISSOLVED OXYGEN GIVING 3.19 MG/L D.O. FOR THE UPR RCH INPUT																
EACH	INCR	-0.00133																

********** 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
51	9.41	9.16	0.03339	0.0	0.00199	1.44	0.95	17.68	4165.41	4384.64	16.80	0.00	0.000	0.000	0.002
52	9.16	8.91	0.03206	0.0	0.00191	1.50	0.95	17.68	4165.41	4384.64	16.80	0.00	0.000	0.000	0.002
53	8.91	8.67	0.03073	0.0	0.00183	1.57	0.95	17.68	4165.41	4384.64	16.80	0.00	0.000	0.000	0.002
54	8.67	8.42	0.02940	0.0	0.00175	1.64	0.95	17.68	4165.41	4384.64	16.80	0.00	0.000	0.000	0.002
55	8.42	8.17	0.02807	0.0	0.00167	1.72	0.95	17.68	4165.41	4384.64	16.80	0.00	0.000	0.000	0.002
56	8.17	7.92	0.02673	0.0	0.00159	1.80	0.95	17.68	4165.41	4384.64	16.80	0.00	0.000	0.000	0.002
57	7.92	7.67	0.02540	0.0	0.00151	1.90	0.95	17.68	4165.41	4384.64	16.80	0.00	0.000	0.000	0.002
58	7.67	7.43	0.02407	0.0	0.00143	2.00	0.95	17.68	4165.41	4384.64	16.80	0.00	0.000	0.000	0.001
59	7.43	7.18	0.02274	0.0	0.00135	2.12	0.95	17.68	4165.41	4384.64	16.80	0.00	0.000	0.000	0.001
60	7.18	6.93	0.02141	0.0	0.00127	2.25	0.95	17.68	4165.41	4384.64	16.80	0.00	0.000	0.000	0.001
TOT						17.95			41654.07	43846.40					
AVG					0.0016		0.95	17.68			16.80				
CUM						77.90									

********** 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
51	9.162	7.64	0.88	0.26	0.06	0.00	0.03	0.06	0.00	5.32	5.32	5.32	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	8.914	7.64	0.88	0.17	0.06	0.00	0.02	0.06	0.00	5.30	5.30	5.30	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	8.666	7.65	0.87	0.14	0.06	0.00	0.02	0.06	0.00	5.28	5.28	5.28	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	8.418	7.66	0.87	0.14	0.06	0.00	0.02	0.06	0.00	5.27	5.27	5.27	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	8.170	7.66	0.87	0.14	0.06	0.00	0.02	0.06	0.00	5.25	5.25	5.25	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	7.922	7.67	0.87	0.14	0.06	0.00	0.02	0.06	0.00	5.23	5.23	5.23	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	7.674	7.68	0.87	0.15	0.06	0.00	0.02	0.06	0.00	5.22	5.22	5.22	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	7.426	7.68	0.87	0.15	0.06	0.00	0.02	0.06	0.00	5.20	5.20	5.20	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	7.178	7.69	0.87	0.15	0.06	0.00	0.02	0.06	0.00	5.18	5.18	5.18	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	6.930	7.70	0.87	0.16	0.06	0.00	0.02	0.06	0.00	5.17	5.17	5.17	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.74 0.25 0.05 0.00 0.03 0.05 0.00 2.95 0.10 0.03 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 MG/L
51	9.162	29.35	0.19	15.79	418.79	1.37	3.78	4.79	3.89	4.79	2.15	0.00	0.00	0.00	0.00	10.98	0.00	0.	0.00
52	8.914	29.30	0.19	15.79	418.79	0.88	3.46	4.59	3.57	4.59	2.09	0.00	0.00	0.00	0.00	11.06	0.00	0.	0.00
53	8.666	29.25	0.19	15.79	418.79	0.75	3.31	4.41	3.42	4.41	2.03	0.00	0.00	0.00	0.00	11.14	0.00	0.	0.00
54	8.418	29.20	0.19	15.79	418.79	0.73	3.20	4.26	3.31	4.26	1.98	0.00	0.00	0.00	0.00	11.22	0.00	0.	0.00
55	8.170	29.15	0.19	15.79	418.79	0.74	3.11	4.11	3.23	4.11	1.92	0.00	0.00	0.00	0.00	11.30	0.00	0.	0.00
56	7.922	29.10	0.18	15.79	418.79	0.76	3.03	3.97	3.15	3.97	1.87	0.00	0.00	0.00	0.00	11.38	0.00	0.	0.00
57	7.674	29.05	0.18	15.79	418.79	0.78	2.96	3.85	3.07	3.85	1.82	0.00	0.00	0.00	0.00	11.46	0.00	0.	0.00
58	7.426	29.00	0.18	15.79	418.79	0.80	2.88	3.73	3.00	3.73	1.77	0.00	0.00	0.00	0.00	11.54	0.00	0.	0.00
59	7.178	28.95	0.18	15.79	418.79	0.82	2.81	3.61	2.93	3.61	1.72	0.00	0.00	0.00	0.00	11.62	0.00	0.	0.00
60	6.930	28.90	0.18	15.79	418.79	0.84	2.75	3.51	2.87	3.51	1.67	0.00	0.00	0.00	0.00	11.70	0.00	0.	0.00

STREAM SUMMARY
BT01

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

TRAVEL TIME = 77.90 DAYS

MAXIMUM EFFLUENT = 0.00 PERCENT

FLOW	=	0.00190	TO	0.05570	m³/s
DISPERSION	=	0.0000	TO	0.0000	m²/s
VELOCITY	=	0.00029	TO	0.00875	m/s
DEPTH	=	0.36	TO	0.95	m
WIDTH	=	16.46	TO	17.68	m
BOD DECAY	=	0.01	TO	0.48	per day
NH3 DECAY	=	0.00	TO	0.00	per day

SOD	=	2.53	TO	6.26	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	0.87	TO	2.66	per day
BOD SETTLING	=	0.06	TO	0.07	per day
NBOD DECAY	=	0.00	TO	0.16	per day
NBOD SETTLING	=	0.03	TO	0.03	per day
TEMPERATURE	=	28.25	TO	31.67	deg C
DISSOLVED OXYGEN	=	0.07	TO	3.17	mg/L

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN  1 ON PARAMETER SET  1 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	28.02	0.01896	0.00140	0.280	16.46	0.669	0.005	0.919	54.01
2	BT02 & BT-03	18.63	14.39	4.24	7.53	0.04260	0.00651	0.259	17.68	1.504	0.021	0.850	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	2.45	0.05570	0.01111	0.252	17.68	1.967	0.036	0.827	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	3.97	0.03472	0.00767	0.343	16.46	1.226	0.025	1.125	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	12.57	0.02141	0.00228	0.665	17.68	0.756	0.007	2.182	58.01

```
.....BEGIN SENSITIVITY RUN  2 ON PARAMETER SET  1 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	52.03	0.01896	0.00076	0.520	16.46	0.669	0.002	1.706	54.01
2	BT02 & BT-03	18.63	14.39	4.24	13.99	0.04260	0.00351	0.481	17.68	1.504	0.012	1.578	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	4.54	0.05570	0.00598	0.468	17.68	1.967	0.020	1.536	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	7.37	0.03472	0.00413	0.637	16.46	1.226	0.014	2.090	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	23.34	0.02141	0.00123	1.235	17.68	0.756	0.004	4.052	58.01

```
     .....BEGIN SENSITIVITY RUN  3 ON PARAMETER SET  2 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	57.18	0.01327	0.00069	0.400	16.46	0.469	0.002	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	15.37	0.02982	0.00319	0.370	17.68	1.053	0.010	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	4.99	0.03899	0.00545	0.360	17.68	1.377	0.018	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	9.42	0.01801	0.00323	0.490	16.46	0.636	0.011	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	52.67	0.00470	0.00054	0.950	17.68	0.166	0.002	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN  4 ON PARAMETER SET  2 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	30.79	0.02465	0.00128	0.400	16.46	0.870	0.004	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	8.28	0.05538	0.00593	0.370	17.68	1.955	0.019	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	2.69	0.07241	0.01011	0.360	17.68	2.557	0.033	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	4.07	0.05143	0.00747	0.490	16.46	1.816	0.025	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	11.01	0.03812	0.00261	0.950	17.68	1.346	0.009	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN  5 ON PARAMETER SET  3 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING:  NEGATIVE CONCENTRATIONS SET TO ZERO FOR Dissolved Oxygen
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN  6 ON PARAMETER SET  3 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  19 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN  7 ON PARAMETER SET  4 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	57.18	0.01896	0.00069	0.400	23.51	0.669	0.002	1.312	77.15
2	BT02 & BT-03	18.63	14.39	4.24	15.37	0.04260	0.00319	0.370	25.26	1.504	0.010	1.214	82.87
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	4.99	0.05570	0.00545	0.360	25.26	1.967	0.018	1.181	82.87
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	8.09	0.03472	0.00376	0.490	23.51	1.226	0.012	1.608	77.15
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	25.64	0.02141	0.00112	0.950	25.26	0.756	0.004	3.117	82.87

```
.....BEGIN SENSITIVITY RUN  8 ON PARAMETER SET  4 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	30.79	0.01896	0.00128	0.400	12.66	0.669	0.004	1.312	41.54
2	BT02 & BT-03	18.63	14.39	4.24	8.28	0.04260	0.00593	0.370	13.60	1.504	0.019	1.214	44.62
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	2.69	0.05570	0.01011	0.360	13.60	1.967	0.033	1.181	44.62
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	4.36	0.03472	0.00698	0.490	12.66	1.226	0.023	1.608	41.54
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	13.81	0.02141	0.00208	0.950	13.60	0.756	0.007	3.117	44.62

```
     .....BEGIN SENSITIVITY RUN  9 ON PARAMETER SET  5 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 10 ON PARAMETER SET  5 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 11 ON PARAMETER SET  6 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 12 ON PARAMETER SET  6 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 13 ON PARAMETER SET  7 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 14 ON PARAMETER SET  7 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 15 ON PARAMETER SET  8 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 16 ON PARAMETER SET  8 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH	REACH NAME	BEGIN	ENDING	REACH	TRAVEL	FLOW AT	AVERAGE	AVG	AVG	FLOW AT	AVERAGE	AVG	AVG

NO.		DIST km	DIST km	LENGTH km	TIME days	EOR m3/s	VELO m/s	DEPTH m	WIDTH m	EOR cfs	VELO fps	DEPTH ft	WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

.....BEGIN SENSITIVITY RUN 17 ON PARAMETER SET 9 AND COLUMN 1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

.....BEGIN SENSITIVITY RUN 18 ON PARAMETER SET 9 AND COLUMN 2

```
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 19 ON PARAMETER SET 10 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST	ENDING DIST	REACH LENGTH	TRAVEL TIME	FLOW AT EOR	AVERAGE VELO	AVG DEPTH	AVG WIDTH	FLOW AT EOR	AVERAGE VELO	AVG DEPTH	AVG WIDTH

		km	km	km	days	m3/s	m/s	m	m	cfs	fps	ft	ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 20 ON PARAMETER SET 10 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 21 ON PARAMETER SET 11 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
```

```
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 22 ON PARAMETER SET 11 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft

1 BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2 BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3 BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4 GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 23 ON PARAMETER SET 12 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 24 ON PARAMETER SET 12 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
```

```
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 25 ON PARAMETER SET 13 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  19 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft

1 BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2 BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3 BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4 GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 26 ON PARAMETER SET 13 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING:  NEGATIVE CONCENTRATIONS SET TO ZERO FOR Dissolved Oxygen
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 27 ON PARAMETER SET 14 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
```

```
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  18 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 28 ON PARAMETER SET 14 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING:  NEGATIVE CONCENTRATIONS SET TO ZERO FOR Dissolved Oxygen
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft

1 BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2 BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3 BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4 GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 29 ON PARAMETER SET 15 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 30 ON PARAMETER SET 15 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
```

```
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 31 ON PARAMETER SET 16 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft

1 BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2 BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3 BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4 GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 32 ON PARAMETER SET 16 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 33 ON PARAMETER SET 17 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
```

```
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	57.18	0.01327	0.00069	0.400	16.46	0.469	0.002	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	15.37	0.02982	0.00319	0.370	17.68	1.053	0.010	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	4.99	0.03899	0.00545	0.360	17.68	1.377	0.018	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	9.42	0.01801	0.00323	0.490	16.46	0.636	0.011	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	52.67	0.00470	0.00054	0.950	17.68	0.166	0.002	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 34 ON PARAMETER SET 17 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	30.79	0.02465	0.00128	0.400	16.46	0.870	0.004	1.312	54.01

2 BT02 & BT-03	18.63	14.39	4.24	8.28	0.05538	0.00593	0.370	17.68	1.955	0.019	1.214	58.01
3 BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	2.69	0.07241	0.01011	0.360	17.68	2.557	0.033	1.181	58.01
4 GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	4.07	0.05143	0.00747	0.490	16.46	1.816	0.025	1.608	54.01
5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	11.01	0.03812	0.00261	0.950	17.68	1.346	0.009	3.117	58.01

.....BEGIN SENSITIVITY RUN 35 ON PARAMETER SET 18 AND COLUMN 1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.20	0.04101	0.00586	0.490	16.46	1.448	0.019	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	13.51	0.03170	0.00212	0.950	17.68	1.119	0.007	3.117	58.01

.....BEGIN SENSITIVITY RUN 36 ON PARAMETER SET 18 AND COLUMN 2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	6.27	0.02843	0.00485	0.490	16.46	1.004	0.016	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	27.51	0.01112	0.00104	0.950	17.68	0.393	0.003	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 37 ON PARAMETER SET 19 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01

3 BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4 GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 38 ON PARAMETER SET 19 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 39 ON PARAMETER SET 20 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 40 ON PARAMETER SET 20 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01

4 GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 41 ON PARAMETER SET 21 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 42 ON PARAMETER SET 21 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 43 ON PARAMETER SET 22 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01

5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 44 ON PARAMETER SET 22 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 45 ON PARAMETER SET 23 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04

UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 46 ON PARAMETER SET 23 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 47 ON PARAMETER SET 24 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 48 ON PARAMETER SET 24 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 49 ON PARAMETER SET 25 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 50 ON PARAMETER SET 25 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 51 ON PARAMETER SET 26 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 52 ON PARAMETER SET 26 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 53 ON PARAMETER SET 27 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 54 ON PARAMETER SET 27 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 55 ON PARAMETER SET 28 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 56 ON PARAMETER SET 28 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 57 ON PARAMETER SET 29 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 58 ON PARAMETER SET 29 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 59 ON PARAMETER SET 30 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 60 ON PARAMETER SET 30 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH	REACH NAME	BEGIN	ENDING	REACH	TRAVEL	FLOW AT	AVERAGE	AVG	AVG	FLOW AT	AVERAGE	AVG	AVG

NO.		DIST km	DIST km	LENGTH km	TIME days	EOR m3/s	VELO m/s	DEPTH m	WIDTH m	EOR cfs	VELO fps	DEPTH ft	WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 61 ON PARAMETER SET 31 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 62 ON PARAMETER SET 31 AND COLUMN  2
```

```
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 63 ON PARAMETER SET 32 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST	ENDING DIST	REACH LENGTH	TRAVEL TIME	FLOW AT EOR	AVERAGE VELO	AVG DEPTH	AVG WIDTH	FLOW AT EOR	AVERAGE VELO	AVG DEPTH	AVG WIDTH

		km	km	km	days	m3/s	m/s	m	m	cfs	fps	ft	ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 64 ON PARAMETER SET 32 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 65 ON PARAMETER SET 33 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
```

```
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 66 ON PARAMETER SET 33 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft

1 BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2 BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3 BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4 GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 67 ON PARAMETER SET 34 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 68 ON PARAMETER SET 34 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
```

```
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 69 ON PARAMETER SET 35 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft

1 BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2 BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3 BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4 GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 70 ON PARAMETER SET 35 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 71 ON PARAMETER SET 36 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
```

```
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 72 ON PARAMETER SET 36 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01

2 BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3 BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4 GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 73 ON PARAMETER SET 37 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 74 ON PARAMETER SET 37 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 75 ON PARAMETER SET 38 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01

3 BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4 GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 76 ON PARAMETER SET 38 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 77 ON PARAMETER SET 39 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 78 ON PARAMETER SET 39 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01

4 GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 79 ON PARAMETER SET 40 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 80 ON PARAMETER SET 40 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 81 ON PARAMETER SET 41 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01

5 COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 82 ON PARAMETER SET 41 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 83 ON PARAMETER SET 42 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04

UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 84 ON PARAMETER SET 42 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 85 ON PARAMETER SET 43 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 86 ON PARAMETER SET 43 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 87 ON PARAMETER SET 44 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 88 ON PARAMETER SET 44 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 89 ON PARAMETER SET 45 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 90 ON PARAMETER SET 45 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 91 ON PARAMETER SET 46 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  15 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 92 ON PARAMETER SET 46 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  13 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 93 ON PARAMETER SET 47 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 94 ON PARAMETER SET 47 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
     .....BEGIN SENSITIVITY RUN 95 ON PARAMETER SET 48 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

```
.....BEGIN SENSITIVITY RUN 96 ON PARAMETER SET 48 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

UPPER BAYOU TERREBONNE MODEL CALIBRATION MODEL 8/17/04
UPSTREAM OF THE WEIR # 3(SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BT01 & BT-02	22.03	18.63	3.40	40.02	0.01896	0.00098	0.400	16.46	0.669	0.003	1.312	54.01
2	BT02 & BT-03	18.63	14.39	4.24	10.76	0.04260	0.00456	0.370	17.68	1.504	0.015	1.214	58.01
3	BT03 TO GLASS SHOP WEIR	14.39	12.04	2.35	3.50	0.05570	0.00778	0.360	17.68	1.967	0.026	1.181	58.01
4	GLASS SHOP WEIR TO COTEAU WEIR	12.04	9.41	2.63	5.67	0.03472	0.00537	0.490	16.46	1.226	0.018	1.608	54.01
5	COTEAU WEIR TO SONIC WEIR	9.41	6.93	2.48	17.95	0.02141	0.00160	0.950	17.68	0.756	0.005	3.117	58.01

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

APPENDIX K2 – SENSITIVITY SUMMARY TABLE, GRAPHS, INPUT AND OUTPUT FILE (LOWER TERREBONNE MODEL)

LOWER TERREBONNE SENSITIVITY MODEL SUMMARY TABLE

SENSITIVITY ANALYSIS SUMMARY

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
WEIR #3 TO THE ICWW

Plot 1 Base Model Minimum DO = 1.42

Parameter	% Parameter Change	Min D.O.	% D.O. Change	% Parameter Change	Min D.O.	% D.O. Change
Stream Reaeration	-30	0.31	-78.3	30	1.6	12.8
Benthal Demand	-30	1.6	12.8	30	0.64	-54.8
Initial Temperature	-2	1.6	12.8	2	1.02	-27.9
Headwater DO	-30	1.28	-9.5	30	1.43	0.7
Stream Depth	-30	1.55	9.1	30	1.32	-7.1
CBOD Aerobic Decay Rate	-30	1.52	7	30	1.33	-6
Stream Velocity	-30	1.5	5.7	30	1.37	-3.8
Non-Point Source CBOD	-30	1.48	4.6	30	1.36	-4.5
Headwater CBOD	-30	1.47	4	30	1.35	-4.7
Incremental DO	-30	1.38	-2.6	30	1.45	2.5
CBOD2 Aerobic Decay Rate	-30	1.44	1.6	30	1.4	-1.5
Incremental CBOD	-30	1.44	1.6	30	1.39	-1.8
NBOD Decay Rate	-30	1.44	1.3	30	1.4	-1.2
Stream Baseflow	-30	1.4	-1.2	30	1.42	0.3
CBOD Settling Rate	-30	1.4	-1.2	30	1.43	1.1
Headwater CBOD2	-30	1.43	0.9	30	1.41	-0.9
Headwater NBOD	-30	1.43	0.7	30	1.41	-0.6
Incremental Inflow	-30	1.41	-0.7	30	1.43	0.7
Incremental CBOD2	-30	1.42	0.4	30	1.41	-0.4
Non-Point Source BOD2	-30	1.42	0.4	30	1.41	-0.4
Non-Point Source NBOD	-30	1.42	0.4	30	1.41	-0.4
Incremental NBOD	-30	1.42	0.3	30	1.41	-0.3
Incremental Outflow	-30	1.42	-0.2	30	1.42	0.2
Headwater Flow	-30	1.42	-0.2	30	1.41	-0.4
Initial Salinity	-30	1.42	0.1	30	1.42	-0.1
NBOD Settling Rate	-30	1.42	-0.1	30	1.42	0.1
CBOD2 Settling Rate	-30	1.42	0	30	1.42	0
Tidal Range	-30	1.42	0	30	1.42	0
Algae/Chlorophyll Ratio	-30	1.42	0	30	1.42	0
Initial Chorophyll a	-30	1.42	0	30	1.42	0
Incremental Temperature	-30	1.42	0	30	1.42	0
Incremental Chlorophyll a	-30	1.42	0	30	1.42	0
Stream Dispersion	-30	1.42	0	30	1.42	0
Headwater Temperature	-2	1.42	0	2	1.42	0
Headwater Chlorophyll a	-30	1.42	0	30	1.42	0
Wasteload Flow	-30	1.42	0	30	1.42	0
Wasteload Temperature	-30	1.42	0	30	1.42	0
Wasteload DO	-30	1.42	0	30	1.42	0
Wasteload CBOD	-30	1.42	0	30	1.42	0

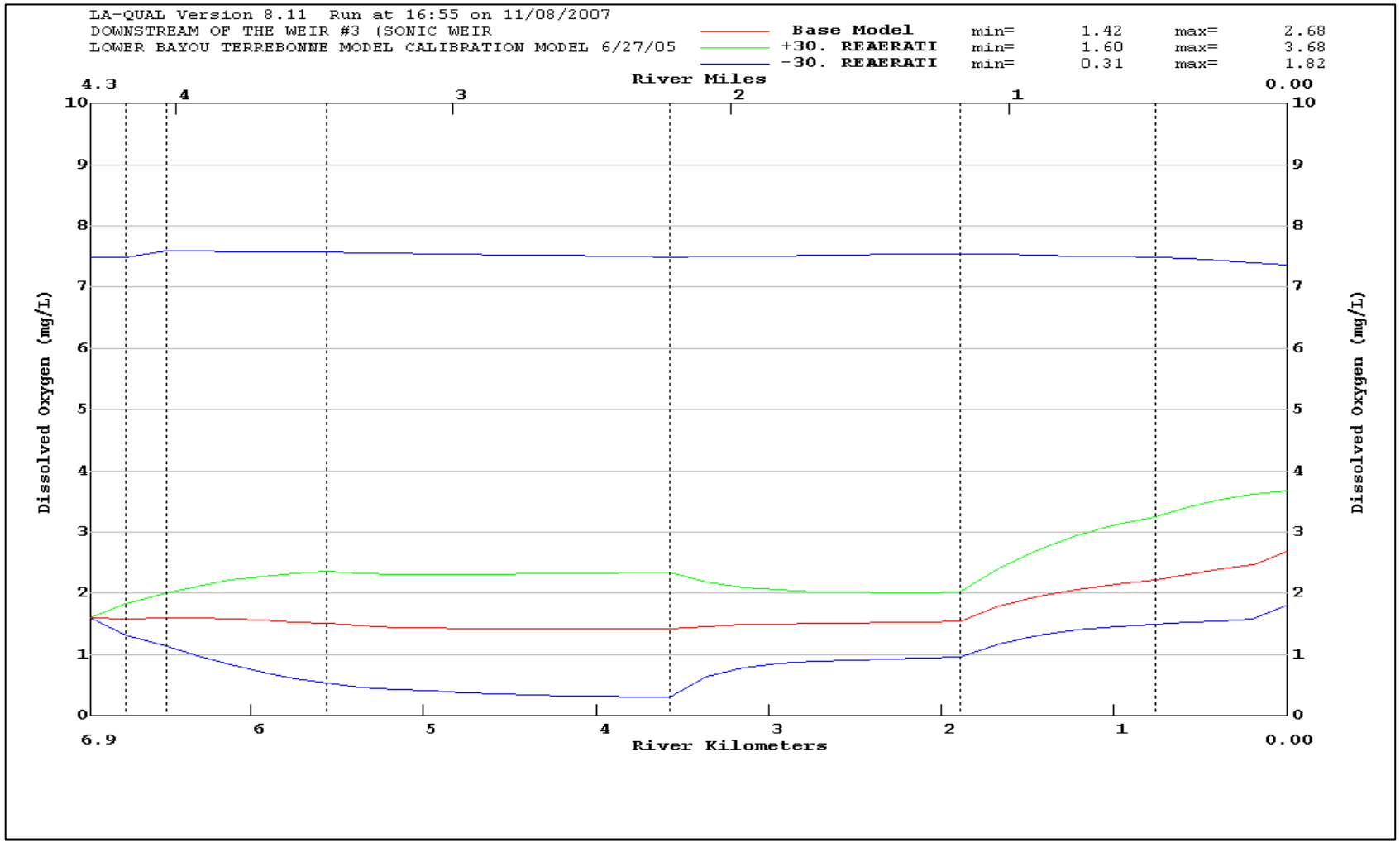
SENSITIVITY ANALYSIS SUMMARY

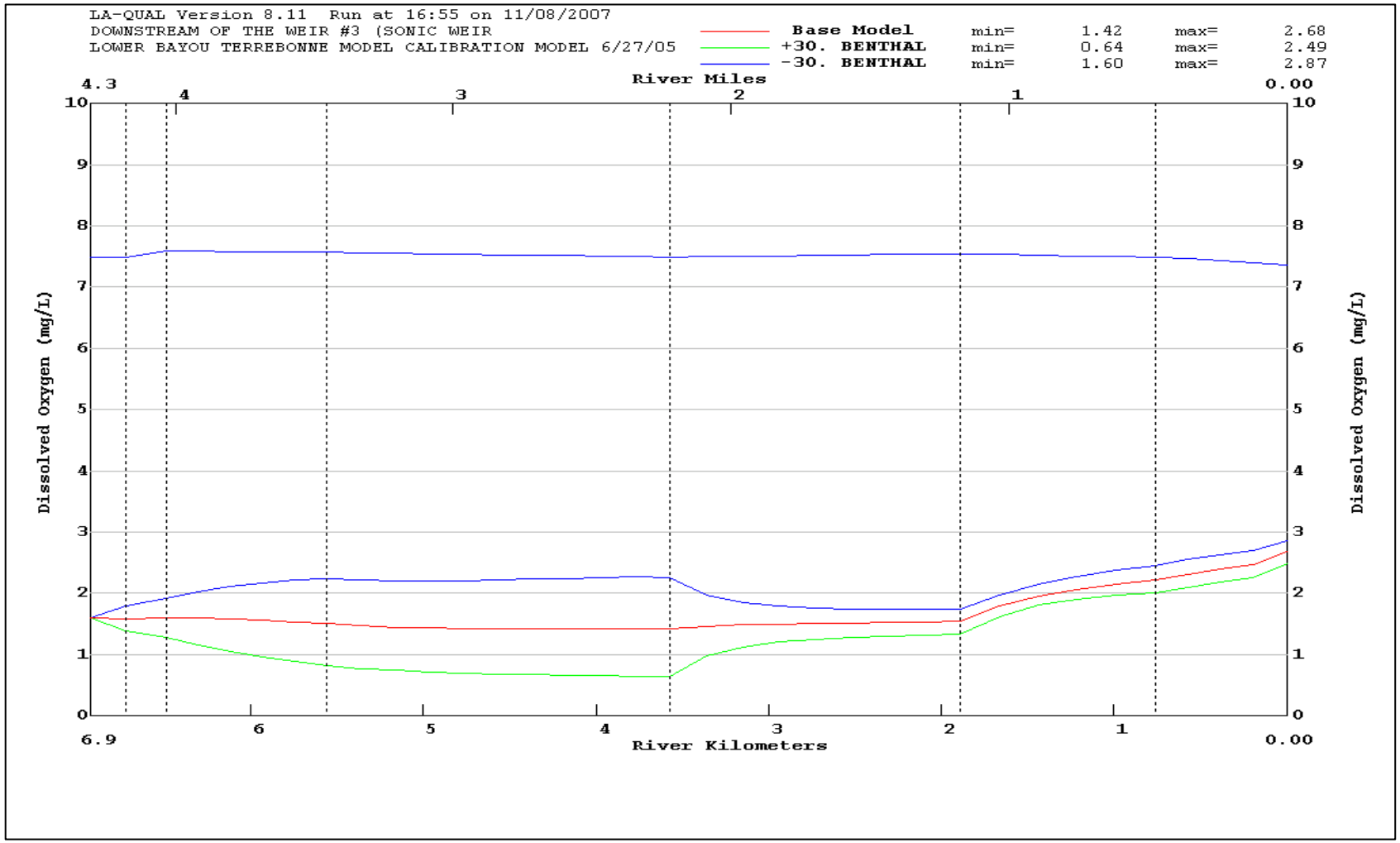
LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
WEIR #3 TO THE ICWW

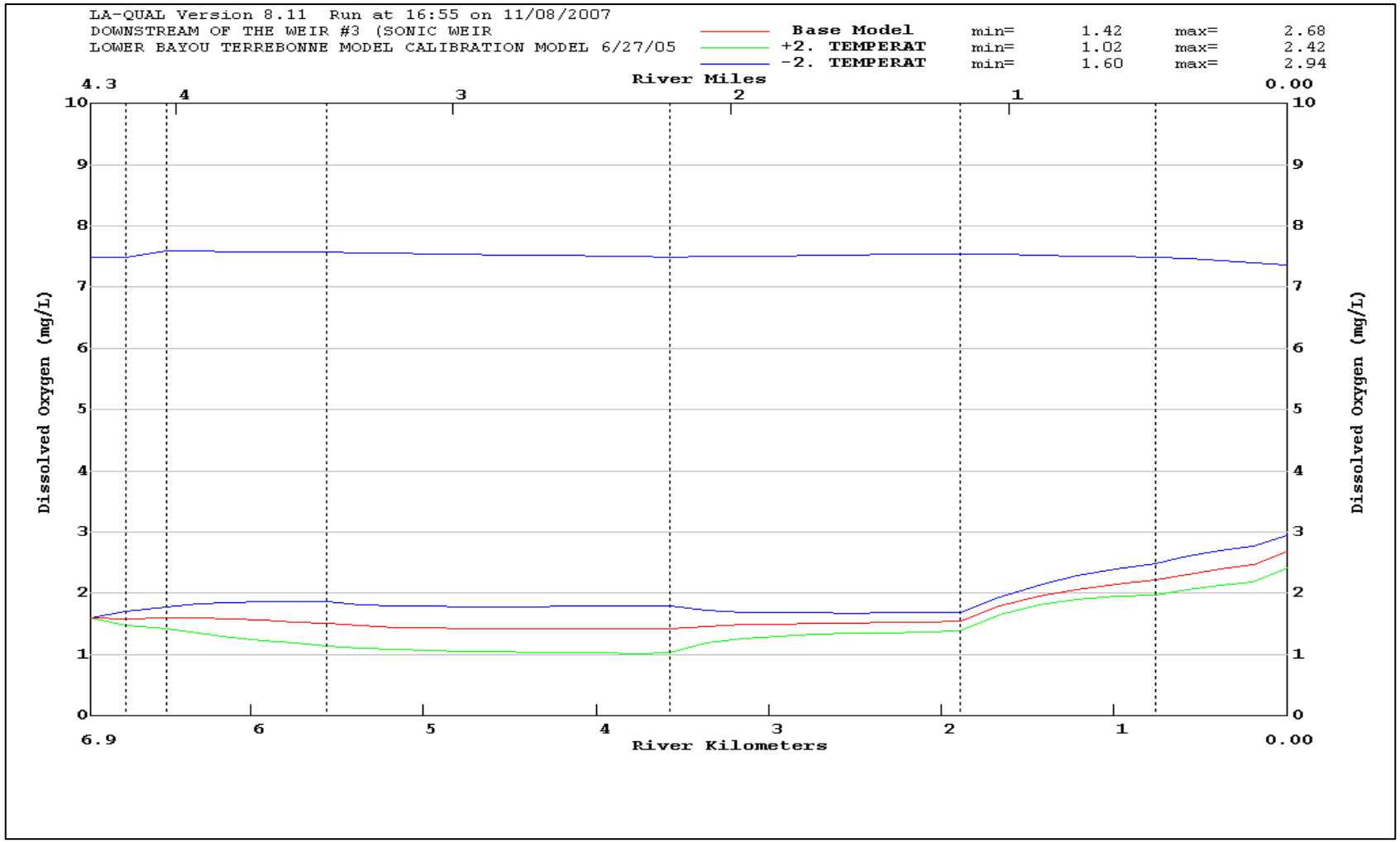
Plot 1 Base Model Minimum DO = 1.42

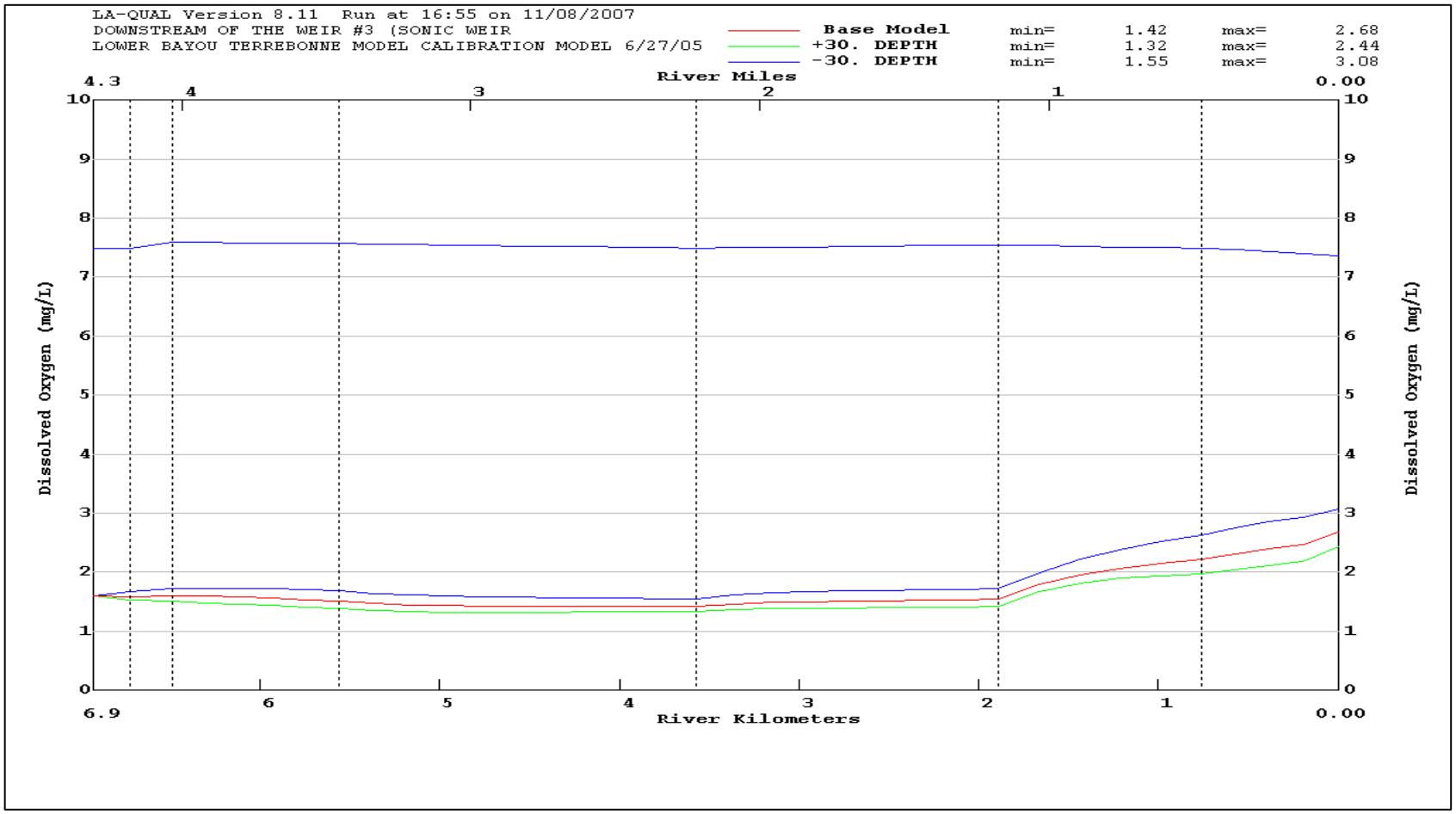
Parameter	% Parameter Change	Min D.O.	% D.O. Change	% Parameter Change	Min D.O.	% D.O. Change
Wasteload CBOD2	-30	1.42	0	30	1.42	0
Wasteload Chlorophyll a	-30	1.42	0	30	1.42	0
Wasteload NBOD	-30	1.42	0	30	1.42	0
Ocean Exchange Ratio	-30	1.42	0	30	1.42	0
Lower Boundary Temperature	-2	1.42	0	2	1.42	0
Lower Boundary DO	-30	1.42	0	30	1.42	0
Lower Boundary CBOD	-30	1.42	0	30	1.42	0
Lower Boundary CBOD2	-30	1.42	0	30	1.42	0
Lower Boundary Chlorophyll a	-30	1.42	0	30	1.42	0
Lower Boundary NBOD	-30	1.42	0	30	1.42	0

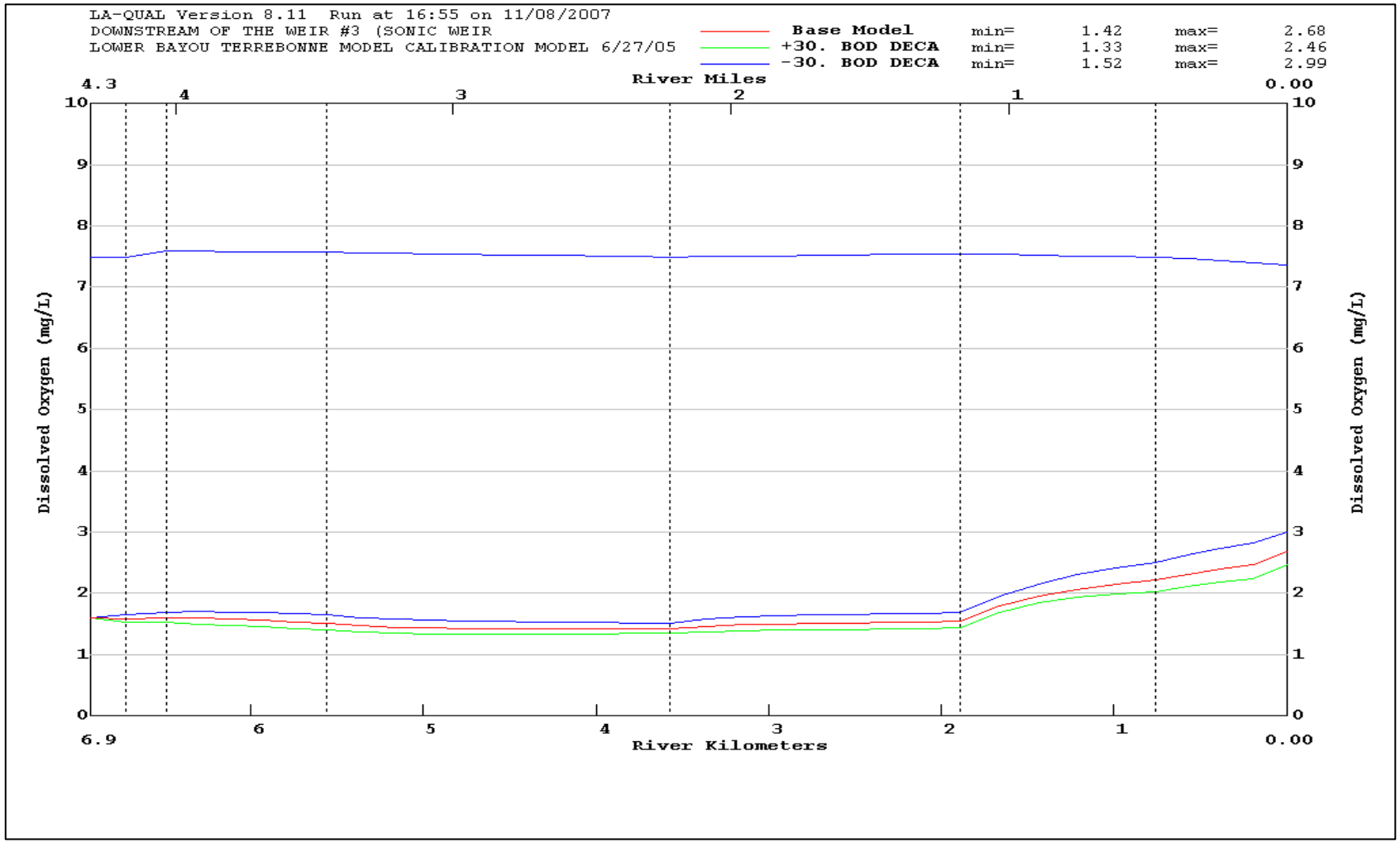
LOWER TERREBONNE SENSITIVITY MODEL GRAPHS




LA-QUAL Version 8.11 Run at 16:55 on 11/08/2007
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR
LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
Base Model min= 1.42 max= 2.68
+30. BENTHAL min= 0.64 max= 2.49
-30. BENTHAL min= 1.60 max= 2.87
River Miles
4.3
4
3
2
1
0.00
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
6.9
6
5
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 16:55 on 11/08/2007
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR
LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
Base Model min= 1.42 max= 2.68
+2. TEMPERAT min= 1.02 max= 2.42
-2. TEMPERAT min= 1.60 max= 2.94
River Miles
4.3
4
3
2
1
0.00
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
6.9
6
5
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 16:55 on 11/08/2007
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR
LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
Base Model min= 1.42 max= 2.68
+30. DEPTH min= 1.32 max= 2.44
-30. DEPTH min= 1.55 max= 3.08
River Miles
4.3
4
3
2
1
0.00
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
6.9
6
5
4
3
2
1
0.00
River Kilometers


LA-QUAL Version 8.11 Run at 16:55 on 11/08/2007
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR
LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
Base Model min= 1.42 max= 2.68
+30. BOD DECA min= 1.33 max= 2.46
-30. BOD DECA min= 1.52 max= 2.99
River Miles
4.3
4
3
2
1
0.00
Dissolved Oxygen (mg/L)
10
9
8
7
6
5
4
3
2
1
0
6.9
6
5
4
3
2
1
0.00
River Kilometers

LOWER TERREBONNE SENSITIVITY MODEL INPUT FILE

```
TITLE01      LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
TITLE02      DOWNSTREAM OF THE WEIR #3 (SONIC WEIR
!  Modeled CBOD1, CBOD2, and NBOD; Used constant widths and depths; estimated
tidal flow
CONTROL  YES METRIC UNITS
ENDATA01
MODOPTO1  NO TEMPERATURE
MODOPTO2  NO SALINITY
MODOPTO3 YES CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPTO4 YES CONSERVATIVE MATERIAL II = CONDUCTIVITY                   IN MG/L
MODOPTO5 YES DISSOLVED OXYGEN
MODOPTO6 YES BOD1
MODOPTO7 YES BOD2
MODOPTO8 YES NBOD OXYGEN DEMAND                                    IN MG/L
MODOPTO9  NO PHOSPHORUS
MODOPT10  NO CHLOROPHYLL A
MODOPT11  NO MACROPHYTES
MODOPT12  NO COLIFORM
MODOPT13  NO NONCONSERVATIVE MATERIAL = NBOD                       IN MG/L
ENDATA02
PROGRAM  KL MINIMUM                        =     0.7
PROGRAM  MAXIMUM ITERATION LIMIT           =   200.
PROGRAM  HYDRAULIC CALCULATION METHOD      =     2.
PROGRAM  TIDE HEIGHT                       =     0.13
PROGRAM  TIDAL PERIOD                      =     25.0
PROGRAM  DISPERSION                        =     2
PROGRAM  EFFECTIVE BOD DUE TO ALGAE        =     0.01
PROGRAM  ALGAE OXYGEN PRODUCTION RATE      =     0
PROGRAM  INHIBITION CONTROL VALUE          =     3
PROGRAM  OCEAN EXCHANGE RATIO              =     1.0
PROGRAM  SETTLING RATE UNITS               =     2
ENDATA03
ENDATA04
ENDATA05
ENDATA06
ENDATA07
!  Reach data entered on 9/19/04; Added a single-element headwater reach above
Weir #3 10/27/04
!  Removed the single element weir on 10/10/2007. Started model below the weir
REACH ID    1  BT Weir #3 to Bayou Cane                 6.93      6.72   0.2100
REACH ID    2  BC Bayou Cane to BT-08                   6.72      6.49   0.2300
REACH ID    3  BT BT-08 to BT-09                        6.49      5.56   0.1860
REACH ID    4  BT BT-09 to BT-10                        5.56      3.57   0.1990
REACH ID    5  BT BT-10 to BT-11                        3.57      1.89   0.2100
REACH ID    6  BT BT-11 to BT-12                        1.89      0.76   0.2260
REACH ID    7  BT BT-12 to ICWW                         0.76      0.00   0.1900
ENDATA08
! Data entered 9/22/04
!
!  Datatype 9 revised 9/24/2007; width and depth constants determined by the
!   downstream site in each reach
HYDR-1      1        0      0  14.32      0      0   0.76       0  0.03
HYDR-1      2        0      0  14.32      0      0   0.87       0  0.03
HYDR-1      3        0      0  14.32      0      0   0.71       0  0.03
HYDR-1      4        0      0  14.63      0      0   0.88       0  0.03
```

```
HYDR-1      5        0      0  18.90      0      0   1.66       0  0.03
HYDR-1      6        0      0  22.86      0      0   1.37       0  0.03
HYDR-1      7        0      0  22.86      0      0   1.37       0  0.03
ENDATA09
! In the process of adjusting the dispersion data 10/8/2007; This area is tidal;
!       set TRANGE and calibrated to dispersion and consrvatives (best fit)
!       by adjusting "a"; 10/12/07 - SET TRANGE values based on survey sites;
!       set "b", "c", "d" to 0.833, 0, 1 based on LDEQ standard practice;
!       calibrated "a" to measured dispersion values
!000000001111111111222222222233333333334444444444555555555566666666667777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789
!         RCH TRANGE       "a"       "b"       "c"       "d"
HYDR-2      1   0.69     18.00     0.833      0.00      1.00
HYDR-2      2   0.66     18.00     0.833      0.00      1.00
HYDR-2      3   0.62     18.00     0.833      0.00      1.00
HYDR-2      4   0.70     18.00     0.833      0.00      1.00
HYDR-2      5   0.77     18.00     0.833      0.00      1.00
HYDR-2      6   0.92     18.00     0.833      0.00      1.00
HYDR-2      7   0.92     18.00     0.833      0.00      1.00
ENDATA10
!   Data entered on 9/22/04
! Initial conditions temp, sal, DO and chl a revised 10/2/07; revised 10/15/07
!  to match site located at the upstream end of each reach
!000000001111111111222222222233333333334444444444555555555566666666667777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789
!                  TEMP     SAL      DO                              CHL A   MACRO
INITIAL     1     30.43    0.20    1.60    0.00   0.000    0.00    10.1     0.0
INITIAL     2     30.43    0.20    2.85    0.00   0.000    0.00    10.1     0.0
INITIAL     3     29.69    0.17    4.42    0.00   0.000    0.00    15.5     0.0
INITIAL     4     29.88    0.11    2.18    0.00   0.000    0.00    26.9     0.0
INITIAL     5     30.45    0.21    2.01    0.00   0.000    0.00    10.7     0.0
INITIAL     6     30.06    0.16    1.50    0.00   0.000    0.00     9.8     0.0
INITIAL     7     30.45    0.20    1.93    0.00   0.000    0.00    12.0     0.0
ENDATA11
```

```
!  Initial data entered 9/22/04
!  Decay rates revised on 9/25/07 to coincide with values obtained at site located at the downstream
!   end of each reach
!000000001111111111222222222233333333334444444444555555555566666666667777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!                  REAERATION             SOD BOD1DEC  SETT CON2SOD ANEARO BOD2DEC SETT CON2SOD ANEARO
COEF-1      1     19   0.0  0.0    0.0    2.0   0.31   0.05    0.0    0.0   0.03   0.05    0.0    0.0
COEF-1      2     19   0.0  0.0    0.0    2.0   0.24   0.05    0.0    0.0   0.03   0.05    0.0    0.0
COEF-1      3     19   0.0  0.0    0.0    2.2   0.22   0.05    0.0    0.0   0.03   0.05    0.0    0.0
COEF-1      4     19   0.0  0.0    0.0    2.2   0.20   0.05    0.0    0.0   0.03   0.05    0.0    0.0
COEF-1      5     19   0.0  0.0    0.0    0.8   0.41   0.05    0.0    0.0   0.03   0.05    0.0    0.0
COEF-1      6     19   0.0  0.0    0.0    0.1   0.31   0.05    0.0    0.0   0.03   0.05    0.0    0.0
COEF-1      7     19   0.0  0.0    0.0    0.0   0.31   0.05    0.0    0.0   0.03   0.05    0.0    0.0
ENDATA12
!   Data entered 9/22/04
!  Decay rates revised on 9/25/07 to coincide with values obtained at site located at the downstream
!   end of each reach
!000000001111111111222222222233333333334444444444555555555566666666667777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789 0
!                NBODDEC NBODSETT
COEF-2      1     0.09  0.025    0.0    0.0    0.0    0.0    0.0
COEF-2      2     0.12  0.025    0.0    0.0    0.0    0.0    0.0
COEF-2      3     0.09  0.025    0.0    0.0    0.0    0.0    0.0
COEF-2      4     0.12  0.025    0.0    0.0    0.0    0.0    0.0
COEF-2      5     0.17  0.025    0.0    0.0    0.0    0.0    0.0
COEF-2      6     0.16  0.025    0.0    0.0    0.0    0.0    0.0
COEF-2      7     0.10  0.025    0.0    0.0    0.0    0.0    0.0
ENDATA13
ENDATA14
ENDATA15
```

```
!  Incremental data input started on 10/2/2007; finito in 10/5/07
!  Flow based on TOT and distance for Run 4 dye data
!  WQ data for each reach set to the value obtained at the site
!      at the downstream end of each reach
!  Temp, sal, cond, and DO the continuous monitor data used if
available
!      then insitu data used
!  Salinity - calibrated to cont mon and insitu data
!  Chlorides - calibrated to Lab data used
!  Conductivity - calibrated to cont mon and insitu data
!  BOD - Lab data used
!  Data indicated residual influence of Bayou Cane, therefore WQ data
for
!  Reach 2 obtained from BC01
!000000001111111111222222222233333333334444444444555555555566666666667
777777778
!234567890123456789012345678901234567890123456789012345678901234567890
234567890
!          R#    OUTFLOW   INFLOW     TEMP      SAL CONSERVI CONSERV2
INCR-1      1             0.00926    30.43     0.20     11.6   373.13
INCR-1      2             0.01015    29.95     0.10     10.5   275.89
INCR-1      3   -0.02758
INCR-1      4             0.03339    30.45     0.21     50.8   362.93
INCR-1      5             0.22       30.06     0.16     12.8   334.30
INCR-1      6   -0.00210
INCR-1      7   -0.00141
ENDATA16
!000000001111111111222222222233333333334444444444555555555566666666667
777777778
!234567890123456789012345678901234567890123456789012345678901234567890
234567890
!          R#         DO     BOD1     NBOD      NH3      NO2     BOD2
INCR-2      1       2.85     4.62     2.08                       4.07
INCR-2      2       1.74     3.81     1.83                       4.42
INCR-2      3
INCR-2      4       2.01     3.73     2.66                       4.20
INCR-2      5       1.50     3.63     2.54                       4.07
INCR-2      6
INCR-2      7
ENDATA17
!000000001111111111222222222233333333334444444444555555555566666666667
777777778
!234567890123456789012345678901234567890123456789012345678901234567890
234567890
!          R#       PHOS   CHLORA     COLI      NCM
INCR-3      1               10.1
INCR-3      2                5.2
INCR-3      3
INCR-3      4               10.7
INCR-3      5                9.8
INCR-3      6
INCR-3      7
ENDATA18
!000000001111111111222222222233333333334444444444555555555566666666667
777777778
```

```
!234567890123456789012345678901234567890123456789012345678901234567890123456789
234567890
!                    BOD1     NBOD                          DO     BOD2
NONPOINT    1         2.0      1.3                                  1.5
NONPOINT    2         0.5      1.9                                  2.0
NONPOINT    3        25.0      1.6                                 12.0
NONPOINT    4        17.0     10.0                                  5.0
NONPOINT    5       100.0     14.0                                 18.0
NONPOINT    6        87.0     42.0                                 16.0
NONPOINT    7        60.0      2.0                                  0.0
ENDATA19
!  Data entered on 9/22/04; revised on 10/10/07; Headwater Q based on
dye study,
!  cross sectional data and linear interpolation;  Headwater WQ based
on site BT07
!  HW DO set equal to BT07min + 1 = 0.6 + 1 = 1.60 mg/L
!000000001111111111222222222233333333334444444444555555555566666666667777
777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789
234567890
HDWTR-1     1  BT01                   0  0.12890   30.43   0.200
11.6  373.13
ENDATA20
!000000001111111111222222222233333333334444444444555555555566666666667777
777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789
234567890
!                      DO     BOD1     NBOD                          BOD2
HDWTR-2     1       1.60     4.62     2.08      0.0      0.0     4.07
ENDATA21
!000000001111111111222222222233333333334444444444555555555566666666667777
777777778
!234567890123456789012345678901234567890123456789012345678901234567890123456789
234567890
!                            CHL A
HDWTR-3     1        0.0     10.1      0.0      0.0
ENDATA22
ENDATA23
ENDATA24
ENDATA25
ENDATA26
!  LBC data entered 9/19/04
LOWER BC TEMPERATURE                        =  31.46
LOWER BC SALINITY                           =   0.10
LOWER BC CONSERVATIVE MATERIAL I            =   18.5
LOWER BC CONSERVATIVE MATERIAL II           =  270.97
LOWER BC DISSOLVED OXYGEN                   =   3.67
LOWER BC BOD1                               =   4.21
LOWER BC BOD2                               =   3.45
LOWER BC PHOSPHORUS                         =   0.00
LOWER BC CHLOROPHYLL A                      =  22.1
LOWER BC COLIFORM                           =   0.00
LOWER BC NBOD                               =   2.73
ENDATA27
ENDATA28
SENSITIV DEPTH        -30     30
```

```
SENSITIV BASEFLOW     -30     30
SENSITIV REAERATI     -30     30
SENSITIV VELOCITY     -30     30
SENSITIV BOD DECA     -30     30
SENSITIV BOD SETT     -30     30
SENSITIV BOD2 DEC     -30     30
SENSITIV BOD2 SET     -30     30
SENSITIV TRANGE       -30     30
SENSITIV ARATIO       -30     30
SENSITIV NBOD DEC     -30     30
SENSITIV NBOD SET     -30     30
SENSITIV BENTHAL      -30     30
SENSITIV TEMPERAT      -2      2
SENSITIV SALINITY     -30     30
SENSITIV CHLOR A      -30     30
SENSITIV INC INFL     -30     30
SENSITIV INC OUTF     -30     30
SENSITIV INC TEMP     -30     30
SENSITIV INC DO       -30     30
SENSITIV INC BOD      -30     30
SENSITIV INC BOD2     -30     30
SENSITIV INC CHLO     -30     30
SENSITIV INC NBOD     -30     30
SENSITIV DISPERSI     -30     30
SENSITIV HDW FLOW     -30     30
SENSITIV HDW TEMP      -2      2
SENSITIV HDW DO       -30     30
SENSITIV HDW BOD      -30     30
SENSITIV HDW BOD2     -30     30
SENSITIV HDW CHLO     -30     30
SENSITIV HDW NBOD     -30     30
SENSITIV WSL FLOW     -30     30
SENSITIV WSL TEMP     -30     30
SENSITIV WSL DO       -30     30
SENSITIV WSL BOD      -30     30
SENSITIV WSL BOD2     -30     30
SENSITIV WSL CHLO     -30     30
SENSITIV WSL NBOD     -30     30
SENSITIV OXR          -30     30
SENSITIV LBC TEMP      -2      2
SENSITIV LBC DO       -30     30
SENSITIV LBC BOD      -30     30
SENSITIV LBC BOD2     -30     30
SENSITIV LBC CHLO     -30     30
SENSITIV LBC NBOD     -30     30
SENSITIV NPS BOD      -30     30
SENSITIV NPS BOD2     -30     30
SENSITIV NPS NBOD     -30     30
ENDATA29
NUMBER OF PLOTS = 1
NUMBER OF REACHES IN PLOT 1 = 7
PLOT RCH 1  2  3  4  5  6  7
ENDATA30
OVERLAY 1 LowerBTCalOverlay.txt
ENDATA31
```

LOWER TERREBONNE SENSITIVITY MODEL OUPTPUT FILE

```
LA-QUAL Version 8.11
Louisiana Department of Environmental Quality

Input file is C:\AA_DAILY WORKING FOLDER\AA_TRANSFER BTERR DATASET\LAQUAL CAL REVIEW_09182007\Rev Sensitivity\Based on
Calibration\LowBTerrCalSensi7R_incrQ.txt
Output produced at 15:32 on 10/31/2007

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

CARD TYPE       CONTROL TITLES

TITLE01         LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
TITLE02         DOWNSTREAM OF THE WEIR #3 (SONIC WEIR
CONTROL   YES   METRIC UNITS
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPTO1   NO   TEMPERATURE
MODOPTO2   NO   SALINITY
MODOPTO3  YES   CONSERVATIVE MATERIAL  I = CHLORIDES                  IN MG/L
MODOPTO4  YES   CONSERVATIVE MATERIAL II = CONDUCTIVITY                  IN MG/L
MODOPTO5  YES   DISSOLVED OXYGEN
MODOPTO6  YES   BOD1
MODOPTO7  YES   BOD2
MODOPTO8  YES   NBOD OXYGEN DEMAND                                    IN MG/L
MODOPTO9   NO   PHOSPHORUS
MODOPT10   NO   CHLOROPHYLL A
MODOPT11   NO   MACROPHYTES
MODOPT12   NO   COLIFORM
MODOPT13   NO   NONCONSERVATIVE MATERIAL = NBOD                       IN MG/L
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE
```

```
PROGRAM         KL MINIMUM                          =         0.70000 meters/day
PROGRAM         MAXIMUM ITERATION LIMIT             =       200.00000
PROGRAM         HYDRAULIC CALCULATION METHOD        =         2.00000 (widths and depths)
PROGRAM         TIDE HEIGHT                         =         0.13000 meters
PROGRAM         TIDAL PERIOD                        =        25.00000 hours
PROGRAM         DISPERSION                          =         2.00000 (values entered as a function of D,Q,Vtidal)
PROGRAM         EFFECTIVE BOD DUE TO ALGAE          =         0.01000 mg/L BOD per ug/L chl a
PROGRAM         ALGAE OXYGEN PRODUCTION RATE        =         0.00000 mg O/ug chl a/day
PROGRAM         INHIBITION CONTROL VALUE            =         3.00000 (inhibit all rates but SOD)
PROGRAM         OCEAN EXCHANGE RATIO                =         1.00000
PROGRAM         SETTLING RATE UNITS                 =         2.00000 (values entered as per 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   BT  Weir #3 to Bayou Cane                6.93  TO    6.72   0.2100     0.21       1        1      1
REACH ID      2   BC  Bayou Cane to BT-08                  6.72  TO    6.49   0.2300     0.23       1        2      2
REACH ID      3   BT  BT-08 to BT-09                       6.49  TO    5.56   0.1860     0.93       5        3      7
REACH ID      4   BT  BT-09 to BT-10                       5.56  TO    3.57   0.1990     1.99      10        8     17
REACH ID      5   BT  BT-10 to BT-11                       3.57  TO    1.89   0.2100     1.68       8       18     25
REACH ID      6   BT  BT-11 to BT-12                       1.89  TO    0.76   0.2260     1.13       5       26     30
REACH ID      7   BT  BT-12 to ICWW                        0.76  TO    0.00   0.1900     0.76       4       31     34
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   BT       0.000       0.000      14.320       0.000       0.000       0.760     0.00000   0.030
HYDR-1        2   BC       0.000       0.000      14.320       0.000       0.000       0.870     0.00000   0.030
HYDR-1        3   BT       0.000       0.000      14.320       0.000       0.000       0.710     0.00000   0.030
HYDR-1        4   BT       0.000       0.000      14.630       0.000       0.000       0.880     0.00000   0.030
HYDR-1        5   BT       0.000       0.000      18.900       0.000       0.000       1.660     0.00000   0.030
HYDR-1        6   BT       0.000       0.000      22.860       0.000       0.000       1.370     0.00000   0.030
HYDR-1        7   BT       0.000       0.000      22.860       0.000       0.000       1.370     0.00000   0.030
ENDATA09

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

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

HYDR          1   BT      0.69       18.000          0.833          0.000          1.000
HYDR          2   BC      0.66       18.000          0.833          0.000          1.000
HYDR          3   BT      0.62       18.000          0.833          0.000          1.000
HYDR          4   BT      0.70       18.000          0.833          0.000          1.000
HYDR          5   BT      0.77       18.000          0.833          0.000          1.000
HYDR          6   BT      0.92       18.000          0.833          0.000          1.000
HYDR          7   BT      0.92       18.000          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   BT       30.43      0.20      1.60      0.00      0.00      0.00     10.10      0.00
INITIAL          2   BC       30.43      0.20      2.85      0.00      0.00      0.00     10.10      0.00
INITIAL          3   BT       29.69      0.17      4.42      0.00      0.00      0.00     15.50      0.00
INITIAL          4   BT       29.88      0.11      2.18      0.00      0.00      0.00     26.90      0.00
INITIAL          5   BT       30.45      0.21      2.01      0.00      0.00      0.00     10.70      0.00
INITIAL          6   BT       30.06      0.16      1.50      0.00      0.00      0.00      9.80      0.00
INITIAL          7   BT       30.45      0.20      1.93      0.00      0.00      0.00     12.00      0.00
ENDATA11
```

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$

CARD TYPE	RCH NUM	RCH ID	K2 OPT	K2 "A"	K2 "B"	K2 "C"	BKGRND SOD g/m²/d	BOD DECAY per day	BOD SETT m/d	BOD CONV TO SOD	ANAER BOD2 DECAY per day	BOD2 DECAY per day	BOD2 SETT m/d	BOD2 CONV TO SOD	ANAER BOD2 DECAY per day
COEF-1	1	BT	19 OWENS <1.8 F	0.000	0.000	0.000	2.000	0.310	0.050	0.000	0.000	0.030	0.050	0.000	0.000
COEF-1	2	BC	19 OWENS <1.8 F	0.000	0.000	0.000	2.000	0.240	0.050	0.000	0.000	0.030	0.050	0.000	0.000
COEF-1	3	BT	19 OWENS <1.8 F	0.000	0.000	0.000	2.200	0.220	0.050	0.000	0.000	0.030	0.050	0.000	0.000
COEF-1	4	BT	19 OWENS <1.8 F	0.000	0.000	0.000	2.200	0.200	0.050	0.000	0.000	0.030	0.050	0.000	0.000
COEF-1	5	BT	19 OWENS <1.8 F	0.000	0.000	0.000	0.800	0.410	0.050	0.000	0.000	0.030	0.050	0.000	0.000
COEF-1	6	BT	19 OWENS <1.8 F	0.000	0.000	0.000	0.100	0.310	0.050	0.000	0.000	0.030	0.050	0.000	0.000
COEF-1	7	BT	19 OWENS <1.8 F	0.000	0.000	0.000	0.000	0.310	0.050	0.000	0.000	0.030	0.050	0.000	0.000

ENDATA12

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

CARD TYPE	REACH	ID	NBOD DECA	NBOD SETT	ORGN CONV TO NH3 SRCE	NH3 DECA	NH3 SRCE	PHOS SRCE	DENIT RATE
COEF-2	1	BT	0.090	0.025	0.000	0.000	0.000	0.000	0.000
COEF-2	2	BC	0.120	0.025	0.000	0.000	0.000	0.000	0.000
COEF-2	3	BT	0.090	0.025	0.000	0.000	0.000	0.000	0.000
COEF-2	4	BT	0.120	0.025	0.000	0.000	0.000	0.000	0.000
COEF-2	5	BT	0.170	0.025	0.000	0.000	0.000	0.000	0.000
COEF-2	6	BT	0.160	0.025	0.000	0.000	0.000	0.000	0.000
COEF-2	7	BT	0.100	0.025	0.000	0.000	0.000	0.000	0.000

ENDATA13

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

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

ENDATA14

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

CARD TYPE	REACH	ID	COLIFORM DIE-OFF	NCM DECAY	NCM SETT	NCM CONV 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    BT       0.00000     0.00926     30.43      0.20     11.60    373.13   0.04410   0.00000
INCR-1           2    BC       0.00000     0.01015     29.95      0.10     10.50    275.89   0.04413   0.00000
INCR-1           3    BT      -0.02758     0.00000      0.00      0.00      0.00      0.00   0.00000  -0.02966
INCR-1           4    BT       0.00000     0.03339     30.45      0.21     50.80    362.93   0.01678   0.00000
INCR-1           5    BT       0.00000     0.22000     30.06      0.16     12.80    334.30   0.13095   0.00000
INCR-1           6    BT      -0.00210     0.00000      0.00      0.00      0.00      0.00   0.00000  -0.00186
INCR-1           7    BT      -0.00141     0.00000      0.00      0.00      0.00      0.00   0.00000  -0.00186
ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD      NBOD                          BOD#2

INCR-2           1    BT        2.85      4.62      2.08      0.00      0.00      4.07
INCR-2           2    BC        1.74      3.81      1.83      0.00      0.00      4.42
INCR-2           3    BT        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2           4    BT        2.01      3.73      2.66      0.00      0.00      4.20
INCR-2           5    BT        1.50      3.63      2.54      0.00      0.00      4.07
INCR-2           6    BT        0.00      0.00      0.00      0.00      0.00      0.00
INCR-2           7    BT        0.00      0.00      0.00      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    BT        0.00     10.10      0.00      0.00
INCR-3           2    BC        0.00      5.20      0.00      0.00
INCR-3           3    BT        0.00      0.00      0.00      0.00
INCR-3           4    BT        0.00     10.70      0.00      0.00
INCR-3           5    BT        0.00      9.80      0.00      0.00
INCR-3           6    BT        0.00      0.00      0.00      0.00
INCR-3           7    BT        0.00      0.00      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    BT        2.00      1.30      0.00      0.00      0.00      1.50
NONPOINT         2    BC        0.50      1.90      0.00      0.00      0.00      2.00
NONPOINT         3    BT       25.00      1.60      0.00      0.00      0.00     12.00
NONPOINT         4    BT       17.00     10.00      0.00      0.00      0.00      5.00
NONPOINT         5    BT      100.00     14.00      0.00      0.00      0.00     18.00
NONPOINT         6    BT       87.00     42.00      0.00      0.00      0.00     16.00
NONPOINT         7    BT       60.00      2.00      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   IN MG/L

HDWTR-1          1      BT01                    0   0.12890    4.552   30.43     0.20    11.600   373.130   0.00
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      BT01                      1.60      4.62      2.08      0.00      0.00      4.07
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      BT01                       0.00     10.10      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   IN 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                       =     31.460     deg C
LOWER BC     SALINITY                          =      0.100     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =     18.500     MG/L
LOWER BC     CONSERVATIVE MATERIAL II          =    270.970      IN MG/L
LOWER BC     DISSOLVED OXYGEN                  =      3.670     mg/L
LOWER BC     BOD1                              =      4.210     mg/L
LOWER BC     BOD2                              =      3.450     mg/L
LOWER BC     PHOSPHORUS                        =      0.000     mg/L
LOWER BC     CHLOROPHYLL A                     =     22.100     µg/L
LOWER BC     COLIFORM                          =      0.000     #/100 mL
LOWER BC     NBOD                              =      2.730     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	DEPTH	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	BASEFLOW	-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
SENSITIV	VELOCITY	-30.0	30.0	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	BOD2 DEC	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	BOD2 SET	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	TRANGE	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	ARATIO	-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	TEMPERAT	-2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	SALINITY	-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	INC INFL	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC OUTF	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC TEMP	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC DO	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC BOD	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC BOD2	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC CHLO	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	INC NBOD	-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	HDW FLOW	-30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	HDW TEMP	-2.0	2.0	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 BOD2     -30.0      30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         HDW CHLO     -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         WSL FLOW     -30.0      30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL TEMP     -30.0      30.0       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 BOD2     -30.0      30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         WSL CHLO     -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         OXR          -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 BOD2     -30.0      30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         LBC CHLO     -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
SENSITIV         NPS BOD      -30.0      30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NPS BOD2     -30.0      30.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         NPS 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 =   7
PLOT RCH  1  2  3  4  5  6  7
ENDATA30

$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 LowerBTCalOverlay.txt
ENDATA31
```

```
.....NO ERRORS DETECTED IN INPUT DATA
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
.....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 21
```

FINAL REPORT BT01 LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
REACH NO. 1 Weir #3 to Bayou Cane DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I MG/L	CM-II IN 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 MG/L
1	HDWTR	0.12890	30.43	0.20	11.60	373.13	1.60	4.52	4.07	4.62	4.07	2.08	0.00	0.00	0.00	10.10	0.00	0.00
EACH	INCR	0.00926	30.43	0.20	11.60	373.13	2.85	4.62	4.07			2.08	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	6.93	6.72	0.13816	0.0	0.01269	0.19	0.76	14.32	2285.47	3007.20	10.88	269.75	0.001	0.008	0.013
TOT						0.19			2285.47	3007.20					
AVG					0.0127		0.76	14.32			10.88				
CUM						0.19									

********** 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	6.720	7.49	1.12	0.40	0.06	0.00	0.04	0.06	0.00	3.86	3.86	3.86	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.92	0.31	0.05	0.00	0.03	0.05	0.00	2.00			0.09	0.03	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 IN 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 MG/L
1	6.720	30.43	0.20	11.60	373.10	1.59	4.31	4.12	4.41	4.12	2.15	0.00	0.00	0.00	0.00	10.10	0.00	0.	0.00

FINAL REPORT BT01 LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
REACH NO. 2 Bayou Cane to BT-08 DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I MG/L	CM-II IN 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 MG/L
2	UPR RCH	0.13816	30.43	0.20	11.60	373.10	1.59	4.31	4.12	4.41	4.12	2.15	0.00	0.00	0.00	10.10	0.00	0.00
EACH	INCR	0.01015	29.95	0.10	10.50	275.89	1.74	3.81	4.42			1.83	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
2	6.72	6.49	0.14831	0.0	0.01190	0.22	0.87	14.32	2865.43	3293.60	12.46	552.34	0.001	0.016	0.012
TOT						0.22			2865.43	3293.60					
AVG					0.0119		0.87	14.32			12.46				
CUM						0.42									

********** 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
2	6.490	7.59	0.96	0.30	0.06	0.00	0.04	0.06	0.00	3.68	3.68	3.68	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.80	0.24	0.05	0.00	0.03	0.05	0.00	2.00			0.12	0.03	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 IN 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 MG/L
2	6.490	29.69	0.17	11.52	366.48	1.60	3.99	4.20	4.15	4.20	2.23	0.00	0.00	0.00	0.00	15.50	0.00	0.	0.00

FINAL REPORT BT01 LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
REACH NO. 3 BT-08 to BT-09 DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I MG/L	CM-II IN 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 MG/L
3	UPR RCH	0.14831	29.69	0.17	11.52	366.48	1.60	3.99	4.20	4.15	4.20	2.23	0.00	0.00	0.00	15.50	0.00	0.00
EACH	INCR	-0.00552																

********** 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
3	6.49	6.30	0.14279	0.0	0.01404	0.15	0.71	14.32	1891.10	2663.52	10.17	767.02	0.002	0.023	0.014
4	6.30	6.12	0.13728	0.0	0.01350	0.16	0.71	14.32	1891.10	2663.52	10.17	981.70	0.002	0.029	0.014

5	6.12	5.93	0.13176	0.0	0.01296	0.17	0.71	14.32	1891.10	2663.52	10.17	1196.38	0.003	0.035	0.013
6	5.93	5.75	0.12625	0.0	0.01242	0.17	0.71	14.32	1891.10	2663.52	10.17	1411.06	0.003	0.042	0.012
7	5.75	5.56	0.12073	0.0	0.01187	0.18	0.71	14.32	1891.10	2663.52	10.17	1625.74	0.004	0.048	0.012
TOT						0.83			9455.50	13317.60					
AVG					0.0129		0.71	14.32			10.17				
CUM						1.25									

********** 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
3	6.304	7.59	1.18	0.27	0.06	0.00	0.04	0.06	0.00	4.06	4.06	4.06	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	6.118	7.58	1.18	0.27	0.06	0.00	0.04	0.06	0.00	4.07	4.07	4.07	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	5.932	7.58	1.18	0.27	0.06	0.00	0.04	0.06	0.00	4.08	4.08	4.08	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	5.746	7.57	1.18	0.26	0.06	0.00	0.04	0.06	0.00	4.09	4.09	4.09	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	5.560	7.57	1.18	0.26	0.06	0.00	0.04	0.06	0.00	4.10	4.10	4.10	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.99	0.22	0.05	0.00	0.03	0.05	0.00	2.20			0.09	0.03	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 IN 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 MG/L
3	6.304	29.73	0.16	11.52	366.48	1.59	4.18	4.32	4.35	4.32	2.22	0.00	0.00	0.00	0.00	17.78	0.00	0.	0.00
4	6.118	29.77	0.15	11.52	366.48	1.58	4.36	4.45	4.56	4.45	2.22	0.00	0.00	0.00	0.00	20.06	0.00	0.	0.00
5	5.932	29.80	0.13	11.52	366.48	1.56	4.54	4.58	4.76	4.58	2.22	0.00	0.00	0.00	0.00	22.34	0.00	0.	0.00
6	5.746	29.84	0.12	11.53	366.48	1.53	4.72	4.71	4.97	4.71	2.22	0.00	0.00	0.00	0.00	24.62	0.00	0.	0.00
7	5.560	29.88	0.11	11.55	366.47	1.51	4.90	4.84	5.17	4.84	2.22	0.00	0.00	0.00	0.00	26.90	0.00	0.	0.00

FINAL REPORT BT01 LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
REACH NO. 4 BT-09 to BT-10 DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I MG/L	CM-II IN 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 MG/L
8	UPR RCH	0.12073	29.88	0.11	11.55	366.47	1.51	4.90	4.84	5.17	4.84	2.22	0.00	0.00	0.00	26.90	0.00	0.00
EACH	INCR	0.00334	30.45	0.21	50.80	362.93	2.01	3.73	4.20			2.66	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

8	5.56	5.36	0.12407	0.0	0.00964	0.24	0.88	14.63	2562.01	2911.37	12.87	1890.67	0.003	0.053	0.010
9	5.36	5.16	0.12741	0.0	0.00990	0.23	0.88	14.63	2562.01	2911.37	12.87	2155.60	0.004	0.060	0.010
10	5.16	4.96	0.13075	0.0	0.01016	0.23	0.88	14.63	2562.01	2911.37	12.87	2420.54	0.004	0.068	0.010
11	4.96	4.76	0.13409	0.0	0.01041	0.22	0.88	14.63	2562.01	2911.37	12.87	2685.47	0.005	0.075	0.010
12	4.76	4.57	0.13743	0.0	0.01067	0.22	0.88	14.63	2562.01	2911.37	12.87	2950.41	0.005	0.082	0.011
13	4.57	4.37	0.14076	0.0	0.01093	0.21	0.88	14.63	2562.01	2911.37	12.87	3215.34	0.006	0.090	0.011
14	4.37	4.17	0.14410	0.0	0.01119	0.21	0.88	14.63	2562.01	2911.37	12.87	3480.28	0.006	0.097	0.011
15	4.17	3.97	0.14744	0.0	0.01145	0.20	0.88	14.63	2562.01	2911.37	12.87	3745.21	0.006	0.105	0.011
16	3.97	3.77	0.15078	0.0	0.01171	0.20	0.88	14.63	2562.01	2911.37	12.87	4010.15	0.007	0.112	0.012
17	3.77	3.57	0.15412	0.0	0.01197	0.19	0.88	14.63	2562.01	2911.37	12.87	4275.08	0.007	0.119	0.012
TOT						2.14			25620.06	29113.70					
AVG					0.0108		0.88	14.63			12.87				
CUM						3.39									

********** 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
8	5.361	7.56	0.96	0.23	0.06	0.00	0.03	0.06	0.00	4.11	4.11	4.11	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	5.162	7.55	0.96	0.23	0.06	0.00	0.03	0.06	0.00	4.13	4.13	4.13	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	4.963	7.55	0.96	0.23	0.06	0.00	0.03	0.06	0.00	4.14	4.14	4.14	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	4.764	7.54	0.96	0.23	0.06	0.00	0.03	0.06	0.00	4.16	4.16	4.16	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	4.565	7.53	0.96	0.23	0.06	0.00	0.03	0.06	0.00	4.17	4.17	4.17	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	4.366	7.52	0.96	0.23	0.06	0.00	0.03	0.06	0.00	4.19	4.19	4.19	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	4.167	7.51	0.96	0.23	0.06	0.00	0.03	0.06	0.00	4.20	4.20	4.20	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	3.968	7.51	0.96	0.23	0.06	0.00	0.03	0.06	0.00	4.22	4.22	4.22	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	3.769	7.50	0.96	0.23	0.06	0.00	0.03	0.06	0.00	4.23	4.23	4.23	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	3.570	7.49	0.96	0.23	0.06	0.00	0.03	0.06	0.00	4.25	4.25	4.25	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.80	0.20	0.05	0.00	0.03	0.05	0.00	2.20			0.12	0.03	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 IN 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 MG/L
8	5.361	29.94	0.12	12.61	366.38	1.47	4.69	4.76	4.95	4.76	2.28	0.00	0.00	0.00	0.00	25.28	0.00	0.	0.00
9	5.162	29.99	0.13	13.61	366.29	1.45	4.52	4.69	4.75	4.69	2.34	0.00	0.00	0.00	0.00	23.66	0.00	0.	0.00
10	4.963	30.05	0.14	14.56	366.20	1.43	4.36	4.62	4.58	4.62	2.39	0.00	0.00	0.00	0.00	22.04	0.00	0.	0.00
11	4.764	30.11	0.15	15.47	366.12	1.43	4.22	4.55	4.42	4.55	2.44	0.00	0.00	0.00	0.00	20.42	0.00	0.	0.00
12	4.565	30.17	0.16	16.33	366.04	1.42	4.10	4.49	4.28	4.49	2.48	0.00	0.00	0.00	0.00	18.80	0.00	0.	0.00
13	4.366	30.22	0.17	17.15	365.97	1.42	3.98	4.43	4.16	4.43	2.53	0.00	0.00	0.00	0.00	17.18	0.00	0.	0.00
14	4.167	30.28	0.18	17.93	365.90	1.42	3.88	4.38	4.04	4.38	2.57	0.00	0.00	0.00	0.00	15.56	0.00	0.	0.00
15	3.968	30.34	0.19	18.67	365.83	1.42	3.79	4.33	3.93	4.33	2.61	0.00	0.00	0.00	0.00	13.94	0.00	0.	0.00
16	3.769	30.39	0.20	19.38	365.75	1.42	3.71	4.28	3.83	4.28	2.64	0.00	0.00	0.00	0.00	12.32	0.00	0.	0.00
17	3.570	30.45	0.21	19.96	365.38	1.42	3.63	4.24	3.74	4.24	2.67	0.00	0.00	0.00	0.00	10.70	0.00	0.	0.00

FINAL REPORT BT01 LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
REACH NO. 5 BT-10 to BT-11 DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I MG/L	CM-II IN 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 MG/L
18	UPR RCH	0.15412	30.45	0.21	19.96	365.38	1.42	3.63	4.24	3.74	4.24	2.67	0.00	0.00	0.00	10.70	0.00	0.00
EACH	INCR	0.02750	30.06	0.16	12.80	334.30	1.50	3.63	4.07			2.54	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
18	3.57	3.36	0.18162	0.0	0.00579	0.42	1.66	18.90	6588.54	3969.00	31.37	4672.38	0.003	0.091	0.006
19	3.36	3.15	0.20912	0.0	0.00667	0.36	1.66	18.90	6588.54	3969.00	31.37	5069.67	0.004	0.099	0.007
20	3.15	2.94	0.23662	0.0	0.00754	0.32	1.66	18.90	6588.54	3969.00	31.37	5466.97	0.004	0.106	0.008
21	2.94	2.73	0.26412	0.0	0.00842	0.29	1.66	18.90	6588.54	3969.00	31.37	5864.27	0.004	0.114	0.008
22	2.73	2.52	0.29162	0.0	0.00929	0.26	1.66	18.90	6588.54	3969.00	31.37	6261.57	0.004	0.122	0.009
23	2.52	2.31	0.31912	0.0	0.01017	0.24	1.66	18.90	6588.54	3969.00	31.37	6658.86	0.005	0.129	0.010
24	2.31	2.10	0.34662	0.0	0.01105	0.22	1.66	18.90	6588.54	3969.00	31.37	7056.16	0.005	0.137	0.011
25	2.10	1.89	0.37412	0.0	0.01192	0.20	1.66	18.90	6588.54	3969.00	31.37	7453.46	0.005	0.145	0.012
TOT						2.32			52708.32	31752.00					
AVG					0.0084		1.66	18.90			31.37				
CUM						5.71									

********** 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
18	3.360	7.50	0.51	0.48	0.06	0.00	0.04	0.06	0.00	1.54	1.54	1.54	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	3.150	7.50	0.51	0.49	0.06	0.00	0.04	0.06	0.00	1.54	1.54	1.54	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	2.940	7.51	0.51	0.49	0.06	0.00	0.04	0.06	0.00	1.53	1.53	1.53	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	2.730	7.52	0.51	0.49	0.06	0.00	0.04	0.06	0.00	1.53	1.53	1.53	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	2.520	7.52	0.51	0.50	0.06	0.00	0.04	0.06	0.00	1.52	1.52	1.52	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	2.310	7.53	0.51	0.50	0.06	0.00	0.04	0.06	0.00	1.52	1.52	1.52	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	2.100	7.54	0.51	0.50	0.06	0.00	0.04	0.06	0.00	1.51	1.51	1.51	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	1.890	7.54	0.51	0.50	0.06	0.00	0.04	0.06	0.00	1.51	1.51	1.51	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.42	0.41	0.05	0.00	0.03	0.05	0.00	0.80			0.17	0.03	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 IN 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 MG/L
18	3.360	30.40	0.20	18.88	360.68	1.46	3.60	4.18	3.71	4.18	2.65	0.00	0.00	0.00	0.00	10.59	0.00	0.	0.00

19	3.150	30.35	0.20	18.09	357.25	1.48	3.58	4.14	3.69	4.14	2.62	0.00	0.00	0.00	0.00	10.48	0.00	0.	0.00
20	2.940	30.30	0.19	17.48	354.61	1.50	3.56	4.11	3.66	4.11	2.60	0.00	0.00	0.00	0.00	10.36	0.00	0.	0.00
21	2.730	30.26	0.19	16.99	352.51	1.51	3.55	4.09	3.65	4.09	2.59	0.00	0.00	0.00	0.00	10.25	0.00	0.	0.00
22	2.520	30.21	0.18	16.60	350.81	1.52	3.53	4.07	3.63	4.07	2.58	0.00	0.00	0.00	0.00	10.14	0.00	0.	0.00
23	2.310	30.16	0.17	16.28	349.39	1.52	3.52	4.05	3.62	4.05	2.57	0.00	0.00	0.00	0.00	10.02	0.00	0.	0.00
24	2.100	30.11	0.17	16.00	348.21	1.53	3.52	4.04	3.61	4.04	2.56	0.00	0.00	0.00	0.00	9.91	0.00	0.	0.00
25	1.890	30.06	0.16	15.78	347.24	1.54	3.51	4.03	3.61	4.03	2.56	0.00	0.00	0.00	0.00	9.80	0.00	0.	0.00

FINAL REPORT BT01 LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
REACH NO. 6 BT-11 to BT-12 DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I MG/L	CM-II IN 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 MG/L
26	UPR RCH	0.37412	30.06	0.16	15.78	347.24	1.54	3.51	4.03	3.61	4.03	2.56	0.00	0.00	0.00	9.80	0.00	0.00
EACH	INCR	-0.00042																

********** 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
26	1.89	1.66	0.37370	0.0	0.01193	0.22	1.37	22.86	7077.91	5166.36	31.32	8071.35	0.006	0.134	0.012
27	1.66	1.44	0.37328	0.0	0.01192	0.22	1.37	22.86	7077.91	5166.36	31.32	8689.25	0.006	0.144	0.012
28	1.44	1.21	0.37286	0.0	0.01191	0.22	1.37	22.86	7077.91	5166.36	31.32	9307.15	0.007	0.155	0.012
29	1.21	0.99	0.37244	0.0	0.01189	0.22	1.37	22.86	7077.91	5166.36	31.32	9925.04	0.007	0.165	0.012
30	0.99	0.76	0.37202	0.0	0.01188	0.22	1.37	22.86	7077.91	5166.36	31.32	10542.94	0.007	0.175	0.012
TOT						1.10			35389.57	25831.80					
AVG					0.0119		1.37	22.86			31.32				
CUM						6.81									

********** 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
26	1.664	7.53	0.62	0.44	0.06	0.00	0.04	0.06	0.00	0.19	0.19	0.19	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	1.438	7.52	0.62	0.48	0.06	0.00	0.05	0.06	0.00	0.19	0.19	0.19	0.20	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	1.212	7.51	0.62	0.50	0.06	0.00	0.05	0.06	0.00	0.19	0.19	0.19	0.22	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.986	7.50	0.62	0.50	0.06	0.00	0.05	0.06	0.00	0.19	0.19	0.19	0.22	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.760	7.49	0.62	0.50	0.06	0.00	0.05	0.06	0.00	0.19	0.19	0.19	0.23	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.51	0.31	0.05	0.00	0.03	0.05	0.00	0.10			0.16	0.03	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 IN 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 MG/L
26	1.664	30.14	0.17	15.78	347.24	1.80	3.65	4.04	3.75	4.04	2.71	0.00	0.00	0.00	0.00	10.24	0.00	0.	0.00
27	1.438	30.22	0.18	15.78	347.24	1.95	3.74	4.04	3.84	4.04	2.82	0.00	0.00	0.00	0.00	10.68	0.00	0.	0.00
28	1.212	30.29	0.18	15.78	347.24	2.07	3.81	4.04	3.92	4.04	2.92	0.00	0.00	0.00	0.00	11.12	0.00	0.	0.00
29	0.986	30.37	0.19	15.78	347.24	2.15	3.87	4.04	3.99	4.04	3.01	0.00	0.00	0.00	0.00	11.56	0.00	0.	0.00
30	0.760	30.45	0.20	15.78	347.24	2.21	3.92	4.03	4.04	4.03	3.09	0.00	0.00	0.00	0.00	12.00	0.00	0.	0.00

FINAL REPORT BT01 LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
REACH NO. 7 BT-12 to ICWW DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I MG/L	CM-II IN 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 MG/L
31	UPR RCH	0.37202	30.45	0.20	15.78	347.24	2.21	3.92	4.03	4.04	4.03	3.09	0.00	0.00	0.00	12.00	0.00	0.00
EACH	INCR	-0.00035																

********** 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	0.76	0.57	0.37167	0.0	0.01187	0.19	1.37	22.86	5950.46	4343.40	31.32	11062.41	0.008	0.184	0.012
32	0.57	0.38	0.37131	0.0	0.01186	0.19	1.37	22.86	5950.46	4343.40	31.32	11581.88	0.008	0.192	0.012
33	0.38	0.19	0.37096	0.0	0.01184	0.19	1.37	22.86	5950.46	4343.40	31.32	12101.35	0.009	0.201	0.012
34	0.19	0.00	0.37061	0.0	0.01183	0.19	1.37	22.86	5950.46	4343.40	31.32	12620.82	0.009	0.210	0.012
TOT						0.74			23801.83	17373.60					
AVG					0.0119		1.37	22.86			31.32				
CUM						7.55									

********** 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	0.570	7.46	0.62	0.51	0.06	0.00	0.05	0.06	0.00	0.00	0.00	0.00	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	0.380	7.43	0.62	0.51	0.06	0.00	0.05	0.06	0.00	0.00	0.00	0.00	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	0.190	7.40	0.63	0.52	0.07	0.00	0.05	0.07	0.00	0.00	0.00	0.00	0.16	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	0.000	7.37	0.63	0.52	0.07	0.00	0.05	0.07	0.00	0.00	0.00	0.00	0.17	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.51	0.31	0.05	0.00	0.03	0.05	0.00	0.00			0.10	0.03	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 IN 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 MG/L
31	0.570	30.70	0.17	15.78	347.23	2.31	3.97	3.95	4.12	3.95	3.00	0.00	0.00	0.00	0.00	14.52	0.00	0.	0.00
32	0.380	30.95	0.15	15.78	347.16	2.40	4.01	3.87	4.18	3.87	2.92	0.00	0.00	0.00	0.00	17.05	0.00	0.	0.00
33	0.190	31.21	0.12	15.82	346.24	2.47	4.04	3.78	4.23	3.78	2.83	0.00	0.00	0.00	0.00	19.58	0.00	0.	0.00
34	0.000	31.46	0.10	16.21	335.27	2.68	4.05	3.67	4.27	3.67	2.75	0.00	0.00	0.00	0.00	22.10	0.00	0.	0.00

STREAM SUMMARY
BT01

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

TRAVEL TIME = 7.55 DAYS

MAXIMUM EFFLUENT = 0.00 PERCENT

FLOW	=	0.12073	TO	0.37412	m³/s
DISPERSION	=	0.0079	TO	0.2095	m²/s
VELOCITY	=	0.00579	TO	0.01404	m/s
DEPTH	=	0.71	TO	1.66	m
WIDTH	=	14.32	TO	22.86	m
BOD DECAY	=	0.23	TO	0.52	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.00	TO	4.25	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	0.51	TO	1.18	per day
BOD SETTLING	=	0.06	TO	0.07	per day
NBOD DECAY	=	0.04	TO	0.23	per day
NBOD SETTLING	=	0.03	TO	0.03	per day
TEMPERATURE	=	29.69	TO	31.46	deg C
DISSOLVED OXYGEN	=	1.42	TO	2.68	mg/L

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 1 ON PARAMETER SET 1 AND COLUMN 1

```
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  12 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.13	0.13816	0.01814	0.532	14.32	4.878	0.060	1.745	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.16	0.14831	0.01701	0.609	14.32	5.237	0.056	1.998	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.58	0.12073	0.01845	0.497	14.32	4.263	0.061	1.631	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	1.50	0.15412	0.01536	0.616	14.63	5.442	0.050	2.021	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	1.62	0.37412	0.01197	1.162	18.90	13.210	0.039	3.813	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	0.77	0.37202	0.01701	0.959	22.86	13.136	0.056	3.146	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.52	0.37061	0.01693	0.959	22.86	13.086	0.056	3.146	75.00

```
     .....BEGIN SENSITIVITY RUN  2 ON PARAMETER SET  1 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.25	0.13816	0.00977	0.988	14.32	4.878	0.032	3.242	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.29	0.14831	0.00916	1.131	14.32	5.237	0.030	3.711	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	1.08	0.12073	0.00993	0.923	14.32	4.263	0.033	3.028	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.78	0.15412	0.00827	1.144	14.63	5.442	0.027	3.753	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	3.02	0.37412	0.00645	2.158	18.90	13.210	0.021	7.080	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.43	0.37202	0.00916	1.781	22.86	13.136	0.030	5.843	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.96	0.37061	0.00912	1.781	22.86	13.086	0.030	5.843	75.00

```
     .....BEGIN SENSITIVITY RUN  3 ON PARAMETER SET  2 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
```

.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.27	0.09671	0.00889	0.760	14.32	3.415	0.029	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.32	0.10382	0.00833	0.870	14.32	3.666	0.027	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	1.26	0.07624	0.00851	0.710	14.32	2.692	0.028	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	3.35	0.09961	0.00688	0.880	14.63	3.517	0.023	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	3.48	0.25361	0.00559	1.660	18.90	8.955	0.018	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.62	0.25151	0.00806	1.370	22.86	8.881	0.026	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	1.10	0.25010	0.00800	1.370	22.86	8.831	0.026	4.495	75.00

.....BEGIN SENSITIVITY RUN 4 ON PARAMETER SET 2 AND COLUMN 2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.15	0.17961	0.01650	0.760	14.32	6.342	0.054	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.17	0.19280	0.01548	0.870	14.32	6.808	0.051	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.62	0.16522	0.01730	0.710	14.32	5.834	0.057	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	1.58	0.20863	0.01462	0.880	14.63	7.367	0.048	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	1.74	0.49463	0.01118	1.660	18.90	17.465	0.037	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	0.83	0.49253	0.01575	1.370	22.86	17.391	0.052	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.56	0.49112	0.01570	1.370	22.86	17.341	0.052	4.495	75.00

.....BEGIN SENSITIVITY RUN 5 ON PARAMETER SET 3 AND COLUMN 1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 14 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 6 ON PARAMETER SET 3 AND COLUMN 2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 12 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 7 ON PARAMETER SET 4 AND COLUMN 1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 12 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.27	0.13816	0.00889	0.760	20.46	4.878	0.029	2.494	67.12
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.32	0.14831	0.00833	0.870	20.46	5.237	0.027	2.854	67.12
3	BT-08 to BT-09	6.49	5.56	0.93	1.19	0.12073	0.00904	0.710	20.46	4.263	0.030	2.330	67.12
4	BT-09 to BT-10	5.56	3.57	1.99	3.06	0.15412	0.00753	0.880	20.90	5.442	0.025	2.887	68.57
5	BT-10 to BT-11	3.57	1.89	1.68	3.31	0.37412	0.00587	1.660	27.00	13.210	0.019	5.446	88.59
6	BT-11 to BT-12	1.89	0.76	1.13	1.57	0.37202	0.00833	1.370	32.66	13.136	0.027	4.495	107.15
7	BT-12 to ICWW	0.76	0.00	0.76	1.06	0.37061	0.00830	1.370	32.66	13.086	0.027	4.495	107.15

```
.....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
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.15	0.13816	0.01650	0.760	11.02	4.878	0.054	2.494	36.14
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.17	0.14831	0.01548	0.870	11.02	5.237	0.051	2.854	36.14
3	BT-08 to BT-09	6.49	5.56	0.93	0.64	0.12073	0.01679	0.710	11.02	4.263	0.055	2.330	36.14
4	BT-09 to BT-10	5.56	3.57	1.99	1.65	0.15412	0.01398	0.880	11.25	5.442	0.046	2.887	36.92
5	BT-10 to BT-11	3.57	1.89	1.68	1.78	0.37412	0.01090	1.660	14.54	13.210	0.036	5.446	47.70
6	BT-11 to BT-12	1.89	0.76	1.13	0.85	0.37202	0.01548	1.370	17.58	13.136	0.051	4.495	57.70
7	BT-12 to ICWW	0.76	0.00	0.76	0.57	0.37061	0.01541	1.370	17.58	13.086	0.051	4.495	57.70

```
.....BEGIN SENSITIVITY RUN  9 ON PARAMETER SET  5 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH	REACH NAME	BEGIN	ENDING	REACH	TRAVEL	FLOW AT	AVERAGE	AVG	AVG	FLOW AT	AVERAGE	AVG	AVG

NO.	DIST km	DIST km	LENGTH km	TIME days	EOR m3/s	VELO m/s	DEPTH m	WIDTH m	EOR cfs	VELO fps	DEPTH ft	WIDTH ft
1 Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2 Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3 BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 10 ON PARAMETER SET  5 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 11 ON PARAMETER SET  6 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  16 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft

1 Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2 Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3 BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 12 ON PARAMETER SET  6 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 13 ON PARAMETER SET  7 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98

4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 14 ON PARAMETER SET  7 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 15 ON PARAMETER SET  8 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00

7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 16 ON PARAMETER SET  8 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....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
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 18 ON PARAMETER SET  9 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 19 ON PARAMETER SET 10 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 20 ON PARAMETER SET 10 AND COLUMN  2
```

```
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 21 ON PARAMETER SET 11 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 22 ON PARAMETER SET 11 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  17 ITERATIONS
```

```
     .....CONSTITUENT CALCULATIONS COMPLETED


LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

 RCH REACH NAME                          BEGIN    ENDING    REACH   TRAVEL   FLOW AT   AVERAGE    AVG    AVG   FLOW AT   AVERAGE    AVG    AVG
 NO.                                      DIST      DIST   LENGTH     TIME       EOR      VELO  DEPTH  WIDTH       EOR      VELO  DEPTH  WIDTH
                                           km        km       km     days      m3/s       m/s      m      m       cfs       fps     ft     ft

   1 Weir #3 to Bayou Cane                6.93      6.72     0.21     0.19   0.13816   0.01269  0.760  14.32     4.878     0.042  2.494  46.98
   2 Bayou Cane to BT-08                  6.72      6.49     0.23     0.22   0.14831   0.01190  0.870  14.32     5.237     0.039  2.854  46.98
   3 BT-08 to BT-09                       6.49      5.56     0.93     0.83   0.12073   0.01291  0.710  14.32     4.263     0.042  2.330  46.98
   4 BT-09 to BT-10                       5.56      3.57     1.99     2.14   0.15412   0.01075  0.880  14.63     5.442     0.035  2.887  48.00
   5 BT-10 to BT-11                       3.57      1.89     1.68     2.32   0.37412   0.00838  1.660  18.90    13.210     0.028  5.446  62.01
   6 BT-11 to BT-12                       1.89      0.76     1.13     1.10   0.37202   0.01191  1.370  22.86    13.136     0.039  4.495  75.00
   7 BT-12 to ICWW                        0.76      0.00     0.76     0.74   0.37061   0.01185  1.370  22.86    13.086     0.039  4.495  75.00



     .....BEGIN SENSITIVITY RUN 23 ON PARAMETER SET 12 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED


LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

 RCH REACH NAME                          BEGIN    ENDING    REACH   TRAVEL   FLOW AT   AVERAGE    AVG    AVG   FLOW AT   AVERAGE    AVG    AVG
 NO.                                      DIST      DIST   LENGTH     TIME       EOR      VELO  DEPTH  WIDTH       EOR      VELO  DEPTH  WIDTH
                                           km        km       km     days      m3/s       m/s      m      m       cfs       fps     ft     ft

   1 Weir #3 to Bayou Cane                6.93      6.72     0.21     0.19   0.13816   0.01269  0.760  14.32     4.878     0.042  2.494  46.98
   2 Bayou Cane to BT-08                  6.72      6.49     0.23     0.22   0.14831   0.01190  0.870  14.32     5.237     0.039  2.854  46.98
   3 BT-08 to BT-09                       6.49      5.56     0.93     0.83   0.12073   0.01291  0.710  14.32     4.263     0.042  2.330  46.98
   4 BT-09 to BT-10                       5.56      3.57     1.99     2.14   0.15412   0.01075  0.880  14.63     5.442     0.035  2.887  48.00
   5 BT-10 to BT-11                       3.57      1.89     1.68     2.32   0.37412   0.00838  1.660  18.90    13.210     0.028  5.446  62.01
   6 BT-11 to BT-12                       1.89      0.76     1.13     1.10   0.37202   0.01191  1.370  22.86    13.136     0.039  4.495  75.00
   7 BT-12 to ICWW                        0.76      0.00     0.76     0.74   0.37061   0.01185  1.370  22.86    13.086     0.039  4.495  75.00



     .....BEGIN SENSITIVITY RUN 24 ON PARAMETER SET 12 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 25 ON PARAMETER SET 13 AND COLUMN 1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 26 ON PARAMETER SET 13 AND COLUMN 2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 13 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 27 ON PARAMETER SET 14 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 28 ON PARAMETER SET 14 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  12 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH	REACH NAME	BEGIN	ENDING	REACH	TRAVEL	FLOW AT	AVERAGE	AVG	AVG	FLOW AT	AVERAGE	AVG	AVG

NO.	DIST km	DIST km	LENGTH km	TIME days	EOR m3/s	VELO m/s	DEPTH m	WIDTH m	EOR cfs	VELO fps	DEPTH ft	WIDTH ft
1 Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2 Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3 BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 29 ON PARAMETER SET 15 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 30 ON PARAMETER SET 15 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft

1 Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2 Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3 BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 31 ON PARAMETER SET 16 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 32 ON PARAMETER SET 16 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98

4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 33 ON PARAMETER SET 17 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.20	0.13538	0.01244	0.760	14.32	4.780	0.041	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.23	0.14249	0.01144	0.870	14.32	5.031	0.038	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.87	0.11491	0.01234	0.710	14.32	4.057	0.040	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.33	0.13828	0.00990	0.880	14.63	4.883	0.032	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.82	0.29228	0.00688	1.660	18.90	10.320	0.023	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.41	0.29018	0.00929	1.370	22.86	10.246	0.030	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.95	0.28877	0.00924	1.370	22.86	10.196	0.030	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 34 ON PARAMETER SET 17 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.14094	0.01295	0.760	14.32	4.977	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.15413	0.01237	0.870	14.32	5.442	0.041	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.80	0.12655	0.01349	0.710	14.32	4.469	0.044	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	1.98	0.16996	0.01160	0.880	14.63	6.001	0.038	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	1.97	0.45596	0.00987	1.660	18.90	16.100	0.032	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	0.90	0.45386	0.01452	1.370	22.86	16.026	0.048	4.495	75.00

7 BT-12 to ICWW	0.76	0.00	0.76	0.61	0.45245	0.01446	1.370	22.86	15.976	0.047	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 35 ON PARAMETER SET 18 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.80	0.12900	0.01343	0.710	14.32	4.555	0.044	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.02	0.16239	0.01140	0.880	14.63	5.734	0.037	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.25	0.38239	0.00866	1.660	18.90	13.502	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.07	0.38092	0.01218	1.370	22.86	13.450	0.040	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.72	0.37994	0.01214	1.370	22.86	13.416	0.040	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 36 ON PARAMETER SET 18 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.87	0.11246	0.01239	0.710	14.32	3.971	0.041	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.28	0.14585	0.01011	0.880	14.63	5.150	0.033	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.40	0.36585	0.00810	1.660	18.90	12.918	0.027	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.12	0.36312	0.01163	1.370	22.86	12.822	0.038	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.76	0.36128	0.01156	1.370	22.86	12.757	0.038	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 37 ON PARAMETER SET 19 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 38 ON PARAMETER SET 19 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 39 ON PARAMETER SET 20 AND COLUMN  1
```

```
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 40 ON PARAMETER SET 20 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 41 ON PARAMETER SET 21 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  16 ITERATIONS
```

.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 42 ON PARAMETER SET 21 AND COLUMN 2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 43 ON PARAMETER SET 22 AND COLUMN 1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 44 ON PARAMETER SET 22 AND COLUMN 2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 45 ON PARAMETER SET 23 AND COLUMN 1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 46 ON PARAMETER SET 23 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 47 ON PARAMETER SET 24 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH	REACH NAME	BEGIN	ENDING	REACH	TRAVEL	FLOW AT	AVERAGE	AVG	AVG	FLOW AT	AVERAGE	AVG	AVG

NO.	DIST km	DIST km	LENGTH km	TIME days	EOR m3/s	VELO m/s	DEPTH m	WIDTH m	EOR cfs	VELO fps	DEPTH ft	WIDTH ft
1 Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2 Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3 BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 48 ON PARAMETER SET 24 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 49 ON PARAMETER SET 25 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft

1 Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2 Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3 BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 50 ON PARAMETER SET 25 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 51 ON PARAMETER SET 26 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.27	0.09949	0.00914	0.760	14.32	3.513	0.030	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.30	0.10964	0.00880	0.870	14.32	3.871	0.029	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	1.18	0.08206	0.00909	0.710	14.32	2.898	0.030	2.330	46.98

4 BT-09 to BT-10	5.56	3.57	1.99	2.98	0.11545	0.00773	0.880	14.63	4.077	0.025	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.75	0.33545	0.00706	1.660	18.90	11.845	0.023	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.23	0.33335	0.01067	1.370	22.86	11.771	0.035	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.83	0.33194	0.01062	1.370	22.86	11.721	0.035	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 52 ON PARAMETER SET 26 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.15	0.17683	0.01625	0.760	14.32	6.244	0.053	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.18	0.18698	0.01501	0.870	14.32	6.602	0.049	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.64	0.15940	0.01673	0.710	14.32	5.628	0.055	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	1.67	0.19279	0.01377	0.880	14.63	6.807	0.045	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.01	0.41279	0.00968	1.660	18.90	14.576	0.032	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.00	0.41069	0.01314	1.370	22.86	14.501	0.043	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.67	0.40928	0.01309	1.370	22.86	14.452	0.043	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 53 ON PARAMETER SET 27 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00

7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 54 ON PARAMETER SET 27 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 55 ON PARAMETER SET 28 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  11 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 56 ON PARAMETER SET 28 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   9 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 57 ON PARAMETER SET 29 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  16 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 58 ON PARAMETER SET 29 AND COLUMN  2
```

```
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 59 ON PARAMETER SET 30 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 60 ON PARAMETER SET 30 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
```

```
     .....CONSTITUENT CALCULATIONS COMPLETED


LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

 RCH REACH NAME                          BEGIN    ENDING    REACH   TRAVEL   FLOW AT   AVERAGE    AVG     AVG   FLOW AT   AVERAGE    AVG     AVG
 NO.                                      DIST      DIST   LENGTH     TIME       EOR      VELO  DEPTH   WIDTH       EOR      VELO  DEPTH   WIDTH
                                           km        km       km     days      m3/s       m/s      m       m       cfs       fps     ft      ft

   1 Weir #3 to Bayou Cane                6.93      6.72     0.21     0.19   0.13816   0.01269  0.760   14.32     4.878     0.042  2.494   46.98
   2 Bayou Cane to BT-08                  6.72      6.49     0.23     0.22   0.14831   0.01190  0.870   14.32     5.237     0.039  2.854   46.98
   3 BT-08 to BT-09                       6.49      5.56     0.93     0.83   0.12073   0.01291  0.710   14.32     4.263     0.042  2.330   46.98
   4 BT-09 to BT-10                       5.56      3.57     1.99     2.14   0.15412   0.01075  0.880   14.63     5.442     0.035  2.887   48.00
   5 BT-10 to BT-11                       3.57      1.89     1.68     2.32   0.37412   0.00838  1.660   18.90    13.210     0.028  5.446   62.01
   6 BT-11 to BT-12                       1.89      0.76     1.13     1.10   0.37202   0.01191  1.370   22.86    13.136     0.039  4.495   75.00
   7 BT-12 to ICWW                        0.76      0.00     0.76     0.74   0.37061   0.01185  1.370   22.86    13.086     0.039  4.495   75.00



     .....BEGIN SENSITIVITY RUN 61 ON PARAMETER SET 31 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED


LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

 RCH REACH NAME                          BEGIN    ENDING    REACH   TRAVEL   FLOW AT   AVERAGE    AVG     AVG   FLOW AT   AVERAGE    AVG     AVG
 NO.                                      DIST      DIST   LENGTH     TIME       EOR      VELO  DEPTH   WIDTH       EOR      VELO  DEPTH   WIDTH
                                           km        km       km     days      m3/s       m/s      m       m       cfs       fps     ft      ft

   1 Weir #3 to Bayou Cane                6.93      6.72     0.21     0.19   0.13816   0.01269  0.760   14.32     4.878     0.042  2.494   46.98
   2 Bayou Cane to BT-08                  6.72      6.49     0.23     0.22   0.14831   0.01190  0.870   14.32     5.237     0.039  2.854   46.98
   3 BT-08 to BT-09                       6.49      5.56     0.93     0.83   0.12073   0.01291  0.710   14.32     4.263     0.042  2.330   46.98
   4 BT-09 to BT-10                       5.56      3.57     1.99     2.14   0.15412   0.01075  0.880   14.63     5.442     0.035  2.887   48.00
   5 BT-10 to BT-11                       3.57      1.89     1.68     2.32   0.37412   0.00838  1.660   18.90    13.210     0.028  5.446   62.01
   6 BT-11 to BT-12                       1.89      0.76     1.13     1.10   0.37202   0.01191  1.370   22.86    13.136     0.039  4.495   75.00
   7 BT-12 to ICWW                        0.76      0.00     0.76     0.74   0.37061   0.01185  1.370   22.86    13.086     0.039  4.495   75.00



     .....BEGIN SENSITIVITY RUN 62 ON PARAMETER SET 31 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 63 ON PARAMETER SET 32 AND COLUMN 1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 64 ON PARAMETER SET 32 AND COLUMN 2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 65 ON PARAMETER SET 33 AND COLUMN 1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 66 ON PARAMETER SET 33 AND COLUMN 2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH	REACH NAME	BEGIN	ENDING	REACH	TRAVEL	FLOW AT	AVERAGE	AVG	AVG	FLOW AT	AVERAGE	AVG	AVG

NO.	DIST km	DIST km	LENGTH km	TIME days	EOR m3/s	VELO m/s	DEPTH m	WIDTH m	EOR cfs	VELO fps	DEPTH ft	WIDTH ft
1 Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2 Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3 BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 67 ON PARAMETER SET 34 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 68 ON PARAMETER SET 34 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft

1 Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2 Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3 BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 69 ON PARAMETER SET 35 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 70 ON PARAMETER SET 35 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98

4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 71 ON PARAMETER SET 36 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 72 ON PARAMETER SET 36 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00

7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 73 ON PARAMETER SET 37 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 74 ON PARAMETER SET 37 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 75 ON PARAMETER SET 38 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 76 ON PARAMETER SET 38 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 77 ON PARAMETER SET 39 AND COLUMN  1
```

```
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 78 ON PARAMETER SET 39 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 79 ON PARAMETER SET 40 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
```

```
     .....CONSTITUENT CALCULATIONS COMPLETED


LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

 RCH REACH NAME                          BEGIN    ENDING    REACH   TRAVEL   FLOW AT   AVERAGE    AVG    AVG   FLOW AT   AVERAGE    AVG    AVG
 NO.                                      DIST      DIST   LENGTH     TIME       EOR      VELO  DEPTH  WIDTH       EOR      VELO  DEPTH  WIDTH
                                           km        km       km     days      m3/s       m/s      m      m       cfs       fps     ft     ft

   1 Weir #3 to Bayou Cane                6.93      6.72     0.21     0.19   0.13816   0.01269  0.760  14.32     4.878     0.042  2.494  46.98
   2 Bayou Cane to BT-08                  6.72      6.49     0.23     0.22   0.14831   0.01190  0.870  14.32     5.237     0.039  2.854  46.98
   3 BT-08 to BT-09                       6.49      5.56     0.93     0.83   0.12073   0.01291  0.710  14.32     4.263     0.042  2.330  46.98
   4 BT-09 to BT-10                       5.56      3.57     1.99     2.14   0.15412   0.01075  0.880  14.63     5.442     0.035  2.887  48.00
   5 BT-10 to BT-11                       3.57      1.89     1.68     2.32   0.37412   0.00838  1.660  18.90    13.210     0.028  5.446  62.01
   6 BT-11 to BT-12                       1.89      0.76     1.13     1.10   0.37202   0.01191  1.370  22.86    13.136     0.039  4.495  75.00
   7 BT-12 to ICWW                        0.76      0.00     0.76     0.74   0.37061   0.01185  1.370  22.86    13.086     0.039  4.495  75.00



     .....BEGIN SENSITIVITY RUN 80 ON PARAMETER SET 40 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED


LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

 RCH REACH NAME                          BEGIN    ENDING    REACH   TRAVEL   FLOW AT   AVERAGE    AVG    AVG   FLOW AT   AVERAGE    AVG    AVG
 NO.                                      DIST      DIST   LENGTH     TIME       EOR      VELO  DEPTH  WIDTH       EOR      VELO  DEPTH  WIDTH
                                           km        km       km     days      m3/s       m/s      m      m       cfs       fps     ft     ft

   1 Weir #3 to Bayou Cane                6.93      6.72     0.21     0.19   0.13816   0.01269  0.760  14.32     4.878     0.042  2.494  46.98
   2 Bayou Cane to BT-08                  6.72      6.49     0.23     0.22   0.14831   0.01190  0.870  14.32     5.237     0.039  2.854  46.98
   3 BT-08 to BT-09                       6.49      5.56     0.93     0.83   0.12073   0.01291  0.710  14.32     4.263     0.042  2.330  46.98
   4 BT-09 to BT-10                       5.56      3.57     1.99     2.14   0.15412   0.01075  0.880  14.63     5.442     0.035  2.887  48.00
   5 BT-10 to BT-11                       3.57      1.89     1.68     2.32   0.37412   0.00838  1.660  18.90    13.210     0.028  5.446  62.01
   6 BT-11 to BT-12                       1.89      0.76     1.13     1.10   0.37202   0.01191  1.370  22.86    13.136     0.039  4.495  75.00
   7 BT-12 to ICWW                        0.76      0.00     0.76     0.74   0.37061   0.01185  1.370  22.86    13.086     0.039  4.495  75.00



     .....BEGIN SENSITIVITY RUN 81 ON PARAMETER SET 41 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 82 ON PARAMETER SET 41 AND COLUMN 2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....BEGIN SENSITIVITY RUN 83 ON PARAMETER SET 42 AND COLUMN 1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 84 ON PARAMETER SET 42 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 85 ON PARAMETER SET 43 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH	REACH NAME	BEGIN	ENDING	REACH	TRAVEL	FLOW AT	AVERAGE	AVG	AVG	FLOW AT	AVERAGE	AVG	AVG

NO.	DIST km	DIST km	LENGTH km	TIME days	EOR m3/s	VELO m/s	DEPTH m	WIDTH m	EOR cfs	VELO fps	DEPTH ft	WIDTH ft
1 Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2 Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3 BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 86 ON PARAMETER SET 43 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 87 ON PARAMETER SET 44 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft

1 Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2 Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3 BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 88 ON PARAMETER SET 44 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 89 ON PARAMETER SET 45 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98

4 BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5 BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6 BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 90 ON PARAMETER SET 45 AND COLUMN  2
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
.....BEGIN SENSITIVITY RUN 91 ON PARAMETER SET 46 AND COLUMN  1
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00

7 BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 92 ON PARAMETER SET 46 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 93 ON PARAMETER SET 47 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 94 ON PARAMETER SET 47 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 95 ON PARAMETER SET 48 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 96 ON PARAMETER SET 48 AND COLUMN  2
```

```
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 97 ON PARAMETER SET 49 AND COLUMN  1
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
```

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

```
     .....BEGIN SENSITIVITY RUN 98 ON PARAMETER SET 49 AND COLUMN  2
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  10 ITERATIONS
```

.....CONSTITUENT CALCULATIONS COMPLETED

LOWER BAYOU TERREBONNE MODEL CALIBRATION MODEL 6/27/05
DOWNSTREAM OF THE WEIR #3 (SONIC WEIR

REACH SUMMARY REPORT FOR BT01

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Weir #3 to Bayou Cane	6.93	6.72	0.21	0.19	0.13816	0.01269	0.760	14.32	4.878	0.042	2.494	46.98
2	Bayou Cane to BT-08	6.72	6.49	0.23	0.22	0.14831	0.01190	0.870	14.32	5.237	0.039	2.854	46.98
3	BT-08 to BT-09	6.49	5.56	0.93	0.83	0.12073	0.01291	0.710	14.32	4.263	0.042	2.330	46.98
4	BT-09 to BT-10	5.56	3.57	1.99	2.14	0.15412	0.01075	0.880	14.63	5.442	0.035	2.887	48.00
5	BT-10 to BT-11	3.57	1.89	1.68	2.32	0.37412	0.00838	1.660	18.90	13.210	0.028	5.446	62.01
6	BT-11 to BT-12	1.89	0.76	1.13	1.10	0.37202	0.01191	1.370	22.86	13.136	0.039	4.495	75.00
7	BT-12 to ICWW	0.76	0.00	0.76	0.74	0.37061	0.01185	1.370	22.86	13.086	0.039	4.495	75.00

.....EXECUTION COMPLETED