

Wasteload Allocation for Red Chute Bayou near Bossier City
Project File # 76
Author: Gibson E. Asuquo
Date: October 25, 1994
Revised: February 23, 1996 by Karen Norton; April 10, 1997 by Madeline Rogers

FINAL

ADDENDUM TO THE WASTELOAD ALLOCATION

FOR

RED CHUTE BAYOU NEAR BOSSIER CITY

PREPARED BY:
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October 25, 1994

REVISED BY:

MADELINE ROGERS

APRIL 10, 1997

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TABLE OF CONTENTS

LIST OF FIGURES	iii
LIST OF TABLES	iii
EXECUTIVE SUMMARY	1
REFERENCES	3
APPENDIX A	
Graphs of model calibration and TMDL projections	
APPENDIX B	
Minimum dissolved oxygen values at various level of treatments	
Model input data set for summer and winter seasons	
APPENDIX C	
Model output data set for summer and winter seasons	
APPENDIX D	
Vector Diagram of Outfall Locations	

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LIST OF FIGURES

Figure 1 CBOD Calibration Curve	A2
Figure 2 NBOD Calibration Curve	A3
Figure 3 DO Calibration Curve	A4
Figure 4 Summer Season Effluent DO=2 Projection Curve	A5
Figure 5 Summer Season Effluent DO=5 Projection Curve	A6
Figure 6 Summer Season Effluent DO=6 Projection Curve	A7
Figure 7 Winter Season Effluent DO=2 Projection Curve	A8
Figure 8 Winter Season Effluent DO=5 Projection Curve	A9
Figure 9 Winter Season Effluent DO=6 Projection Curve	A10
Figure 10 Vector Diagram of Outfall Locations	D2

LIST OF TABLES

Table A Red Chute Bayou Dischargers Included in this Analysis	B1
Table 1 Model Calibration Input Data	B2
Table 2 Summer Minimum DO values at various treatment levels	B4
Table 3 Winter Minimum DO Values at various treatment levels	B5
Table 4 Summer TMDL Input Data - 10/05/2	B6
Table 5 Summer TMDL Input Data - 10/05/5	B8
Table 6 Winter TMDL Input Data - 30/15/2	B10
Table 7 Winter TMDL Input Data - 30/15/5	B12
Table 8 Summer TMDL Output Data - 10/05/2	C2
Table 9 Summer TMDL Output Data - 10/05/5	C25
Table 10 Winter TMDL Output Data - 30/15/2	C48
Table 11 Winter TMDL Output Data - 30/15/5	C71

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EXECUTIVE SUMMARY

Wasteload allocation modeling (WLA 91.07) dated August 25, 1991 was prepared for several facilities which discharged into Red Chute Bayou. These facilities included Bossier City (LA 0065978, WP1222), Dogwood Subdivision North (GP7899), Dogwood Subdivision South (GP7969), East Highland Mobile Home Park (LA0032981, WP3512), and Espanita Forest Subdivision (GP7902). In this wasteload allocation, the Dogwood Subdivision South discharge was not used in the model calibration run because the flow usually evaporated in the effluent ditch before reaching Red Chute Bayou. Dogwood South was included in the TMDL projections. The total design flow of discharges to the Bayou was 2.563 MGD (3.973 CFS). The wastewater treatment facilities included in this wasteload allocation analysis are listed in Table A. Design flows differ from those used in the 1984 study and were taken from the permit in effect in 1991.

TABLE A - Red Chute Bayou Dischargers Included in this Analysis

Discharger	Permit	RIVERMILE	DESIGN-FLOW (MGD) (CFS)		TREATMENT TYPE
Dogwood North	GP7899	7.800	0.175	0.271	2-cell oxidation pond
East Highland	LA0032981	4.300	0.030	0.047	1-cell oxidation pond
	WP3512				
Espanita Forest	GP7902	4.200	0.059	0.092	1-cell oxidation pond
Dogwood South	GP7969	5.796	0.299	0.463	2-cell oxidation pond

Bossier City has constructed a new treatment facility which discharges into the Red River. Six other small facilities which were included in the 1984 model have also been eliminated after research showed that they should not be included in the model. Negotiations are underway to eventually reroute the effluent from Dogwood North and Dogwood South to the Bossier City facility, however, these two facilities have been retained in the model to reflect current conditions. Based on this update, the Red Chute Bayou model was reevaluated. The old model was verified by running at the same calibration conditions. The same results were obtained, confirming the reliability of the original model run.

The predictive model was then rerun without the Bossier City and six minor discharges. The summer run upstream loading and flow were as per the original calibration. The same upstream conditions were used for the winter run because seasonal critical flow data was not available. The

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initial violation of DO criteria of 3.7 mg/l measured at the headwater (river mile 9.00) was due to this overly conservative assumption. Therefore, the initial violation of DO criteria shown between river miles 9.00 and 8.50 for the winter runs was disregarded.

A Use Attainability Analysis (UAA) was conducted on Red Chute Bayou to assess past and current chemical, physical, and biological conditions. The UAA established DO criteria of 5 mg/L for the winter season (November - April) and 3 mg/L for the summer season (May - October). This criteria has been adopted as the standard for Red Chute Bayou by the Water Bodies Use Designations (LAC 33:IX.1123)(WP18). The model calculations indicate that Red Chute Bayou can meet the DO criteria with summer effluent limits of 20/10/2 (CBOD₅/NH₃-N/effluent DO) and winter limits of 30/15/2 (CBOD₅/NH₃-N/effluent DO) for all modeled discharges.

Appendix A includes graphs of model calibration and TMDL projections. Appendix B includes tables of minimum dissolved oxygen values at various treatment levels and selected model input data set for summer and winter seasons. Appendix C includes tables of selected model output data set for summer and winter seasons. Appendix D includes a vector diagram of the outfalls.

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REFERENCES

LADEQ, 1994. Louisiana Total Maximum Daily Load Technical Procedures. Office of Water Resources.

Limno-Tech, Inc., 1984. A Wasteload Allocation for the bossier city Municipal Wastewater Treatment Facility on Red Chute Bayou. Limno-Tech, Inc. Water Resource Engineering. Ann Arbor, Michigan.

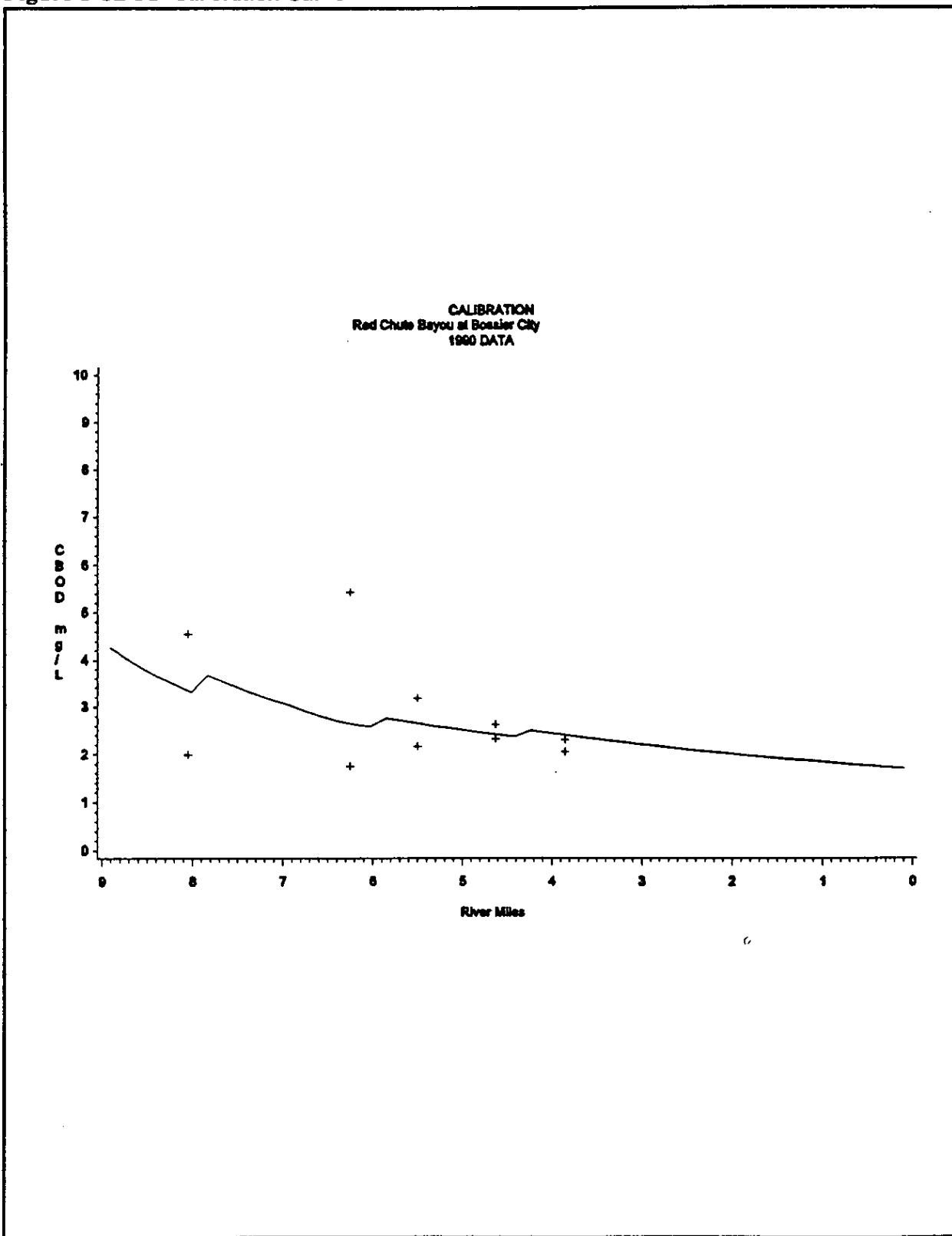
Rogers, M., 1991. Wasteload Allocation for Red Chute Bayou near Bossier City, Report Number CLIWS/91.07. Grant Number C6-220000-29. Center for Louisiana Inland Water Studies. Department of Civil Engineering, University of Southwestern Louisiana. Lafayette, Louisiana.

APPENDIX A

Graphs of:-

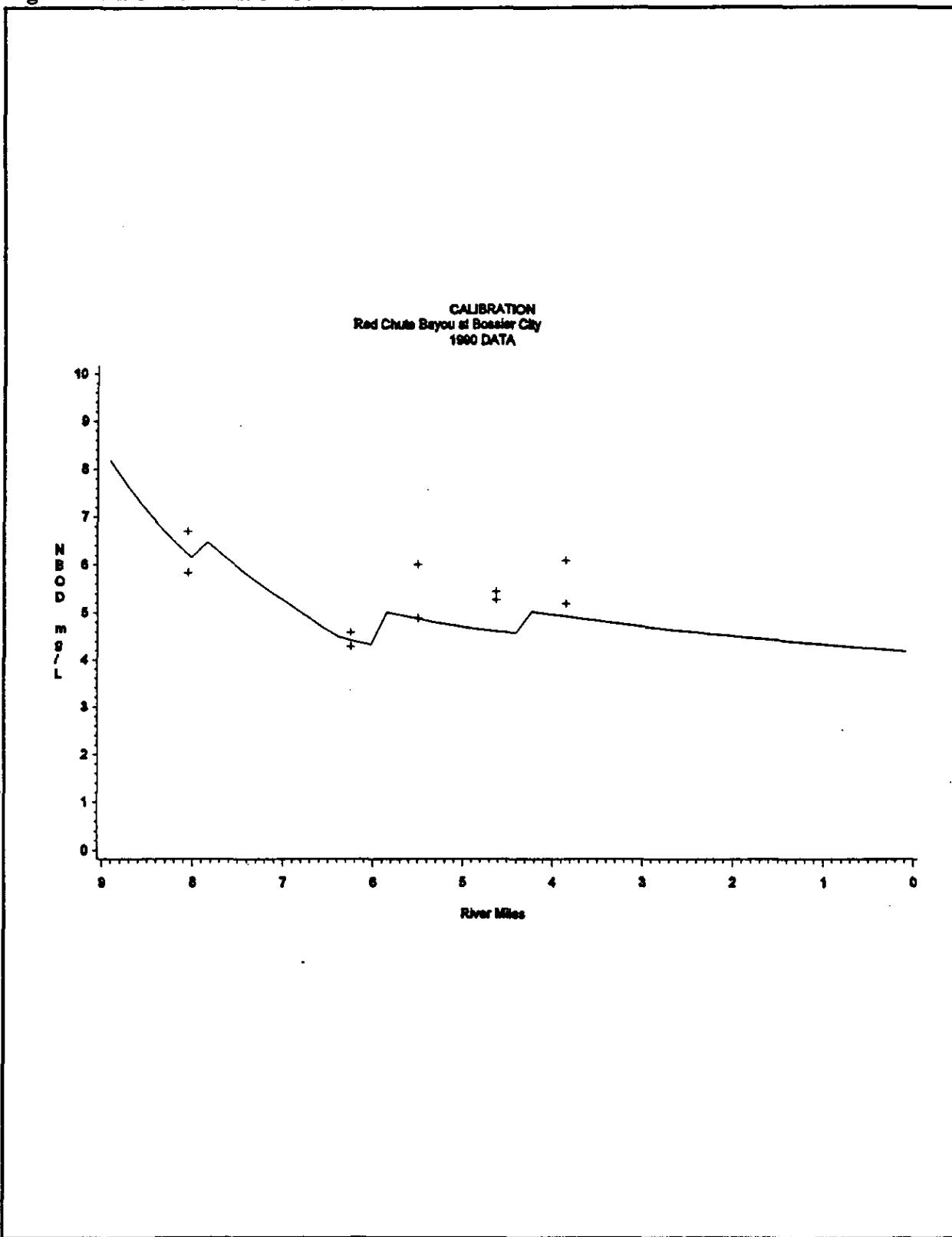
- | | |
|------------------------------|------------------------------------|
| Model Calibration: | ● CBOD |
| | ● NBOD |
| | ● DO |
|
TMDL Projections: | |
| | ● Effluent DO 2, Summer Season |
| | ● Effluent DO 5, Summer Season |
| | ● Effluent DO 6, Summer Season |
| |
● Effluent DO 2, Winter Season |
| | ● Effluent DO 5, Winter Season |
| | ● Effluent DO 6, Winter Season |

Figure 1 CBOD Calibration Curve



A2

Figure 2 NBOD Calibration Curve



A3

Figure 3 DO Calibration

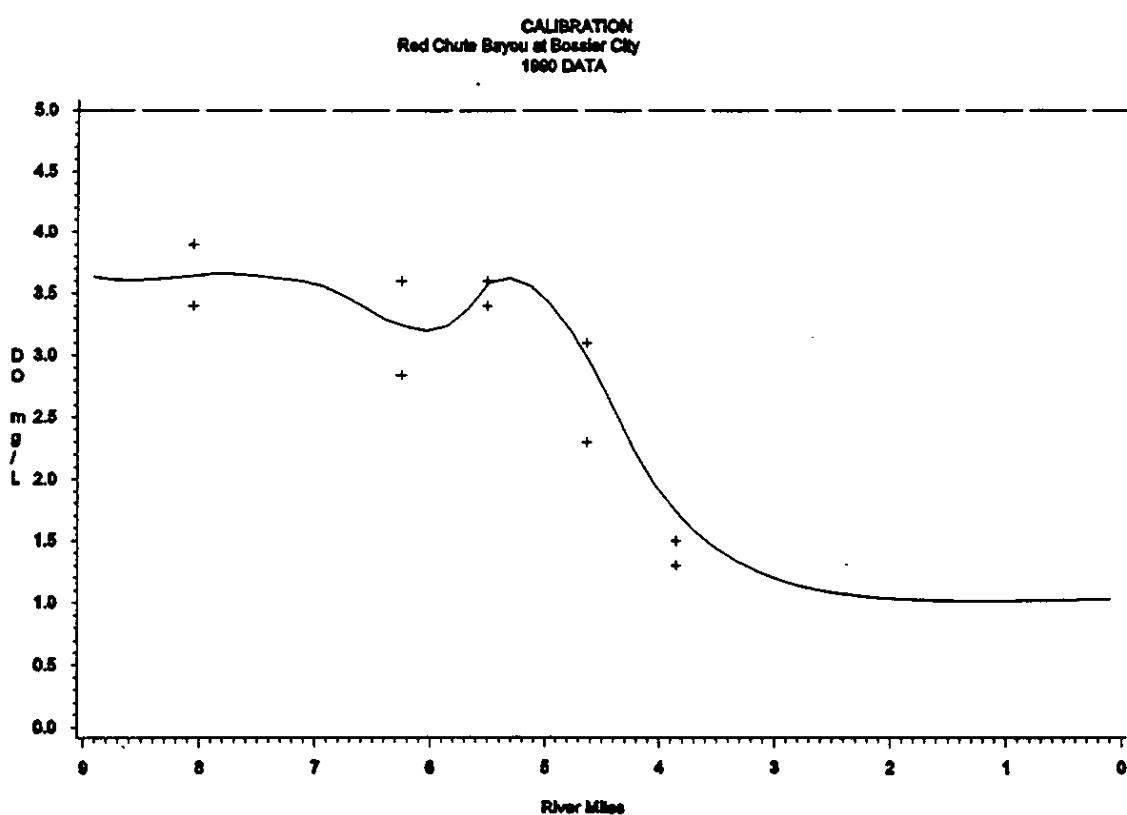
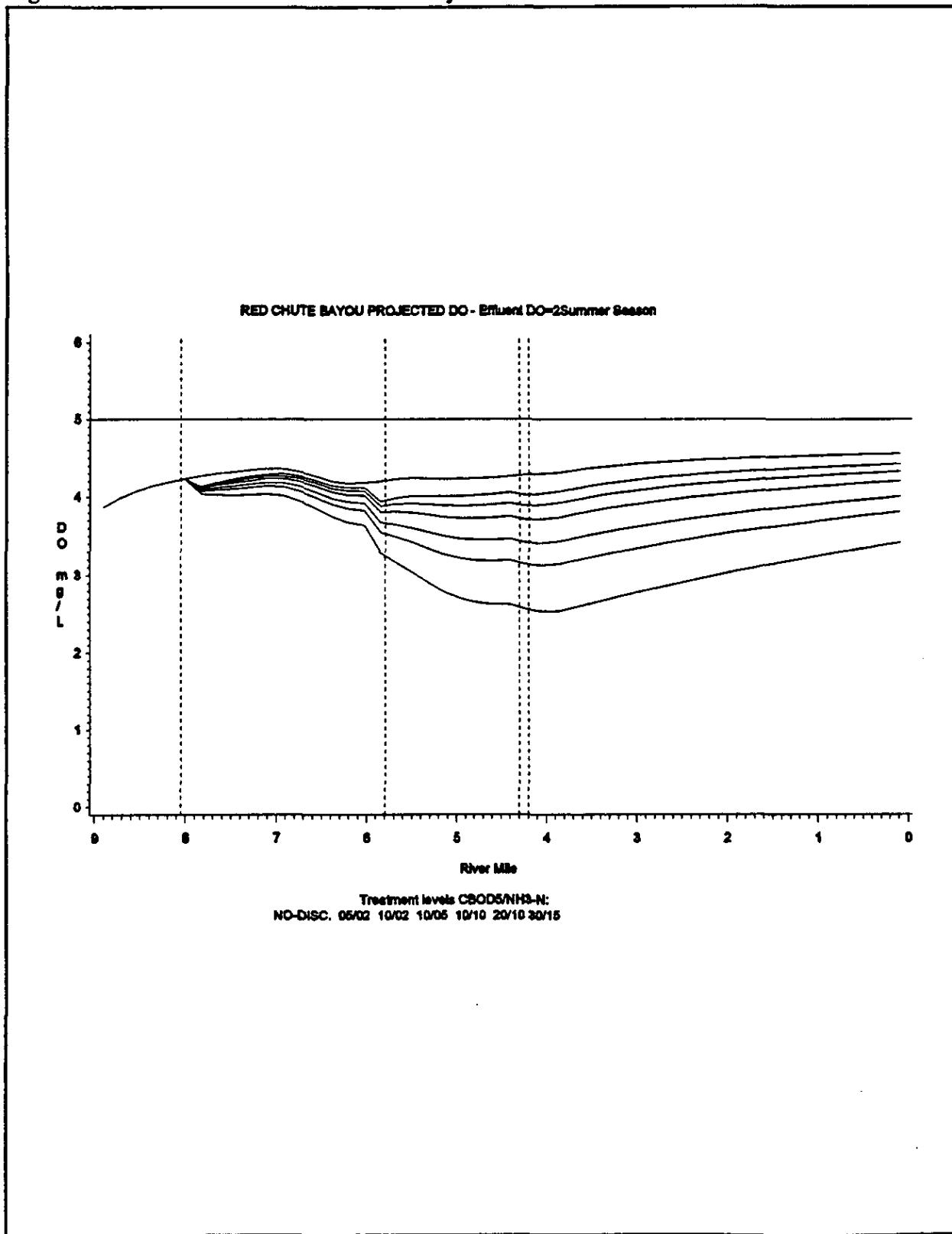


Figure 4 Summer Season Effluent DO=2 Projection Curve



A5

Figure 5 Summer Season Effluent DO=5 Projection Curve

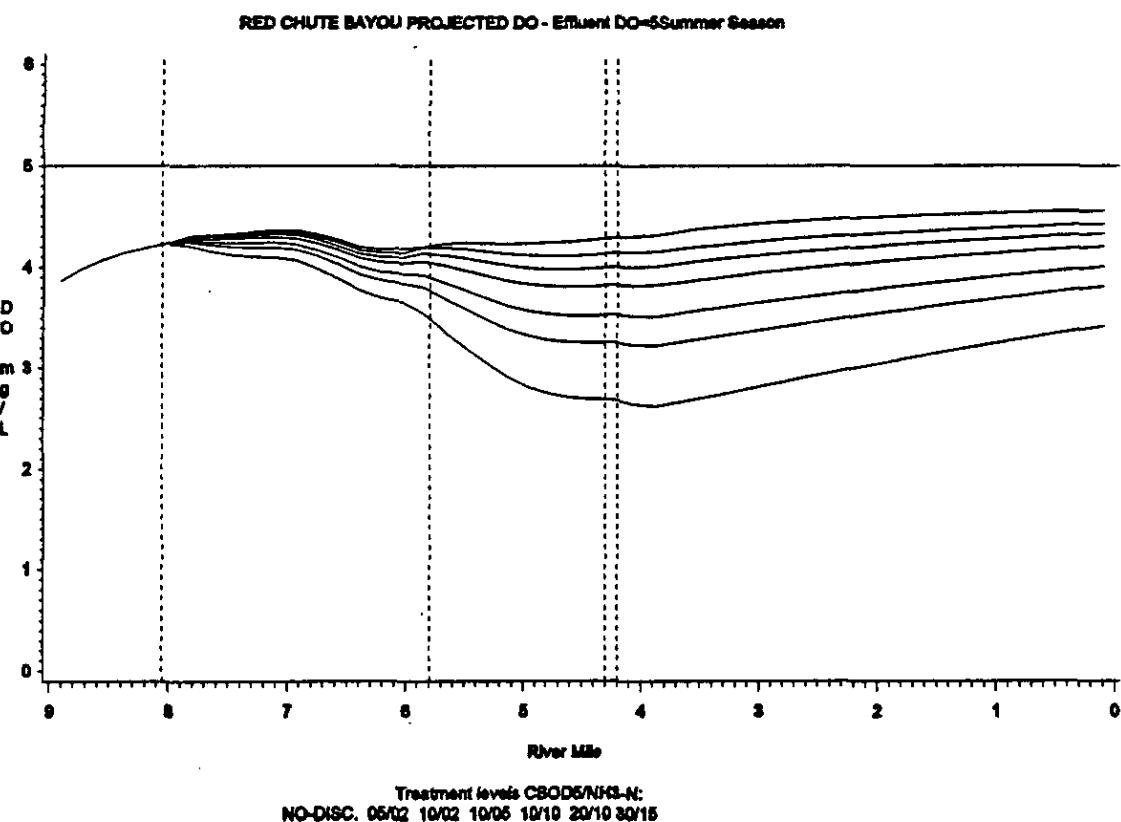


Figure 6 Summer Season Effluent DO=6 Projection Curve

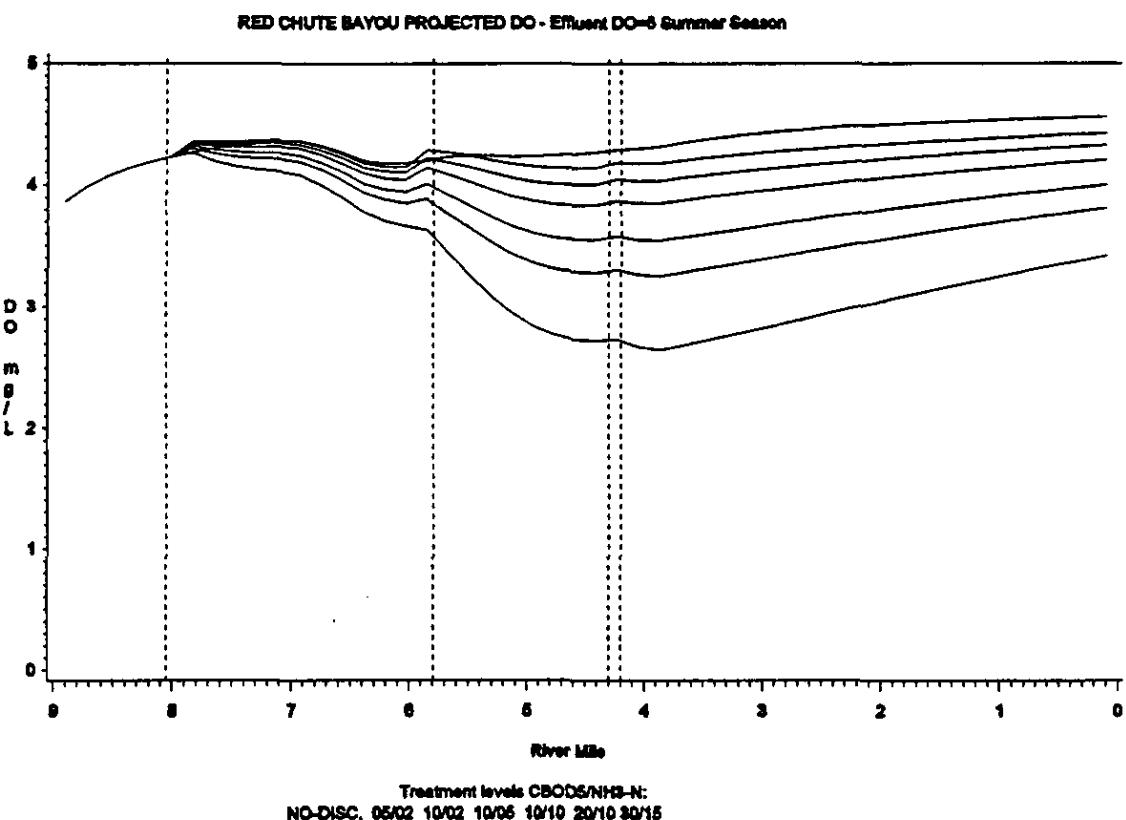


Figure 7 Winter Season Effluent DO=2 Projection Curve

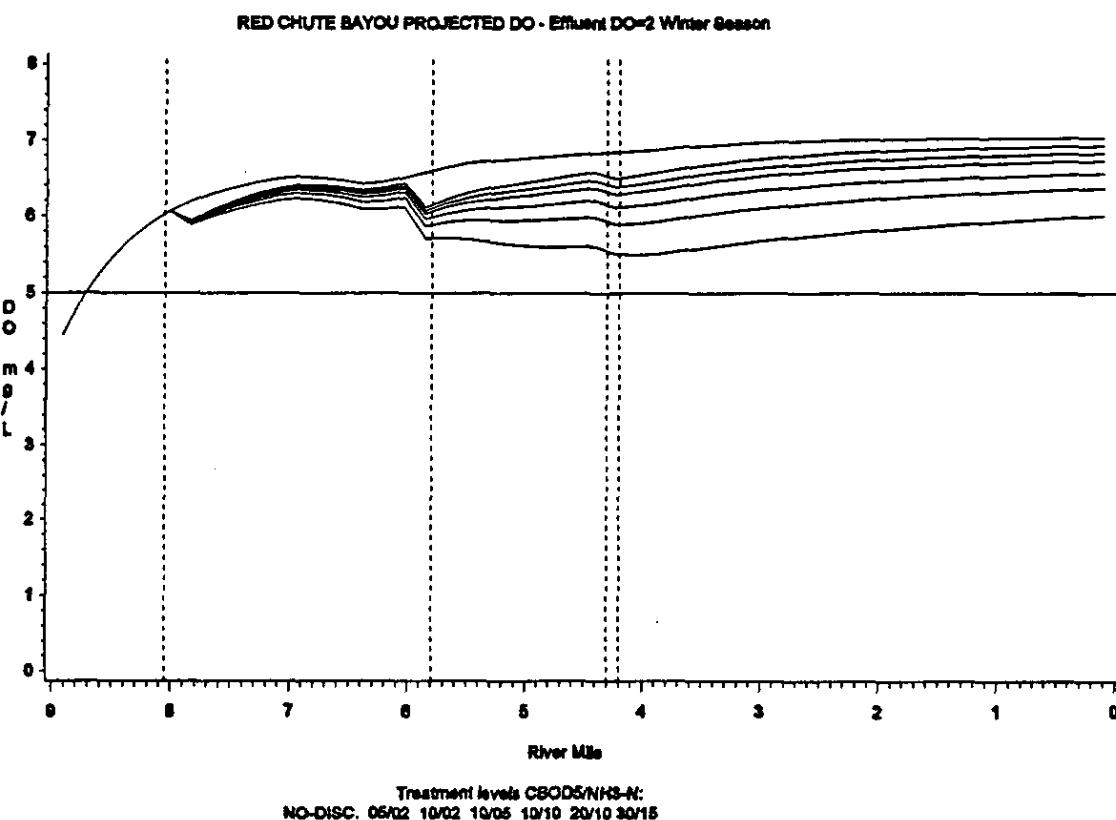


Figure 8 Winter Season Effluent DO=5 Projection Curve

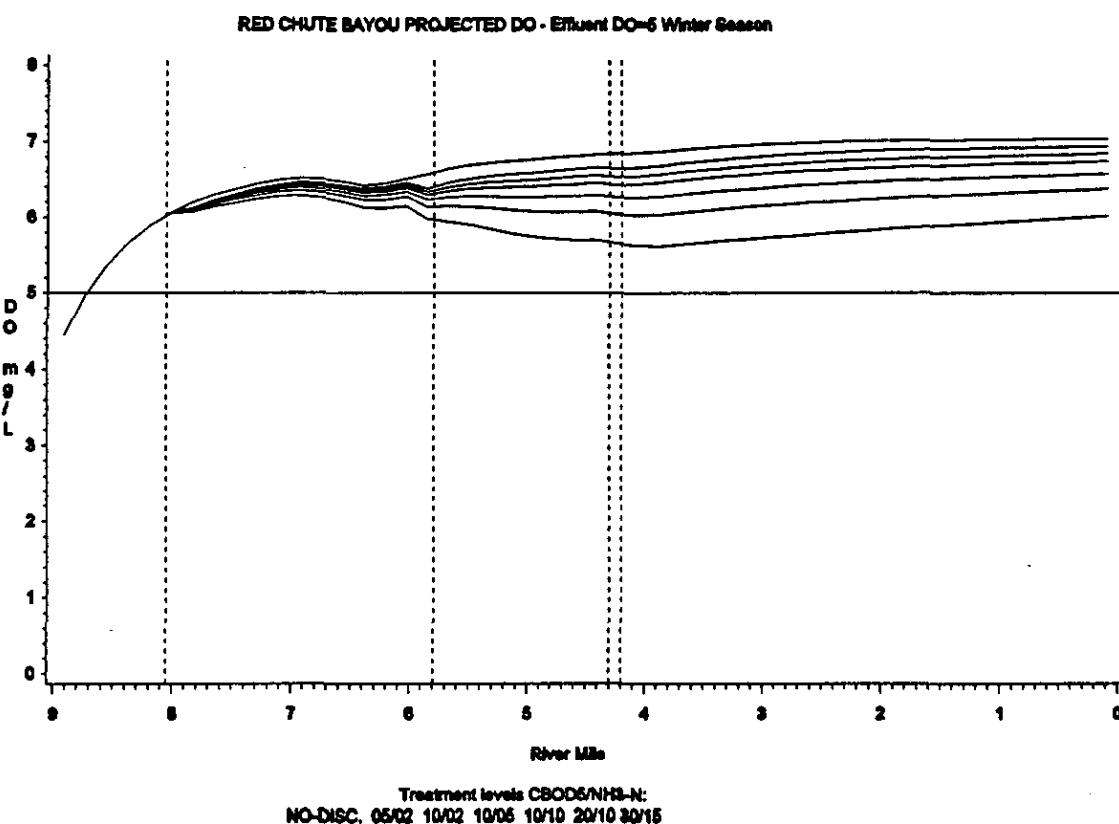
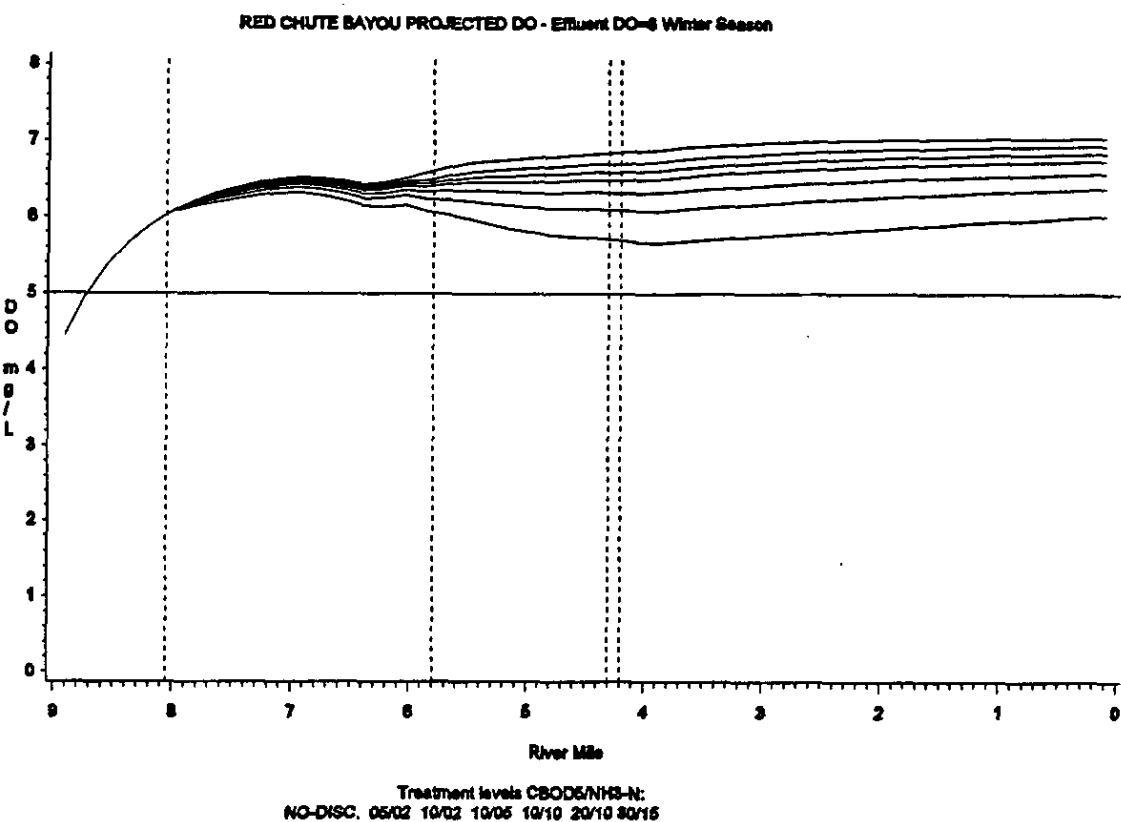


Figure 9 Winter Season Effluent DO=6 Projection Curve



APPENDIX B

Model Data Set:-

Minimum DOs at various Treatment Levels

- Input:**
- Calibration
 - 10/05/2 (Summer)
 - 10/05/5 (Summer)
 - 30/15/2 (Winter)
 - 30/15/5 (Winter)

Table 1 Model Calibration Input Data

Red Chute Bayou at Bossier City Calibration
-9.000 9.000 0.000 100

DATA

WIDTH	7	1.000
1	3.70	53.000
2	3.95	46.000
3	4.40	46.000
4	5.20	41.000
5	5.65	52.000
6	6.25	30.000
7	7.00	52.000

DEPTH	7	1.000
1	3.70	1.510
2	3.95	1.740
3	4.40	1.720
4	5.20	1.930
5	5.65	1.520
6	6.25	1.920
7	7.00	0.714

TEMP	1	1.000
1	0.000	28.700
PHOTO	1	1.000
1	0.000	0.000
RESP	1	1.000
1	0.000	0.000
SATDO	1	1.000
1	0.000	7.786
EVAP	1	1.000
1	0.000	0.000
SEDI	4	1.000
1	7.800	1.400
2	5.910	1.600
3	5.500	1.000
4	4.300	2.500
COXY	1	1.000
1	0.000	0.100
CSED	1	1.000
1	0.000	0.025
NOXY	1	1.000
1	0.000	0.080
NSED	1	1.000
1	0.000	0.005
NONPFLOW	3	1.000
1	8.050	0.630
2	6.250	0.630
3	6.200	0.000
NONPNBOD	5	1.000
1	8.050	8.000
2	6.250	5.000
3	6.200	8.000
4	4.500	15.000
5	4.300	15.000
NONPCBOD	3	1.000

1	8.050	6.000
2	6.250	6.000
3	6.200	4.000
NONPDO	3	1.000
1	8.050	3.700
2	6.250	3.700
3	6.200	0.000
C-REAER	5	1.000
MINI-KL		1.9
DISP	1	1.000
		0.000
STOP		
FLOW		
SENS		1.000
	9.000	2.140
	7.800	0.040
	5.910	1.240
	4.300	0.047
	4.200	0.010
STOP		
NBOD		
SENS		1.000
	9.000	2.140
	7.800	0.040
	5.910	1.240
	4.300	0.047
	4.200	0.010
STOP		
CBOD		
SENS		1.000
	9.000	2.140
	7.800	0.040
	5.910	1.240
	4.300	0.047
	4.200	0.010
STOP		
DO		
SENS		1.000
	9.000	2.140
	7.800	0.040
	5.910	1.240
	4.300	0.047
	4.200	0.010
STOP		
HALT		

Table 2 Minimum DO at various Treatment Levels
Summer Critical Conditions

CBOD ₅	NH ₃ -N	EFFLUENT DO	MINIMUM DO
30	15	2	2.5383
20	10	2	3.1288
10	10	2	3.4143
10	5	2	3.7104
10	2	2	3.8865
5	2	2	4.0094
NO DISCHARGE			
30	15	5	2.6226
20	10	5	3.2223
10	10	5	3.5128
10	5	5	3.8107
10	2	5	3.9810
5	2	5	4.1127
NO DISCHARGE			
30	15	6	2.6506
20	10	6	3.2504
10	10	6	3.5408
10	5	6	3.8353
10	2	6	4.0057
5	2	6	4.1390
NO DISCHARGE			

Table 3 Minimum DO at various Treatment Levels
Winter Season

CBOD _x	NH ₃ -N	EFFLUENT DO	MINIMUM DO
30	15	2	5.4996
20	10	2	5.8911
10	10	2	6.1106
10	5	2	6.0249
10	2	2	6.0653
5	2	2	6.1107
NO DISCHARGE			
30	15	5	5.6194
20	10	5	6.0310
10	10	5	6.2569
10	5	5	6.4239
10	2	5	6.5241
5	2	5	6.6339
NO DISCHARGE			
30	15	6	5.6560
20	10	6	6.0725
10	10	6	6.3027
10	5	6	6.4727
10	2	6	6.5729
5	2	6	6.6827
NO DISCHARGE			

Table 4 Summer TMDL Input Data - 10/05/2

Red Chute Bayou TMDL		10/05 treatment 2 effluent DO	
-9.000	9.000	0.000	100
DATA			
WIDTH	7	1.000	
1	3.70	53.000	
2	3.95	46.000	
3	4.40	46.000	
4	5.20	41.000	
5	5.65	52.000	
6	6.25	30.000	
7	7.00	52.000	
DEPTH	7	1.000	
1	3.70	1.510	
2	3.95	1.740	
3	4.40	1.720	
4	5.20	1.930	
5	5.65	1.520	
6	6.25	1.920	
7	7.00	0.714	
TEMP	1	1.000	
1	0.000	29.250	
PHOTO	1	1.000	
1	0.000	0.000	
RESP	1	1.000	
1	0.000	0.000	
SATDO	1	1.000	
1	0.000	7.658	
EVAP	1	1.000	
1	0.000	0.000	
SEDI	1	1.000	
1	0.000	1.000	
COXY	1	1.000	
1	0.000	0.100	
CSED	1	1.000	
1	0.000	0.025	
NOXY	1	1.000	
1	0.000	0.080	
NSED	1	1.000	
1	0.000	0.005	
NONPFLOW	3	1.000	
1	8.050	0.630	
2	6.250	0.630	
3	6.200	0.000	
NONPNBOD	5	1.000	
1	8.050	8.000	
2	6.250	5.000	
3	6.200	8.000	
4	4.500	15.000	
5	4.300	15.000	
NONPCBOD	3	1.000	
1	8.050	6.000	
2	6.250	6.000	
3	6.200	4.000	
NONPDO	3	1.000	

1	8.050	3.700
2	6.250	3.700
3	6.200	0.000
C-REAER	5	1.000
MINI-KL	1.9	
DISP	1	1.000
	0.000	0.000
STOP		
FLOW		
SENS	1.000	
	9.000	3.449
	7.800	0.339
	5.796	0.579
	4.300	0.059
	4.200	0.115
STOP		
NBOD		
SENS	1.000	1.000
	9.000	3.449
	7.800	0.339
	5.796	0.579
	4.300	0.059
	4.200	0.115
STOP		
CBOD		
SENS	1.000	1.000
	9.000	3.449
	7.800	0.339
	5.796	0.579
	4.300	0.059
	4.200	0.115
STOP		
DO		
SENS	1.000	1.000
	9.000	3.449
	7.800	0.339
	5.796	0.579
	4.300	0.059
	4.200	0.115
STOP		
HALT		

Table 5 Summer TMDL Input Data - 10/05/5

Red Chute Bayou TMDL		10/05 treatment 5 effluent DO		
	-9.000	9.000	0.000	100
DATA				
WIDTH	7	1.000		
1	3.70	53.000		
2	3.95	46.000		
3	4.40	46.000		
4	5.20	41.000		
5	5.65	52.000		
6	6.25	30.000		
7	7.00	52.000		
DEPTH	7	1.000		
1	3.70	1.510		
2	3.95	1.740		
3	4.40	1.720		
4	5.20	1.930		
5	5.65	1.520		
6	6.25	1.920		
7	7.00	0.714		
TEMP	1	1.000		
1	0.000	29.250		
PHOTO	1	1.000		
1	0.000	0.000		
RESP	1	1.000		
1	0.000	0.000		
SATDO	1	1.000		
1	0.000	7.658		
EVAP	1	1.000		
1	0.000	0.000		
SEDI	1	1.000		
1	0.000	1.000		
COXY	1	1.000		
1	0.000	0.100		
CSED	1	1.000		
1	0.000	0.025		
NOXY	1	1.000		
1	0.000	0.080		
NSED	1	1.000		
1	0.000	0.005		
NONPFLOW	3	1.000		
1	8.050	0.630		
2	6.250	0.630		
3	6.200	0.000		
NONPNBOD	5	1.000		
1	8.050	8.000		
2	6.250	5.000		
3	6.200	8.000		
4	4.500	15.000		
5	4.300	15.000		
NONPCBOD	3	1.000		
1	8.050	6.000		
2	6.250	6.000		
3	6.200	4.000		
NONPDO	3	1.000		
1	8.050	3.700		
2	6.250	3.700		

Table 6 Winter TMDL Input Data - 30/15/2

Red Chute Bayou TMDL 30/15 treatment 2 effluent DO
-9.000 9.000 0.000 100

DATA	7	1.000
WIDTH	1	3.70 53.000
	2	3.95 46.000
	3	4.40 46.000
	4	5.20 41.000
	5	5.65 52.000
	6	6.25 30.000
	7	7.00 52.000
DEPTH	7	1.000
	1	3.70 1.510
	2	3.95 1.740
	3	4.40 1.720
	4	5.20 1.930
	5	5.65 1.520
	6	6.25 1.920
	7	7.00 0.714
TEMP	1	1.000
	1	0.000 19.140
PHOTO	1	1.000
	1	0.000 0.000
RESP	1	1.000
	1	0.000 0.000
SATDO	1	1.000
	1	0.000 9.250
EVAP	1	1.000
	1	0.000 0.000
SEDI	1	1.000
	1	0.000 1.000
COXY	1	1.000
	1	0.000 0.100
CSED	1	1.000
	1	0.000 0.025
NOXY	1	1.000
	1	0.000 0.080
NSED	1	1.000
	1	0.000 0.005
NONPFLOW	3	1.000
	1	8.050 0.630
	2	6.250 0.630
	3	6.200 0.000
NONPNBOD	5	1.000
	1	8.050 8.000
	2	6.250 5.000
	3	6.200 8.000
	4	4.500 15.000
	5	4.300 15.000
NONPCBOD	3	1.000
	1	8.050 6.000
	2	6.250 6.000
	3	6.200 4.000
NONPDO	3	1.000
	1	8.050 3.700
	2	6.250 3.700

APPENDIX C

Model Data Set:-

- | | |
|----------------|---------------------------|
| Output: | ● 10/05/2 (Summer) |
| ● | 10/05/5 (Summer) |
| ● | 30/15/2 (Winter) |
| ● | 30/15/5 (Winter) |

Table 8 Summer TMIDL Output Data - 10/05/2

```

*****
***** LaDEQ 1.03 *****
*****
    LLL   III   MMM   MMM   NNN   NNN   OOOOOOOOOO   SSSSSSSSSSS
    LLL   III   MMM   MMM   NNN   NNN   OOOOOOOOOO   SSSSSSSSSSS
    LLL   III   MMM   MMM   NNNNNN   NNN   OOO   000   SS
    LLL   III   MMM   MMM   MMMMM   MMM   NNNNNN   NNN   OOO   000   SSSSSSSSS
    LLL   III   MPM   MPM   MPM   MPM   NNN   NNN   NNN   NNN   OOO   000   SSSSSSSSS
    LLL   III   MPM   MPM   MPM   MPM   NNN   NNN   NNN   NNN   OOO   000   SSSSSSSSS
    LLL   III   MPM   MPM   MPM   MPM   NNN   NNN   NNN   NNN   OOO   000   SSSSSSSSS
    LLL   III   MPM   MPM   MPM   MPM   NNN   NNN   NNN   NNN   OOO   000   SSSSSSSSS
    LLLL  III   MPM   MPM   MPM   MPM   NNNNNN   NNNNNN   NNNNNN   NNNNNN   OOOOOOOOOOO   SSSSSSSSSSS
    LLLL  III   MPM   MPM   MPM   MPM   NNN   NNN   NNN   NNN   OOOOOOOOOOO   SSSSSSSSSSS
    LLLL  III   MPM   MPM   MPM   MPM   NNN   NNN   NNN   NNN   OOOOOOOOOOO   SSSSSSSSSSS
    ***** STEADY STATE WATER QUALITY MODEL *****
    ***** RUN TITLE.....Red Chute Bayou TMDL 10/05 treatment 2 effluent DO *****
    ***** BASIC NETWORK DATA *****
    RIVER MILE AT UPSTREAM END... -9.00
    RIVER MILE AT DOWNSTREAM END... 9.00
    RIVER MILE OF FALL LINE..... 0.00
    NUMBER OF SECTIONS..... 100
    *****
    18-OCT-94
    13:33:24

```

ESTUARY / STREAM INPUT DATA

***** JUNCT+N WIDTHS (FT) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	53.000	27	-4.41	53.000	52	0.9	53.000	77	4.59	44.813
2	-8.91	53.000	28	-4.23	53.000	53	0.27	53.000	78	4.77	43.688
3	-8.73	53.000	29	-4.05	53.000	54	0.45	53.000	79	4.95	42.563
4	-8.55	53.000	30	-3.87	53.000	55	0.63	53.000	80	5.13	41.438
5	-8.37	53.000	31	-3.69	53.000	56	0.81	53.000	81	5.31	43.689
6	-8.19	53.000	32	-3.51	53.000	57	0.99	53.000	82	5.49	48.089
7	-8.01	53.000	33	-3.33	53.000	58	1.17	53.000	83	5.67	51.267
8	-7.83	53.000	34	-3.15	53.000	59	1.35	53.000	84	5.85	44.667
9	-7.65	53.000	35	-2.97	53.000	60	1.53	53.000	85	6.03	38.067
10	-7.47	53.000	36	-2.79	53.000	61	1.71	53.000	86	6.21	31.467
11	-7.29	53.000	37	-2.61	53.000	62	1.89	53.000	87	6.39	34.107
12	-7.11	53.000	38	-2.43	53.000	63	2.07	53.000	88	6.57	39.387
13	-6.93	53.000	39	-2.25	53.000	64	2.25	53.000	89	6.75	44.667
14	-6.75	53.000	40	-2.07	53.000	65	2.43	53.000	90	6.93	49.947
15	-6.57	53.000	41	-1.89	53.000	66	2.61	53.000	91	7.11	52.000
16	-6.39	53.000	42	-1.71	53.000	67	2.79	53.000	92	7.29	52.000
17	-6.21	53.000	43	-1.53	53.000	68	2.97	53.000	93	7.47	52.000
18	-6.03	53.000	44	-1.35	53.000	69	3.15	53.000	94	7.65	52.000
19	-5.85	53.000	45	-1.17	53.000	70	3.33	53.000	95	7.83	52.000
20	-5.67	53.000	46	-0.99	53.000	71	3.51	53.000	96	8.01	52.000
21	-5.49	53.000	47	-0.81	53.000	72	3.69	53.000	97	8.19	52.000
22	-5.31	53.000	48	-0.63	53.000	73	3.87	48.240	98	8.37	52.000
23	-5.13	53.000	49	-0.45	53.000	74	4.05	46.000	99	8.55	52.000
24	-4.95	53.000	50	-0.27	53.000	75	4.23	46.000	100	8.73	52.000
25	-4.77	53.000	51	-0.09	53.000	76	4.41	45.938	101	8.91	52.000
26	-4.59	53.000									

***** JUNCTION SURFACE AREAS (SQFT) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	5.037E+04	27	-4.41	5.037E+04	52	0.9	5.037E+04	77	4.59	4.259E+04
2	-8.91	5.037E+04	28	-4.23	5.037E+04	53	0.27	5.037E+04	78	4.77	4.152E+04
3	-8.73	5.037E+04	29	-4.05	5.037E+04	54	0.45	5.037E+04	79	4.95	4.045E+04
4	-8.55	5.037E+04	30	-3.87	5.037E+04	55	0.63	5.037E+04	80	5.13	3.938E+04
5	-8.37	5.037E+04	31	-3.69	5.037E+04	56	0.81	5.037E+04	81	5.31	4.152E+04
6	-8.19	5.037E+04	32	-3.51	5.037E+04	57	0.99	5.037E+04	82	5.49	4.570E+04
7	-8.01	5.037E+04	33	-3.33	5.037E+04	58	1.17	5.037E+04	83	5.67	4.872E+04
8	-7.83	5.037E+04	34	-3.15	5.037E+04	59	1.35	5.037E+04	84	5.85	4.245E+04

-7.65	5.037E+04	35	-2.97	5.037E+04	60	1.53	5.037E+04	85	6.03
-7.47	5.037E+04	36	-2.79	5.037E+04	61	1.71	5.037E+04	86	6.21
-7.29	5.037E+04	37	-2.61	5.037E+04	62	1.89	5.037E+04	87	6.39
-7.11	5.037E+04	38	-2.43	5.037E+04	63	2.07	5.037E+04	88	6.57
-6.93	5.037E+04	39	-2.25	5.037E+04	64	2.25	5.037E+04	89	6.75
-6.75	5.037E+04	40	-2.07	5.037E+04	65	2.43	5.037E+04	90	6.93
-6.57	5.037E+04	41	-1.89	5.037E+04	66	2.61	5.037E+04	91	7.11
-6.39	5.037E+04	42	-1.71	5.037E+04	67	2.79	5.037E+04	92	7.29
-6.21	5.037E+04	43	-1.53	5.037E+04	68	2.97	5.037E+04	93	7.47
-6.03	5.037E+04	44	-1.35	5.037E+04	69	3.15	5.037E+04	94	7.65
-5.85	5.037E+04	45	-1.17	5.037E+04	70	3.33	5.037E+04	95	7.83
-5.67	5.037E+04	46	-0.99	5.037E+04	71	3.51	5.037E+04	96	8.01
-5.49	5.037E+04	47	-0.81	5.037E+04	72	3.69	5.037E+04	97	8.19
-5.31	5.037E+04	48	-0.63	5.037E+04	73	3.87	4.585E+04	98	8.37
-5.13	5.037E+04	49	-0.45	5.037E+04	74	4.05	4.372E+04	99	8.55
-4.95	5.037E+04	50	-0.27	5.037E+04	75	4.23	4.372E+04	100	8.73
-4.77	5.037E+04	51	-0.09	5.037E+04	76	4.41	4.366E+04	101	8.91
-4.59	5.037E+04	52							

A3 COEFFICIENT FOR FLOW EQUIP.
NOT SPECIFIED (OR ARE ZERO)

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JUNC RIVER JUNC RIVER JUNC RIVER

1	-9.09	27	-4.41	1.510	52	0.09	1.510	77	4.59	1.71
2	-8.91	28	-4.23	1.510	53	0.27	1.510	78	4.77	1.81
3	-8.73	29	-4.05	1.510	54	0.45	1.510	79	4.95	1.88
4	-8.55	30	-3.87	1.510	55	0.63	1.510	80	5.13	1.95
5	-8.37	31	-3.69	1.510	56	0.81	1.510	81	5.31	1.88
6	-8.19	32	-3.51	1.510	57	0.99	1.510	82	5.49	1.66
7	-8.01	33	-3.33	1.510	58	1.17	1.510	83	5.67	1.55
8	-7.83	34	-3.15	1.510	59	1.35	1.510	84	5.85	1.66
9	-7.65	35	-2.97	1.510	60	1.53	1.510	85	6.03	1.77
0	-7.47	36	-2.79	1.510	61	1.71	1.510	86	6.21	1.88
1	-7.29	37	-2.61	1.510	62	1.89	1.510	87	6.39	1.66
2	-7.11	38	-2.43	1.510	63	2.07	1.510	88	6.57	1.46
3	-6.93	39	-2.25	1.510	64	2.25	1.510	89	6.75	1.11
4	-6.75	40	-2.07	1.510	65	2.43	1.510	90	6.93	0.88
5	-6.57	41	-1.89	1.510	66	2.61	1.510	91	7.11	0.71
6	-6.39	42	-1.71	1.510	67	2.79	1.510	92	7.29	0.71
7	-6.21	43	-1.53	1.510	68	2.97	1.510	93	7.47	0.71
8	-6.03	44	-1.35	1.510	69	3.15	1.510	94	7.65	0.71
9	-5.85	45	-1.17	1.510	70	3.33	1.510	95	7.83	0.71
0	-5.67	46	-0.99	1.510	71	3.51	1.510	96	8.01	0.71
1	-5.49	47	-0.81	1.510	72	3.69	1.510	97	8.19	0.71
2	-5.31	48	-0.63	1.510	73	3.87	1.666	98	8.37	0.71
3	-5.13	49	-0.45	1.510	74	4.05	1.736	99	8.55	0.71
4	-4.95	50	-0.27	1.510	75	4.23	1.728	100	8.73	0.71
5	-4.77	51	-0.09	1.510	76	4.41	1.723	101	8.91	0.71

34

JUNCTION WATER TEMPERATURES (DEG-C)											
ALL VALUES =	29.250										
ALL VALUES =	7.658	INPUTTED OXYGEN SATURATION CONCENTRATIONS (PPM)									
ALL VALUES =	0.000E+00	NET EVAPORATION - RAINFALL (IN/MO)									
ALL VALUES =	1.806	OXYGEN UPTAKE OF SEDIMENTS (GM O2/SQM/DAY)									
ALL VALUES =	0.153	CBOD DEOXYGENATION RATES CORRECTED TO STREAM TEMPS - (1/DAY)									
ALL VALUES =	0.025	CBOD SEDIMENTATION RATES - (1/DAY)									
ALL VALUES =	0.175	NBOD DEOXYGENATION RATES CORRECTED TO STREAM TEMPS - (1/DAY)									
ALL VALUES =	5.000E-03	NBOD SEDIMENTATION RATES - (1/DAY), 5X									
ALL VALUES =		NONPOINT SOURCE FLOW (CFS/MILE OF STREAM)									
JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE						
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	0.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.126
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.630
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.630
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.630
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.630
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.630
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.630
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.630
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.630
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.630
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.630
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.630
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.630
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.630

24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	0.630
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.630
26	-4.59	0.000									

***** NBBOD NONPOINT SOURCE CONTRIBUTION (LBSNBO/DAY/MILE OF STREAM) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	15.000	27	-4.41	15.000	52	0.09	15.000	77	4.59	14.629
2	-8.91	15.000	28	-4.23	15.000	53	0.27	15.000	78	4.77	13.888
3	-8.73	15.000	29	-4.05	15.000	54	0.45	15.000	79	4.95	13.147
4	-8.55	15.000	30	-3.87	15.000	55	0.63	15.000	80	5.13	12.406
5	-8.37	15.000	31	-3.69	15.000	56	0.81	15.000	81	5.31	11.665
6	-8.19	15.000	32	-3.51	15.000	57	0.99	15.000	82	5.49	10.924
7	-8.01	15.000	33	-3.33	15.000	58	1.17	15.000	83	5.67	10.182
8	-7.83	15.000	34	-3.15	15.000	59	1.35	15.000	84	5.85	9.441
9	-7.65	15.000	35	-2.97	15.000	60	1.53	15.000	85	6.03	8.700
10	-7.47	15.000	36	-2.79	15.000	61	1.71	15.000	86	6.21	7.400
11	-7.29	15.000	37	-2.61	15.000	62	1.89	15.000	87	6.39	5.233
12	-7.11	15.000	38	-2.43	15.000	63	2.07	15.000	88	6.57	5.533
13	-6.93	15.000	39	-2.25	15.000	64	2.25	15.000	89	6.75	5.833
14	-6.75	15.000	40	-2.07	15.000	65	2.43	15.000	90	6.93	6.133
15	-6.57	15.000	41	-1.89	15.000	66	2.61	15.000	91	7.11	6.433
16	-6.39	15.000	42	-1.71	15.000	67	2.79	15.000	92	7.29	6.733
17	-6.21	15.000	43	-1.53	15.000	68	2.97	15.000	93	7.47	7.033
18	-6.03	15.000	44	-1.35	15.000	69	3.15	15.000	94	7.65	7.333
19	-5.85	15.000	45	-1.17	15.000	70	3.33	15.000	95	7.83	7.633
20	-5.67	15.000	46	-0.99	15.000	71	3.51	15.000	96	8.01	7.933
21	-5.49	15.000	47	-0.81	15.000	72	3.69	15.000	97	8.19	8.000
22	-5.31	15.000	48	-0.63	15.000	73	3.87	15.000	98	8.37	8.000
23	-5.13	15.000	49	-0.45	15.000	74	4.05	15.000	99	8.55	8.000
24	-4.95	15.000	50	-0.27	15.000	75	4.23	15.000	100	8.73	8.000
25	-4.77	15.000	51	-0.09	15.000	76	4.41	15.000	101	8.91	8.000
26	-4.59	15.000									

***** CBOD NONPOINT SOURCE CONTRIBUTION (LBSCBOD/DAY/MILE OF STREAM) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	4.000	27	-4.41	4.000	52	0.09	4.000	77	4.59	4.000
2	-8.91	4.000	28	-4.23	4.000	53	0.27	4.000	78	4.77	4.000
3	-8.73	4.000	29	-4.05	4.000	54	0.45	4.000	79	4.95	4.000
4	-8.55	4.000	30	-3.87	4.000	55	0.63	4.000	80	5.13	4.000
5	-8.37	4.000	31	-3.69	4.000	56	0.81	4.000	81	5.31	4.000
6	-8.19	4.000	32	-3.51	4.000	57	0.99	4.000	82	5.49	4.000
7	-8.01	4.000	33	-3.33	4.000	58	1.17	4.000	83	5.67	4.000
8	-7.83	4.000	34	-3.15	4.000	59	1.35	4.000	84	5.85	4.000
9	-7.65	4.000	35	-2.97	4.000	60	1.53	4.000	85	6.03	4.000
10	-7.47	4.000	36	-2.79	4.000	61	1.71	4.000	86	6.21	4.400
11	-7.29	4.000	37	-2.61	4.000	62	1.89	4.000	87	6.39	6.000
12	-7.11	4.000	38	-2.43	4.000	63	2.07	4.000	88	6.57	6.000

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13	-6.93	4,000	39	-2.25	4,000	64	2.25	4,000	89	6.75	6,000
14	-6.75	4,000	40	-2.07	4,000	65	2.43	4,000	90	6.93	6,000
15	-6.57	4,000	41	-1.89	4,000	66	2.61	4,000	91	7.11	6,000
16	-6.39	4,000	42	-1.71	4,000	67	2.79	4,000	92	7.29	6,000
17	-6.21	4,000	43	-1.53	4,000	68	2.97	4,000	93	7.47	6,000
18	-6.03	4,000	44	-1.35	4,000	69	3.15	4,000	94	7.65	6,000
19	-5.85	4,000	45	-1.17	4,000	70	3.33	4,000	95	7.83	6,000
20	-5.67	4,000	46	-0.99	4,000	71	3.51	4,000	96	8.01	6,000
21	-5.49	4,000	47	-0.81	4,000	72	3.69	4,000	97	8.19	6,000
22	-5.31	4,000	48	-0.63	4,000	73	3.87	4,000	98	8.37	6,000
23	-5.13	4,000	49	-0.45	4,000	74	4.05	4,000	99	8.55	6,000
24	-4.95	4,000	50	-0.27	4,000	75	4.23	4,000	100	8.73	6,000
25	-4.77	4,000	51	-0.09	4,000	76	4.41	4,000	101	8.91	6,000
26	-4.59	4,000									

***** 02 NONPOINT SOURCE CONTRIBUTIONS (LBS O2/DAY/MILE OF STREAM) *****

JUNC NO	RIVER MILE	RIVER VALUE	JUNC NO	RIVER MILE	RIVER VALUE	JUNC NO	RIVER MILE	RIVER VALUE		
1	-9.09	0,000	27	-4.41	0,000	52	0.09	0,000		
2	-8.91	0,000	28	-4.23	0,000	53	0.27	0,000		
3	-8.73	0,000	29	-4.05	0,000	54	0.45	0,000		
4	-8.55	0,000	30	-3.87	0,000	55	0.63	0,000		
5	-8.37	0,000	31	-3.69	0,000	56	0.81	0,000		
6	-8.19	0,000	32	-3.51	0,000	57	0.99	0,000		
7	-8.01	0,000	33	-3.33	0,000	58	1.17	0,000		
8	-7.83	0,000	34	-3.15	0,000	59	1.35	0,000		
9	-7.65	0,000	35	-2.97	0,000	60	1.53	0,000		
10	-7.47	0,000	36	-2.79	0,000	61	1.71	0,000		
11	-7.29	0,000	37	-2.61	0,000	62	1.89	0,000		
12	-7.11	0,000	38	-2.43	0,000	63	2.07	0,000		
13	-6.93	0,000	39	-2.25	0,000	64	2.25	0,000		
14	-6.75	0,000	40	-2.07	0,000	65	2.43	0,000		
15	-6.57	0,000	41	-1.89	0,000	66	2.61	0,000		
16	-6.39	0,000	42	-1.71	0,000	67	2.79	0,000		
17	-6.21	0,000	43	-1.53	0,000	68	2.97	0,000		
18	-6.03	0,000	44	-1.35	0,000	69	3.15	0,000		
19	-5.85	0,000	45	-1.17	0,000	70	3.33	0,000		
20	-5.67	0,000	46	-0.99	0,000	71	3.51	0,000		
21	-5.49	0,000	47	-0.81	0,000	72	3.69	0,000		
22	-5.31	0,000	48	-0.63	0,000	73	3.87	0,000		
23	-5.13	0,000	49	-0.45	0,000	74	4.05	0,000		
24	-4.95	0,000	50	-0.27	0,000	75	4.23	0,000		
25	-4.77	0,000	51	-0.09	0,000	76	4.41	0,000		
26	-4.59	0,000								

***** DISPERSION COEFFICIENTS (SQFT/SEC) *****

ALL VALUES = 0.000E+00

***** AVERAGE DAILY PHOTOSYNTHESIS-RESPIRATION RATE (GM O2/SQM/DAY) CORRECTED TO STREAM TEMPERATURES *****
ALL VALUES = 0.000E+00

CROSSECTIONAL AREAS OF JUNCT*NS (SQFT)								
JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	80.030	27	-4.41	80.030	52	0.09	80.030
2	-8.91	80.030	28	-4.23	80.030	53	0.27	80.030
3	-8.73	80.030	29	-4.05	80.030	54	0.45	80.030
4	-8.55	80.030	30	-3.87	80.030	55	0.63	80.030
5	-8.37	80.030	31	-3.69	80.030	56	0.81	80.030
6	-8.19	80.030	32	-3.51	80.030	57	0.99	80.030
7	-8.01	80.030	33	-3.33	80.030	58	1.17	80.030
8	-7.83	80.030	34	-3.15	80.030	59	1.35	80.030
9	-7.65	80.030	35	-2.97	80.030	60	1.53	80.030
10	-7.47	80.030	36	-2.79	80.030	61	1.71	80.030
11	-7.29	80.030	37	-2.61	80.030	62	1.89	80.030
12	-7.11	80.030	38	-2.43	80.030	63	2.07	80.030
13	-6.93	80.030	39	-2.25	80.030	64	2.25	80.030
14	-6.75	80.030	40	-2.07	80.030	65	2.43	80.030
15	-6.57	80.030	41	-1.89	80.030	66	2.61	80.030
16	-6.39	80.030	42	-1.71	80.030	67	2.79	80.030
17	-6.21	80.030	43	-1.53	80.030	68	2.97	80.030
18	-6.03	80.030	44	-1.35	80.030	69	3.15	80.030
19	-5.85	80.030	45	-1.17	80.030	70	3.33	80.030
20	-5.67	80.030	46	-0.99	80.030	71	3.51	80.030
21	-5.49	80.030	47	-0.81	80.030	72	3.69	80.030
22	-5.31	80.030	48	-0.63	80.030	73	3.87	80.030
23	-5.13	80.030	49	-0.45	80.030	74	4.05	79.836
24	-4.95	80.030	50	-0.27	80.030	75	4.23	79.468
25	-4.77	80.030	51	-0.09	80.030	76	4.41	79.133
26	-4.59	80.030						101
JUNCT*N DEPTHS (FT)								
JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	1.510	27	-4.41	1.510	52	0.09	1.510
2	-8.91	1.510	28	-4.23	1.510	53	0.27	1.510
3	-8.73	1.510	29	-4.05	1.510	54	0.45	1.510
4	-8.55	1.510	30	-3.87	1.510	55	0.63	1.510
5	-8.37	1.510	31	-3.69	1.510	56	0.81	1.510
6	-8.19	1.510	32	-3.51	1.510	57	0.99	1.510
7	-8.01	1.510	33	-3.33	1.510	58	1.17	1.510
8	-7.83	1.510	34	-3.15	1.510	59	1.35	1.510
9	-7.65	1.510	35	-2.97	1.510	60	1.53	1.510
10	-7.47	1.510	36	-2.79	1.510	61	1.71	1.510

1.11	-7.29	1.510	37	-2.61	1.510	62	1.89	6.39
1.12	-7.11	1.510	38	-2.43	1.510	63	2.07	6.57
1.13	-6.93	1.510	39	-2.25	1.510	64	2.25	6.57
1.14	-6.75	1.510	40	-2.07	1.510	65	2.43	6.75
1.15	-6.57	1.510	41	-1.89	1.510	66	2.61	6.93
1.16	-6.39	1.510	42	-1.71	1.510	67	2.79	0.827
1.17	-6.21	1.510	43	-1.53	1.510	68	2.97	0.827
1.18	-6.03	1.510	44	-1.35	1.510	69	3.15	0.827
1.19	-5.85	1.510	45	-1.17	1.510	70	3.33	0.827
1.20	-5.67	1.510	46	-0.99	1.510	71	3.51	0.827
1.21	-5.49	1.510	47	-0.81	1.510	72	3.69	0.827
1.22	-5.31	1.510	48	-0.63	1.510	73	3.87	0.827
1.23	-5.13	1.510	49	-0.45	1.510	74	4.05	0.827
1.24	-4.95	1.510	50	-0.27	1.510	75	4.23	0.827
1.25	-4.77	1.510	51	-0.09	1.510	76	4.41	0.827
1.26	-4.59	1.510	52					0.91

JUNCT**N VELOCITIES (FT/SEC) ****

RIVER	JUNC								
MILE	NO								
MILE	VALUE								
-9.09	0.078	-4.41	0.078	-4.23	0.078	-4.05	0.078	-3.87	0.078
-8.91	0.078	-4.23	0.078	-4.05	0.078	-3.87	0.078	-3.69	0.078
-8.73	0.078	-4.05	0.078	-3.87	0.078	-3.69	0.078	-3.51	0.078
-8.55	0.078	-3.87	0.078	-3.69	0.078	-3.51	0.078	-3.33	0.078
-8.37	0.078	-3.69	0.078	-3.51	0.078	-3.33	0.078	-3.15	0.078
-8.19	0.078	-3.51	0.078	-3.33	0.078	-3.15	0.078	-2.97	0.078
-8.01	0.078	-3.33	0.078	-3.15	0.078	-2.97	0.078	-2.79	0.078
-7.83	0.078	-3.15	0.078	-2.97	0.078	-2.79	0.078	-2.61	0.078
-7.65	0.078	-2.97	0.078	-2.79	0.078	-2.61	0.078	-2.43	0.078
-7.47	0.078	-2.79	0.078	-2.61	0.078	-2.43	0.078	-2.25	0.078
-7.29	0.078	-2.61	0.078	-2.43	0.078	-2.25	0.078	-2.07	0.078
-7.11	0.078	-2.43	0.078	-2.25	0.078	-2.07	0.078	-1.89	0.078
-6.93	0.078	-2.25	0.078	-2.07	0.078	-1.89	0.078	-1.71	0.078
-6.75	0.078	-2.07	0.078	-1.89	0.078	-1.71	0.078	-1.53	0.078
-6.57	0.078	-1.89	0.078	-1.71	0.078	-1.53	0.078	-1.35	0.078
-6.39	0.078	-1.71	0.078	-1.53	0.078	-1.35	0.078	-1.17	0.078
-6.21	0.078	-1.53	0.078	-1.35	0.078	-1.17	0.078	-0.98	0.078
-6.03	0.078	-1.35	0.078	-1.17	0.078	-0.98	0.078	-0.80	0.078
-5.85	0.078	-1.17	0.078	-0.98	0.078	-0.80	0.078	-0.62	0.078
-5.67	0.078	-0.98	0.078	-0.80	0.078	-0.62	0.078	-0.44	0.078
-5.49	0.078	-0.81	0.078	-0.62	0.078	-0.44	0.078	-0.26	0.078
-5.31	0.078	-0.63	0.078	-0.45	0.078	-0.26	0.078	-0.08	0.078
-5.13	0.078	-0.45	0.078	-0.27	0.078	-0.08	0.078	-0.00	0.078
-4.95	0.078	-0.27	0.078	-0.09	0.078	-0.00	0.078	-0.00	0.078
-4.77	0.078	-0.09	0.078	-0.00	0.078	-0.00	0.078	-0.00	0.078
-4.59	0.078	-0.00	0.078	-0.00	0.078	-0.00	0.078	-0.00	0.078

JUNCTION VOLTMETERS (SCUT)

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WIND INDUCED REAERATION WAS USED FOR THE FOLLOW SEGMENTS			
NO	MILE	VALUE	MILE
1	-9.09	7.606E+04	2.7
2	-8.91	7.606E+04	2.8
3	-8.73	7.606E+04	2.9
4	-8.55	7.606E+04	3.0
5	-8.37	7.606E+04	3.1
6	-8.19	7.606E+04	3.2
7	-8.01	7.606E+04	3.3
8	-7.83	7.606E+04	3.4
9	-7.65	7.606E+04	3.5
10	-7.47	7.606E+04	3.6
11	-7.29	7.606E+04	3.7
12	-7.11	7.606E+04	3.8
13	-6.93	7.606E+04	3.9
14	-6.75	7.606E+04	4.0
15	-6.57	7.606E+04	4.1
16	-6.39	7.606E+04	4.2
17	-6.21	7.606E+04	4.3
18	-6.03	7.606E+04	4.4
19	-5.85	7.606E+04	4.5
20	-5.67	7.606E+04	4.6
21	-5.49	7.606E+04	4.7
22	-5.31	7.606E+04	4.8
23	-5.13	7.606E+04	4.9
24	-4.95	7.606E+04	5.0
25	-4.77	7.606E+04	5.1
26	-4.59	7.606E+04	
NO	MILE	VALUE	MILE
31	32	33	34
61	62	63	64
91	92	93	94
1	-9.09	1.567	2.7
2	-8.91	1.567	2.8
3	-8.73	1.567	2.9
4	-8.55	1.567	3.0
5	-8.37	1.567	3.1
6	-8.19	1.567	3.2
7	-8.01	1.567	3.3
8	-7.83	1.567	3.4
9	-7.65	1.567	3.5
10	-7.47	1.567	3.6
11	-7.29	1.567	3.7
12	-7.11	1.567	3.8
NO	MILE	VALUE	MILE
52	-4.41	0.09	53
53	-4.23	0.27	54
54	-4.05	0.45	55
55	-3.87	0.63	56
56	-3.69	0.81	57
57	-3.51	0.99	58
58	-3.33	1.17	59
59	-3.15	1.35	60
60	-2.97	1.53	61
61	-2.79	1.71	62
62	-2.61	1.89	63
63	-2.43	2.07	64
64	-2.25	2.25	65
65	-2.07	2.43	66
66	-1.89	2.61	67
67	-1.71	2.79	68
68	-1.53	2.97	69
69	-1.35	3.15	70
70	-1.17	3.33	71
71	-0.99	3.51	72
72	-0.81	3.69	73
73	-0.63	3.87	74
74	-0.45	4.05	75
75	-0.27	4.23	76
76	-0.09	4.41	77
77	0.09	4.41	78
78	0.27	4.41	79
79	0.45	4.41	80
80	0.63	4.41	81
81	0.81	4.41	82
82	0.99	4.41	83
83	1.17	4.41	84
84	1.35	4.41	85
85	1.53	4.41	86
86	1.71	4.41	87
87	1.89	4.41	88
88	2.07	4.41	89
89	2.25	4.41	90
90	2.43	4.41	91
91	2.61	4.41	92
92	2.79	4.41	93
93	2.97	4.41	94
94	3.15	4.41	95
95	3.33	4.41	96
96	3.51	4.41	97
97	3.69	4.41	98
98	3.87	4.41	99
99	4.05	4.41	100
100	4.23	4.41	101
101	4.41	4.41	

*****ISAACS AND GAUDY CORRELATION COMPUTED REAERATION RATES (1/DAY)*****

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	1.567	27	-4.41	1.567	52	0.09	1.567
2	-8.91	1.567	28	-4.23	1.567	53	0.27	1.567
3	-8.73	1.567	29	-4.05	1.567	54	0.45	1.567
4	-8.55	1.567	30	-3.87	1.567	55	0.63	1.567
5	-8.37	1.567	31	-3.69	1.567	56	0.81	1.567
6	-8.19	1.567	32	-3.51	1.567	57	0.99	1.567
7	-8.01	1.567	33	-3.33	1.567	58	1.17	1.567
8	-7.83	1.567	34	-3.15	1.567	59	1.35	1.567
9	-7.65	1.567	35	-2.97	1.567	60	1.53	1.567
10	-7.47	1.567	36	-2.79	1.567	61	1.71	1.567
11	-7.29	1.567	37	-2.61	1.567	62	1.89	1.567
12	-7.11	1.567	38	-2.43	1.567	63	2.07	1.567

13	-6.93	1.567	39	-2.25	1.567	64	2.25	1.567	89	6.75
14	-6.75	1.567	40	-2.07	1.567	65	2.43	1.567	90	6.93
15	-6.57	1.567	41	-1.89	1.567	66	2.61	1.567	91	7.11
16	-6.39	1.567	42	-1.71	1.567	67	2.79	1.567	92	7.29
17	-6.21	1.567	43	-1.53	1.567	68	2.97	1.567	93	7.47
18	-6.03	1.567	44	-1.35	1.567	69	3.15	1.567	94	7.65
19	-5.85	1.567	45	-1.17	1.567	70	3.33	1.567	95	7.83
20	-5.67	1.567	46	-0.99	1.567	71	3.51	1.567	96	8.01
21	-5.49	1.567	47	-0.81	1.567	72	3.69	1.567	97	8.19
22	-5.31	1.567	48	-0.63	1.567	73	3.87	1.420	98	8.37
23	-5.13	1.567	49	-0.45	1.567	74	4.05	1.363	99	8.55
24	-4.95	1.567	50	-0.27	1.567	75	4.23	1.370	100	8.73
25	-4.77	1.567	51	-0.09	1.567	76	4.41	1.374	101	8.91
26	-4.59	1.567								

STEADY STATE FLOW CONDITIONS

TOTAL INFLOWS = 6.3 CFS
 TOTAL DIVERIONS = 0.0 CFS
 OUTFLOW AT DOWNSTREAM JUNCTION = 6.3 CFS

POINT SOURCE INFLOWS (CFS)

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000
26	-4.59	0.000						

NONPOINT SOURCE INFLOWS (CFS) (EXCLUDING RAINFALL)

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000

***** POINT DIVERSIONS (CFS) *****				***** JUNC NO *****				***** RIVER MILE *****				***** JUNC NO *****				
JUNC NO	RIVER MILE	VALUE	RIVER MILE	JUNC NO	RIVER MILE	VALUE	RIVER MILE	JUNC NO	RIVER MILE	VALUE	RIVER MILE	JUNC NO	RIVER MILE	VALUE	RIVER MILE	
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000	33	-3.33	0.000	84	5.85
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	0.000	34	-3.15	0.000	85	6.03
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000	35	-2.97	0.000	86	6.21
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.023	36	-2.79	0.000	87	6.39
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.113	37	-2.61	0.000	88	6.57
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.113	38	-2.43	0.000	89	6.75
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.113	39	-2.25	0.000	90	6.93
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.113	40	-2.07	0.000	91	7.11
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.113	41	-1.89	0.000	92	7.29
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.113	42	-1.71	0.000	93	7.47
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.113	43	-1.53	0.000	94	7.65
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.113	44	-1.35	0.000	95	7.83
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.113	45	-1.17	0.000	96	8.01
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.113	46	-0.99	0.000	97	8.19
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.113	47	-0.81	0.000	98	8.37
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	99	8.55	0.113	48	-0.63	0.000	100	8.73
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	100	8.73	0.113	49	-0.45	0.000	101	8.91
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	101	8.91	0.113	50	-0.27	0.000	102	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	102	0.000	0.000	51	-0.09	0.000	103	0.000
26	-4.59	0.000										26	-4.59	0.000		

ALL VALUES = 0.000E+00

NONPOINT DIVERSIONS OR LOSSES (CFS) (EXCLUDING EVAPORATION)

JUNCT*N FLOWS (CFS)

JUNC	RIVER	MILE	VALUE	JUNC	RIVER	MILE	VALUE	JUNC	RIVER	MILE	VALUE	JUNC	RIVER	MILE	VALUE
1	-9.09	-6.265	27	-4.41	-6.265	52	0.09	-6.265	77	4.59	-6.091				
2	-8.91	-6.265	28	-4.23	-6.265	53	0.27	-6.265	78	4.77	-6.091				
3	-8.73	-6.265	29	-4.05	-6.265	54	0.45	-6.265	79	4.95	-6.091				
4	-8.55	-6.265	30	-3.87	-6.265	55	0.63	-6.265	80	5.13	-6.091				
5	-8.37	-6.265	31	-3.69	-6.265	56	0.81	-6.265	81	5.31	-6.091				
6	-8.19	-6.265	32	-3.51	-6.265	57	0.99	-6.265	82	5.49	-6.091				
7	-8.01	-6.265	33	-3.33	-6.265	58	1.17	-6.265	83	5.67	-6.091				
8	-7.83	-6.265	34	-3.15	-6.265	59	1.35	-6.265	84	5.85	-5.512				
9	-7.65	-6.265	35	-2.97	-6.265	60	1.53	-6.265	85	6.03	-5.512				
10	-7.47	-6.265	36	-2.79	-6.265	61	1.71	-6.265	86	6.21	-5.489				
11	-7.29	-6.265	37	-2.61	-6.265	62	1.89	-6.265	87	6.39	-5.376				
12	-7.11	-6.265	38	-2.43	-6.265	63	2.07	-6.265	88	6.57	-5.262				
13	-6.93	-6.265	39	-2.25	-6.265	64	2.25	-6.265	89	6.75	-5.149				
14	-6.75	-6.265	40	-2.07	-6.265	65	2.43	-6.265	90	6.93	-5.035				
15	-6.57	-6.265	41	-1.89	-6.265	66	2.61	-6.265	91	7.11	-4.922				
16	-6.39	-6.265	42	-1.71	-6.265	67	2.79	-6.265	92	7.29	-4.809				
17	-6.21	-6.265	43	-1.53	-6.265	68	2.97	-6.265	93	7.47	-4.695				
18	-6.03	-6.265	44	-1.35	-6.265	69	3.15	-6.265	94	7.65	-4.582				
19	-5.85	-6.265	45	-1.17	-6.265	70	3.33	-6.265	95	7.83	-4.129				
20	-5.67	-6.265	46	-0.99	-6.265	71	3.51	-6.265	96	8.01	-4.016				
21	-5.49	-6.265	47	-0.81	-6.265	72	3.69	-6.265	97	8.19	-3.903				
22	-5.31	-6.265	48	-0.63	-6.265	73	3.87	-6.265	98	8.37	-3.789				
23	-5.13	-6.265	49	-0.45	-6.265	74	4.05	-6.265	99	8.55	-3.676				
24	-4.95	-6.265	50	-0.27	-6.265	75	4.23	-6.091	100	8.73	-3.562				
25	-4.77	-6.265	51	-0.09	-6.265	76	4.41	-6.091	101	8.91	-3.449				
26	-4.59	-6.265													

RESIDENCE TIME (DAYS)

JUNC	RIVER	MILE	VALUE	JUNC	RIVER	MILE	VALUE	JUNC	RIVER	MILE	VALUE	JUNC	RIVER	MILE	VALUE
1	-9.09	13.623	27	-4.41	9.969	52	0.09	6.456	77	4.59	2.937				
2	-8.91	13.482	28	-4.23	9.829	53	0.27	6.316	78	4.77	2.794				
3	-8.73	13.342	29	-4.05	9.688	54	0.45	6.175	79	4.95	2.651				
4	-8.55	13.201	30	-3.87	9.548	55	0.63	6.035	80	5.13	2.507				
5	-8.37	13.061	31	-3.69	9.407	56	0.81	5.994	81	5.31	2.364				
6	-8.19	12.920	32	-3.51	9.267	57	0.99	5.754	82	5.49	2.220				
7	-8.01	12.780	33	-3.33	9.126	58	1.17	5.613	83	5.67	2.075				
8	-7.83	12.639	34	-3.15	8.986	59	1.35	5.473	84	5.85	1.933				
9	-7.65	12.499	35	-2.97	8.845	60	1.53	5.332	85	6.03	1.786				
10	-7.47	12.358	36	-2.79	8.705	61	1.71	5.191	86	6.21	1.651				
11	-7.29	12.218	37	-2.61	8.564	62	1.89	5.051	87	6.39	1.532				
12	-7.11	12.077	38	-2.43	8.423	63	2.07	4.910	88	6.57	1.414				
13	-6.93	11.937	39	-2.25	8.283	64	2.25	4.770	89	6.75	1.298				

14	-6.75	11.796	4.0	-2.07	8.142	65	2.43	4.629	90	6.93
15	-6.57	11.656	4.1	-1.89	8.002	66	2.61	4.489	91	7.11
16	-6.39	11.515	4.2	-1.71	7.861	67	2.79	4.348	92	7.29
17	-6.21	11.374	4.3	-1.53	7.721	68	2.97	4.208	93	7.47
18	-6.03	11.234	4.4	-1.35	7.580	69	3.15	4.067	94	7.65
19	-5.85	11.093	4.5	-1.17	7.440	70	3.33	3.927	95	7.83
20	-5.67	10.953	4.6	-0.99	7.299	71	3.51	3.786	96	8.01
21	-5.49	10.812	4.7	-0.81	7.159	72	3.69	3.646	97	8.19
22	-5.31	10.672	4.8	-0.63	7.018	73	3.87	3.505	98	8.37
23	-5.13	10.531	4.9	-0.45	6.878	74	4.05	3.364	99	8.55
24	-4.95	10.391	5.0	-0.27	6.737	75	4.23	3.224	100	8.73
25	-4.77	10.250	5.1	-0.09	6.597	76	4.41	3.080	101	8.91
26	-4.59	10.110						0.233		0.118

STEADY STATE NBOD INPUT CONDITIONS

***** POINT SOURCE INFLOW CONCENTRATIONS (PPM) *****

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	21.500
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	21.500
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	21.500	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	8.770
26	-4.59	0.000									

***** NONPOINT SOURCE LOADS (LBS/DAY) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	2.700	27	-4.41	2.700	52	0.09	2.700	77	4.59	2.633
2	-8.91	2.700	28	-4.23	2.700	53	0.27	2.700	78	4.77	2.500
3	-8.73	2.700	29	-4.05	2.700	54	0.45	2.700	79	4.95	2.366
4	-8.55	2.700	30	-3.87	2.700	55	0.63	2.700	80	5.13	2.233
5	-8.37	2.700	31	-3.69	2.700	56	0.81	2.700	81	5.31	2.100
6	-8.19	2.700	32	-3.51	2.700	57	0.99	2.700	82	5.49	1.966

7	-8.01	2.700	33	-3.33	2.700	58	1.17	2.700	83	5.67
8	-7.83	2.700	34	-3.15	2.700	59	1.35	2.700	84	5.85
9	-7.65	2.700	35	-2.97	2.700	60	1.53	2.700	85	6.03
10	-7.47	2.700	36	-2.79	2.700	61	1.71	2.700	86	6.21
11	-7.29	2.700	37	-2.61	2.700	62	1.89	2.700	87	6.39
12	-7.11	2.700	38	-2.43	2.700	63	2.07	2.700	88	6.57
13	-6.93	2.700	39	-2.25	2.700	64	2.25	2.700	89	6.75
14	-6.75	2.700	40	-2.07	2.700	65	2.43	2.700	90	6.93
15	-6.57	2.700	41	-1.89	2.700	66	2.61	2.700	91	7.11
16	-6.39	2.700	42	-1.71	2.700	67	2.79	2.700	92	7.29
17	-6.21	2.700	43	-1.53	2.700	68	2.97	2.700	93	7.47
18	-6.03	2.700	44	-1.35	2.700	69	3.15	2.700	94	7.65
19	-5.85	2.700	45	-1.17	2.700	70	3.33	2.700	95	7.83
20	-5.67	2.700	46	-0.99	2.700	71	3.51	2.700	96	8.01
21	-5.49	2.700	47	-0.81	2.700	72	3.69	2.700	97	8.19
22	-5.31	2.700	48	-0.63	2.700	73	3.87	2.700	98	8.37
23	-5.13	2.700	49	-0.45	2.700	74	4.05	2.700	99	8.55
24	-4.95	2.700	50	-0.27	2.700	75	4.23	2.700	100	8.73
25	-4.77	2.700	51	-0.09	2.700	76	4.41	2.700	101	8.91
26	-4.59	2.700								

Red Chute Bayou TMDL 10/05 treatment 2 effluent DO
 STEADY STATE NBOD CONCENTRATIONS (PPM)
 OUTFLOW AT DOWNSTREAM END = 6.3 CFS

CONCENTRATIONS (PPM)					
JUNC NO	RIVER MILE				
	VALUE	NO	NO	NO	NO
1	-9.09	3.717	-4.41	4.219	52
2	-8.91	3.731	-4.23	4.246	53
3	-8.73	3.746	-4.05	4.273	54
4	-8.55	3.760	-3.87	4.301	55
5	-8.37	3.775	-3.69	4.329	56
6	-8.19	3.790	-3.51	4.359	57
7	-8.01	3.806	-3.33	4.389	58
8	-7.83	3.822	-3.15	4.420	59
9	-7.65	3.839	-2.97	4.451	60
10	-7.47	3.856	-2.79	4.484	61
11	-7.29	3.873	-2.61	4.517	62
12	-7.11	3.891	-2.43	4.551	63
13	-6.93	3.909	-2.25	4.586	64
14	-6.75	3.928	-2.07	4.621	65
15	-6.57	3.947	-1.89	4.658	66
16	-6.39	3.967	-1.71	4.696	67
17	-6.21	3.987	-1.53	4.734	68
18	-6.03	4.008	-1.35	4.774	69
19	-5.85	4.029	-1.17	4.814	70
20	-5.67	4.051	-0.99	4.856	71
21	-5.49	4.073	-0.81	4.899	72
22	-5.31	4.096	-0.63	4.942	73
23	-5.13	4.119	-0.45	4.987	74
24	-4.95	4.143	-0.27	5.033	75
25	-4.77	4.168	-0.09	5.080	76
26	-4.59	4.193			

STEADY STATE CBOD INPUT CONDITIONS

***** POINT SOURCE INFLOW CONCENTRATIONS (PPM) *****

JUNC	RIVER MILE	VALUE	JUNC	RIVER MILE	VALUE	JUNC	RIVER MILE	VALUE	JUNC	RIVER MILE	VALUE
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	23.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	23.000
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	23.000	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	4.550
26	-4.59	0.000									

***** NONPOINT SOURCE LOADS (LBS/DAY) *****

JUNC	RIVER MILE	VALUE									
1	-9.09	0.720	27	-4.41	0.720	52	0.09	0.720	77	4.59	0.720
2	-8.91	0.720	28	-4.23	0.720	53	0.27	0.720	78	4.77	0.720
3	-8.73	0.720	29	-4.05	0.720	54	0.45	0.720	79	4.95	0.720
4	-8.55	0.720	30	-3.87	0.720	55	0.63	0.720	80	5.13	0.720
5	-8.37	0.720	31	-3.69	0.720	56	0.81	0.720	81	5.31	0.720
6	-8.19	0.720	32	-3.51	0.720	57	0.99	0.720	82	5.49	0.720

7	-8.01	0.720	33	-3.33	0.720	58	1.17	0.720	83	5.67	0.720
8	-7.83	0.720	34	-3.15	0.720	59	1.35	0.720	84	5.85	0.720
9	-7.65	0.720	35	-2.97	0.720	60	1.53	0.720	85	6.03	0.720
10	-7.47	0.720	36	-2.79	0.720	61	1.71	0.720	86	6.21	0.792
11	-7.29	0.720	37	-2.61	0.720	62	1.89	0.720	87	6.39	1.080
12	-7.11	0.720	38	-2.43	0.720	63	2.07	0.720	88	6.57	1.080
13	-6.93	0.720	39	-2.25	0.720	64	2.25	0.720	89	6.75	1.080
14	-6.75	0.720	40	-2.07	0.720	65	2.43	0.720	90	6.93	1.080
15	-6.57	0.720	41	-1.89	0.720	66	2.61	0.720	91	7.11	1.080
16	-6.39	0.720	42	-1.71	0.720	67	2.79	0.720	92	7.29	1.080
17	-6.21	0.720	43	-1.53	0.720	68	2.97	0.720	93	7.47	1.080
18	-6.03	0.720	44	-1.35	0.720	69	3.15	0.720	94	7.65	1.080
19	-5.85	0.720	45	-1.17	0.720	70	3.33	0.720	95	7.83	1.080
20	-5.67	0.720	46	-0.99	0.720	71	3.51	0.720	96	8.01	1.080
21	-5.49	0.720	47	-0.81	0.720	72	3.69	0.720	97	8.19	1.080
22	-5.31	0.720	48	-0.63	0.720	73	3.87	0.720	98	8.37	1.080
23	-5.13	0.720	49	-0.45	0.720	74	4.05	0.720	99	8.55	1.080
24	-4.95	0.720	50	-0.27	0.720	75	4.23	0.720	100	8.73	1.080
25	-4.77	0.720	51	-0.09	0.720	76	4.41	0.720	101	8.91	1.080
26	-4.59	0.720									

Red Chute Bayou TMDL 10/05 treatment 2 effluent DO
 STEADY STATE CBOD CONCENTRATIONS (PPM)
 OUTFLOW AT DOWNSTREAM END = 6.3 CFS

CONCENTRATIONS (PPM)					
JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO	RIVER MILE
1	-9.09	1.527	-4.41	2.134	0.09
2	-8.91	1.544	-4.23	2.166	53
3	-8.73	1.561	-4.05	2.199	54
4	-8.55	1.579	-3.87	2.233	55
5	-8.37	1.597	-3.69	2.267	56
6	-8.19	1.615	-3.51	2.303	57
7	-8.01	1.634	-3.33	2.339	58
8	-7.83	1.654	-3.15	2.376	59
9	-7.65	1.674	-2.97	2.414	60
10	-7.47	1.695	-2.79	2.453	61
11	-7.29	1.716	-2.61	2.493	62
12	-7.11	1.737	-2.43	2.534	63
13	-6.93	1.759	-2.25	2.576	64
14	-6.75	1.782	-2.07	2.619	65
15	-6.57	1.805	-1.89	2.664	66
16	-6.39	1.829	-1.71	2.709	67
17	-6.21	1.854	-1.53	2.755	68
18	-6.03	1.879	-1.35	2.803	69
19	-5.85	1.904	-1.17	2.852	70
20	-5.67	1.931	-0.99	2.902	71
21	-5.49	1.958	-0.81	2.953	72
22	-5.31	1.985	-0.63	3.005	73
23	-5.13	2.014	-0.45	3.059	74
24	-4.95	2.043	-0.27	3.114	75
25	-4.77	2.072	51	-0.09	3.171
26	-4.59	2.103			76

***** STEADY STATE DO INPUT CONDITIONS *****

***** POINT SOURCE INFLOW CONCENTRATIONS (PPM) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	2.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	2.000
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	2.000	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	3.700
26	-4.59	0.000									

***** NONPOINT SOURCE LOADS (LBS/DAY) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000

7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.93	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	0.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.133
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.666
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.666
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.666
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.666
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.666
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.666
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.666
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.666
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.666
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.666
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.666
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.666
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.666
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	0.666
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.666
26	-4.59	0.000									

**** Red Chute Bayou TMDL 10/05 treatment 2 effluent DO
 **** STEADY STATE DO CONCENTRATIONS (PPM)
 **** OUTFLOW AT DOWNSTREAM END = 6.3 CFS

CONCENTRATIONS (PPM)

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	4.574	27	-4.41	4.444	52	0.09	4.207
2	-8.91	4.571	28	-4.23	4.437	53	0.27	4.194
3	-8.73	4.567	29	-4.05	4.430	54	0.45	4.181
4	-8.55	4.563	30	-3.87	4.423	55	0.63	4.167
5	-8.37	4.559	31	-3.69	4.416	56	0.81	4.152
6	-8.19	4.555	32	-3.51	4.408	57	0.99	4.137
7	-8.01	4.551	33	-3.33	4.400	58	1.17	4.121
8	-7.83	4.547	34	-3.15	4.392	59	1.35	4.105
9	-7.65	4.543	35	-2.97	4.384	60	1.53	4.088
10	-7.47	4.538	36	-2.79	4.376	61	1.71	4.071
11	-7.29	4.534	37	-2.61	4.367	62	1.89	4.052
12	-7.11	4.529	38	-2.43	4.358	63	2.07	4.033
13	-6.93	4.524	39	-2.25	4.349	64	2.25	4.012
14	-6.75	4.520	40	-2.07	4.340	65	2.43	3.991
15	-6.57	4.515	41	-1.89	4.330	66	2.61	3.967
16	-6.39	4.509	42	-1.71	4.321	67	2.79	3.943
17	-6.21	4.504	43	-1.53	4.311	68	2.97	3.916
18	-6.03	4.499	44	-1.35	4.300	69	3.15	3.887
19	-5.85	4.493	45	-1.17	4.290	70	3.33	3.855
20	-5.67	4.488	46	-0.99	4.279	71	3.51	3.820
21	-5.49	4.482	47	-0.81	4.268	72	3.69	3.781
22	-5.31	4.476	48	-0.63	4.256	73	3.87	3.738
23	-5.13	4.470	49	-0.45	4.245	74	4.05	3.718
24	-4.95	4.464	50	-0.27	4.233	75	4.23	3.710
25	-4.77	4.457	51	-0.09	4.220	76	4.41	3.753
26	-4.59	4.451						101

Table 9 Summer TMDL Output Data - 10/05/5

LaDEQ 1.03

 LLL III MMM MNNN NNNN NNN NNNN
 LLL III MMMM MNNNN NNNNN NNN NNNNN
 LLL III MMMMM MNNNNNN NNNNNNN NNN NNNNNNN
 LLL III MMMM MM
 LLL III MMMM MM
 LLL III MMMM MM
 LLL III MMMM MM
 LLL III MMMM MM
 LLL III MMMM MM
 LLL III MMMM MM
 LLL III MMMM MM
 LLL III MMMM MM

 STEADY STATE WATER QUALITY MODEL
 RUN TITLE.....Red Chute Bayou TMDL 10/05 treatment 5 effluent DO
 BASIC NETWORK DATA
 RIVER MILE AT DOWNSTREAM END... -9.00
 RIVER MILE AT UPSTREAM END.... 9.00
 RIVER MILE OF FALL LINE..... 0.00
 NUMBER OF SECTIONS..... 100

 18-OCT-94
 13:34:57

ESTUARY / STREAM INPUT DATA

JUNCTN WIDTHS (FT)

JUNC NO	RIVER MILE	VALUE									
1	-9.09	53.000	27	-4.41	53.000	52	0.09	53.000	77	4.59	44.813
2	-8.91	53.000	28	-4.23	53.000	53	0.27	53.000	78	4.77	43.688
3	-8.73	53.000	29	-4.05	53.000	54	0.45	53.000	79	4.95	42.563
4	-8.55	53.000	30	-3.87	53.000	55	0.63	53.000	80	5.13	41.438
5	-8.37	53.000	31	-3.69	53.000	56	0.81	53.000	81	5.31	43.689
6	-8.19	53.000	32	-3.51	53.000	57	0.99	53.000	82	5.49	48.089
7	-8.01	53.000	33	-3.33	53.000	58	1.17	53.000	83	5.67	51.267
8	-7.83	53.000	34	-3.15	53.000	59	1.35	53.000	84	5.85	44.667
9	-7.65	53.000	35	-2.97	53.000	60	1.53	53.000	85	6.03	38.067
10	-7.47	53.000	36	-2.79	53.000	61	1.71	53.000	86	6.21	31.467
11	-7.29	53.000	37	-2.61	53.000	62	1.89	53.000	87	6.39	34.107
12	-7.11	53.000	38	-2.43	53.000	63	2.07	53.000	88	6.57	39.387
13	-6.93	53.000	39	-2.25	53.000	64	2.25	53.000	89	6.75	44.667
14	-6.75	53.000	40	-2.07	53.000	65	2.43	53.000	90	6.93	49.947
15	-6.57	53.000	41	-1.89	53.000	66	2.61	53.000	91	7.11	52.000
16	-6.39	53.000	42	-1.71	53.000	67	2.79	53.000	92	7.29	52.000
17	-6.21	53.000	43	-1.53	53.000	68	2.97	53.000	93	7.47	52.000
18	-6.03	53.000	44	-1.35	53.000	69	3.15	53.000	94	7.65	52.000
19	-5.85	53.000	45	-1.17	53.000	70	3.33	53.000	95	7.83	52.000
20	-5.67	53.000	46	-0.99	53.000	71	3.51	53.000	96	8.01	52.000
21	-5.49	53.000	47	-0.81	53.000	72	3.69	53.000	97	8.19	52.000
22	-5.31	53.000	48	-0.63	53.000	73	3.87	48.240	98	8.37	52.000
23	-5.13	53.000	49	-0.45	53.000	74	4.05	46.000	99	8.55	52.000
24	-4.95	53.000	50	-0.27	53.000	75	4.23	46.000	100	8.73	52.000
25	-4.77	53.000	51	-0.09	53.000	76	4.41	45.938	101	8.91	52.000
26	-4.59	53.000									

JUNCTN SURFACE AREAS (SOFT)

JUNC NO	RIVER MILE	VALUE									
1	-9.09	5.037E+04	27	-4.41	5.037E+04	52	0.09	5.037E+04	77	4.59	4.259E+04
2	-8.91	5.037E+04	28	-4.23	5.037E+04	53	0.27	5.037E+04	78	4.77	4.152E+04
3	-8.73	5.037E+04	29	-4.05	5.037E+04	54	0.45	5.037E+04	79	4.95	4.045E+04
4	-8.55	5.037E+04	30	-3.87	5.037E+04	55	0.63	5.037E+04	80	5.13	3.938E+04
5	-8.37	5.037E+04	31	-3.69	5.037E+04	56	0.81	5.037E+04	81	5.31	4.152E+04
6	-8.19	5.037E+04	32	-3.51	5.037E+04	57	0.99	5.037E+04	82	5.49	4.570E+04
7	-8.01	5.037E+04	33	-3.33	5.037E+04	58	1.17	5.037E+04	83	5.67	4.872E+04
8	-7.83	5.037E+04	34	-3.15	5.037E+04	59	1.35	5.037E+04	84	5.85	4.245E+04

A3 COEFFICIENT FOR FLOW EQUATION - REPRESENTS DEPTH OF FLOW IF A1 AND/OR A2 ARE NOT SPECIFIED (OR ARE ZERO)								
JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	1.510	27	-4.41	1.510	52	0.09	1.510
2	-8.91	1.510	28	-4.23	1.510	53	0.27	1.510
3	-8.73	1.510	29	-4.05	1.510	54	0.45	1.510
4	-8.55	1.510	30	-3.87	1.510	55	0.63	1.510
5	-8.37	1.510	31	-3.69	1.510	56	0.81	1.510
6	-8.19	1.510	32	-3.51	1.510	57	0.99	1.510
7	-8.01	1.510	33	-3.33	1.510	58	1.17	1.510
8	-7.83	1.510	34	-3.15	1.510	59	1.35	1.510
9	-7.65	1.510	35	-2.97	1.510	60	1.53	1.510
10	-7.47	1.510	36	-2.79	1.510	61	1.71	1.510
11	-7.29	1.510	37	-2.61	1.510	62	1.89	1.510
12	-7.11	1.510	38	-2.43	1.510	63	2.07	1.510
13	-6.93	1.510	39	-2.25	1.510	64	2.25	1.510
14	-6.75	1.510	40	-2.07	1.510	65	2.43	1.510
15	-6.57	1.510	41	-1.89	1.510	66	2.61	1.510
16	-6.39	1.510	42	-1.71	1.510	67	2.79	1.510
17	-6.21	1.510	43	-1.53	1.510	68	2.97	1.510
18	-6.03	1.510	44	-1.35	1.510	69	3.15	1.510
19	-5.85	1.510	45	-1.17	1.510	70	3.33	1.510
20	-5.67	1.510	46	-0.99	1.510	71	3.51	1.510
21	-5.49	1.510	47	-0.81	1.510	72	3.69	1.510
22	-5.31	1.510	48	-0.63	1.510	73	3.87	1.510
23	-5.13	1.510	49	-0.45	1.510	74	4.05	1.510
24	-4.95	1.510	50	-0.27	1.510	75	4.23	1.510
25	-4.77	1.510	51	-0.09	1.510	76	4.41	1.510
26	-4.59	1.510						

**** JUNCTION WATER TEMPERATURES (DEG-C) ****
 ALL VALUES = 29.250
 **** INPUT OXYGEN SATURATION CONCENTRATIONS (PPM) ****
 ALL VALUES = 7.658
 **** NET EVAPORATION - RAINFALL (IN/MO) ****
 ALL VALUES = 0.000E+00
 **** OXYGEN UPTAKE OF SEDIMENTS (GM O2 /SGM/DAY) ****
 ALL VALUES = 1.806
 **** CBOD DEOXYGENATION RATES CORRECTED TO STREAM TEMPS - (1/DAY) ****
 ALL VALUES = 0.153
 **** CBOD SEDIMENTATION RATES - (1/DAY) ****
 ALL VALUES = 0.025
 **** NBOD DEOXYGENATION RATES CORRECTED TO STREAM TEMPS - (1/DAY) ****
 ALL VALUES = 0.175
 **** NBOD SEDIMENTATION RATES - (1/DAY), 5X****
 ALL VALUES = 5.000E-03
 **** NONPOINT SOURCE FLOW (CFS/MILE OF STREAM) ****

 JUNC NO RIVER MILE VALUE
 1 -9.09 0.000 27 -4.41 0.000 52 0.09 0.000 77 4.59 0.000
 2 -8.91 0.000 28 -4.23 0.000 53 0.27 0.000 78 4.77 0.000
 3 -8.73 0.000 29 -4.05 0.000 54 0.45 0.000 79 4.95 0.000
 4 -8.55 0.000 30 -3.87 0.000 55 0.63 0.000 80 5.13 0.000
 5 -8.37 0.000 31 -3.69 0.000 56 0.81 0.000 81 5.31 0.000
 6 -8.19 0.000 32 -3.51 0.000 57 0.99 0.000 82 5.49 0.000
 7 -8.01 0.000 33 -3.33 0.000 58 1.17 0.000 83 5.67 0.000
 8 -7.83 0.000 34 -3.15 0.000 59 1.35 0.000 84 5.85 0.000
 9 -7.65 0.000 35 -2.97 0.000 60 1.53 0.000 85 6.03 0.000
 10 -7.47 0.000 36 -2.79 0.000 61 1.71 0.000 86 6.21 0.126
 11 -7.29 0.000 37 -2.61 0.000 62 1.89 0.000 87 6.39 0.630
 12 -7.11 0.000 38 -2.43 0.000 63 2.07 0.000 88 6.57 0.630
 13 -6.93 0.000 39 -2.25 0.000 64 2.25 0.000 89 6.75 0.630
 14 -6.75 0.000 40 -2.07 0.000 65 2.43 0.000 90 6.93 0.630
 15 -6.57 0.000 41 -1.89 0.000 66 2.61 0.000 91 7.11 0.630
 16 -6.39 0.000 42 -1.71 0.000 67 2.79 0.000 92 7.29 0.630
 17 -6.21 0.000 43 -1.53 0.000 68 2.97 0.000 93 7.47 0.630
 18 -6.03 0.000 44 -1.35 0.000 69 3.15 0.000 94 7.65 0.630
 19 -5.85 0.000 45 -1.17 0.000 70 3.33 0.000 95 7.83 0.630
 20 -5.67 0.000 46 -0.99 0.000 71 3.51 0.000 96 8.01 0.630
 21 -5.49 0.000 47 -0.81 0.000 72 3.69 0.000 97 8.19 0.630
 22 -5.31 0.000 48 -0.63 0.000 73 3.87 0.000 98 8.37 0.630
 23 -5.13 0.000 49 -0.45 0.000 74 4.05 0.000 99 8.55 0.630

24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	0.630
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.630
26	-4.59	0.000									

***** NBOD NONPOINT SOURCE CONTRIBUTION (LBSNBOD/DAY/MILE OF STREAM) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	15.000	27	-4.41	15.000	52	0.09	15.000	77	4.59	14.629
2	-8.91	15.000	28	-4.23	15.000	53	0.27	15.000	78	4.77	13.888
3	-8.73	15.000	29	-4.05	15.000	54	0.45	15.000	79	4.95	13.147
4	-8.55	15.000	30	-3.87	15.000	55	0.63	15.000	80	5.13	12.406
5	-8.37	15.000	31	-3.69	15.000	56	0.81	15.000	81	5.31	11.665
6	-8.19	15.000	32	-3.51	15.000	57	0.99	15.000	82	5.49	10.924
7	-8.01	15.000	33	-3.33	15.000	58	1.17	15.000	83	5.67	10.182
8	-7.83	15.000	34	-3.15	15.000	59	1.35	15.000	84	5.85	9.441
9	-7.65	15.000	35	-2.97	15.000	60	1.53	15.000	85	6.03	8.700
10	-7.47	15.000	36	-2.79	15.000	61	1.71	15.000	86	6.21	7.400
11	-7.29	15.000	37	-2.61	15.000	62	1.89	15.000	87	6.39	5.233
12	-7.11	15.000	38	-2.43	15.000	63	2.07	15.000	88	6.57	5.533
13	-6.93	15.000	39	-2.25	15.000	64	2.25	15.000	89	6.75	5.833
14	-6.75	15.000	40	-2.07	15.000	65	2.43	15.000	90	6.93	6.133
15	-6.57	15.000	41	-1.89	15.000	66	2.61	15.000	91	7.11	6.433
16	-6.39	15.000	42	-1.71	15.000	67	2.79	15.000	92	7.29	6.733
17	-6.21	15.000	43	-1.53	15.000	68	2.97	15.000	93	7.47	7.033
18	-6.03	15.000	44	-1.35	15.000	69	3.15	15.000	94	7.65	7.333
19	-5.85	15.000	45	-1.17	15.000	70	3.33	15.000	95	7.83	7.633
20	-5.67	15.000	46	-0.99	15.000	71	3.51	15.000	96	8.01	7.933
21	-5.49	15.000	47	-0.81	15.000	72	3.69	15.000	97	8.19	8.000
22	-5.31	15.000	48	-0.63	15.000	73	3.87	15.000	98	8.37	8.000
23	-5.13	15.000	49	-0.45	15.000	74	4.05	15.000	99	8.55	8.000
24	-4.95	15.000	50	-0.27	15.000	75	4.23	15.000	100	8.73	8.000
25	-4.77	15.000	51	-0.09	15.000	76	4.41	15.000	101	8.91	8.000
26	-4.59	15.000									

***** CBOD NONPOINT SOURCE CONTRIBUTION (LBSBCBOD/DAY/MILE OF STREAM) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	4.000	27	-4.41	4.000	52	0.09	4.000	77	4.59	4.000
2	-8.91	4.000	28	-4.23	4.000	53	0.27	4.000	78	4.77	4.000
3	-8.73	4.000	29	-4.05	4.000	54	0.45	4.000	79	4.95	4.000
4	-8.55	4.000	30	-3.87	4.000	55	0.63	4.000	80	5.13	4.000
5	-8.37	4.000	31	-3.69	4.000	56	0.81	4.000	81	5.31	4.000
6	-8.19	4.000	32	-3.51	4.000	57	0.99	4.000	82	5.49	4.000
7	-8.01	4.000	33	-3.33	4.000	58	1.17	4.000	83	5.67	4.000
8	-7.83	4.000	34	-3.15	4.000	59	1.35	4.000	84	5.85	4.000
9	-7.65	4.000	35	-2.97	4.000	60	1.53	4.000	85	6.03	4.000
10	-7.47	4.000	36	-2.79	4.000	61	1.71	4.000	86	6.21	4.400
11	-7.29	4.000	37	-2.61	4.000	62	1.89	4.000	87	6.39	6.000
12	-7.11	4.000	38	-2.43	4.000	63	2.07	4.000	88	6.57	6.000

*****		O2 NONPOINT SOURCE CONTRIBUTIONS (LBS O2/DAY/MILE OF STREAM)		*****	
JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO	RIVER MILE
13	-6.93	3.9	-2.25	4.000	64
14	-6.75	4.000	-2.07	4.000	65
15	-6.57	4.000	-1.89	4.000	66
16	-6.39	4.000	-1.71	4.000	67
17	-6.21	4.000	-1.53	4.000	68
18	-6.03	4.000	-1.35	4.000	69
19	-5.85	4.000	-1.17	4.000	70
20	-5.67	4.000	-0.99	4.000	71
21	-5.49	4.000	-0.81	4.000	72
22	-5.31	4.000	-0.63	4.000	73
23	-5.13	4.000	-0.45	4.000	74
24	-4.95	4.000	-0.27	4.000	75
25	-4.77	4.000	-0.09	4.000	76
26	-4.59	4.000		4.000	
*****		*****		*****	
ALL VALUES =	0.000E+00	DISPERSION COEFFICIENTS (SQFT/SEC)	0.000E+00	AVERAGE DAILY PHOTOSYNTHESIS-RESPIRATION RATE (GM O2/SQM/DAY) CORRECTED TO STREAM TEMPERATURES	*****
ALL VALUES =	0.000E+00				*****

ALL VALUES = 0.000E+00 AVERAGE DAILY PHOTOSYNTHESIS-RESPIRATION RATE (GM O2/SQM/DAY) CORRECTED TO STREAM TEMPERATURES *****

***** DEPTH OR VELOCITY DEPENDENT VARIABLES *****

***** CROSSECTIONAL AREAS OF JUNCTNS (SQFT) *****

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	80.030	27	-4.41	80.030	52	0.09	80.030	77	4.59	79.313
2	-8.91	80.030	28	-4.23	80.030	53	0.27	80.030	78	4.77	79.386
3	-8.73	80.030	29	-4.05	80.030	54	0.45	80.030	79	4.95	79.352
4	-8.55	80.030	30	-3.87	80.030	55	0.63	80.030	60	5.13	79.213
5	-8.37	80.030	31	-3.69	80.030	56	0.81	80.030	81	5.31	79.941
6	-8.19	80.030	32	-3.51	80.030	57	0.99	80.030	82	5.49	60.105
7	-8.01	80.030	33	-3.33	80.030	58	1.17	80.030	83	5.67	78.609
8	-7.83	80.030	34	-3.15	80.030	59	1.35	80.030	84	5.85	73.849
9	-7.65	80.030	35	-2.97	80.030	60	1.53	80.030	85	6.03	67.505
10	-7.47	80.030	36	-2.79	80.030	61	1.71	80.030	86	6.21	59.577
11	-7.29	80.030	37	-2.61	80.030	62	1.89	80.030	87	6.39	57.807
12	-7.11	80.030	38	-2.43	80.030	63	2.07	80.030	88	6.57	55.356
13	-6.93	80.030	39	-2.25	80.030	64	2.25	80.030	89	6.75	49.848
14	-6.75	80.030	40	-2.07	80.030	65	2.43	80.030	90	6.93	41.284
15	-6.57	80.030	41	-1.89	80.030	66	2.61	80.030	91	7.11	37.128
16	-6.39	80.030	42	-1.71	80.030	67	2.79	80.030	92	7.29	37.128
17	-6.21	80.030	43	-1.53	80.030	68	2.97	80.030	93	7.47	37.128
18	-6.03	80.030	44	-1.35	80.030	69	3.15	80.030	94	7.65	37.128
19	-5.85	80.030	45	-1.17	80.030	70	3.33	80.030	95	7.83	37.128
20	-5.67	80.030	46	-0.99	80.030	71	3.51	80.030	96	8.01	37.128
21	-5.49	80.030	47	-0.81	80.030	72	3.69	80.030	97	8.19	37.128
22	-5.31	80.030	48	-0.63	80.030	73	3.87	80.030	98	8.37	37.128
23	-5.13	80.030	49	-0.45	80.030	74	4.05	79.836	99	8.55	37.128
24	-4.95	80.030	50	-0.27	80.030	75	4.23	79.468	100	8.73	37.128
25	-4.77	80.030	51	-0.09	80.030	76	4.41	79.133	101	8.91	37.128
26	-4.59	80.030									
***** JUNCTN DEPTHS (FT) *****											
JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	1.510	27	-4.41	1.510	52	0.09	1.510	77	4.59	1.770
2	-8.91	1.510	28	-4.23	1.510	53	0.27	1.510	78	4.77	1.817
3	-8.73	1.510	29	-4.05	1.510	54	0.45	1.510	79	4.95	1.864
4	-8.55	1.510	30	-3.87	1.510	55	0.63	1.510	80	5.13	1.912
5	-8.37	1.510	31	-3.69	1.510	56	0.81	1.510	81	5.31	1.830
6	-8.19	1.510	32	-3.51	1.510	57	0.99	1.510	82	5.49	1.666
7	-8.01	1.510	33	-3.33	1.510	58	1.17	1.510	83	5.67	1.533
8	-7.83	1.510	34	-3.15	1.510	59	1.35	1.510	84	5.85	1.653
9	-7.65	1.510	35	-2.97	1.510	60	1.53	1.510	85	6.03	1.773
10	-7.47	1.510	36	-2.79	1.510	61	1.71	1.510	86	6.21	1.893

***** JUNCTION VELOCITIES (FT/SEC) *****				***** JUNCTION VOLUMES (CUFT) *****			
JUNC NO	RIVER MILE	JUNC VALUE	RIVER MILE	JUNC NO	RIVER MILE	JUNC VALUE	RIVER MILE
11	-7.29	37	-2.61	1.510	62	1.89	1.695
12	-7.11	1.510	38	-2.43	1.510	2.07	1.405
13	-6.93	1.510	39	-2.25	1.510	2.25	1.116
14	-6.75	1.510	40	-2.07	1.510	2.43	0.827
15	-6.57	1.510	41	-1.89	1.510	2.61	0.714
16	-6.39	1.510	42	-1.71	1.510	2.79	0.714
17	-6.21	1.510	43	-1.53	1.510	2.97	1.510
18	-6.03	1.510	44	-1.35	1.510	3.15	1.510
19	-5.85	1.510	45	-1.17	1.510	3.33	1.510
20	-5.67	1.510	46	-0.99	1.510	3.51	1.510
21	-5.49	1.510	47	-0.81	1.510	3.69	1.510
22	-5.31	1.510	48	-0.63	1.510	3.87	1.666
23	-5.13	1.510	49	-0.45	1.510	4.05	1.736
24	-4.95	1.510	50	-0.27	1.510	4.23	1.728
25	-4.77	1.510	51	-0.09	1.510	4.41	1.723
26	-4.59	1.510			1.510	76	101
***** JUNCTION VELOCITIES (FT/SEC) *****				***** JUNCTION VOLUMES (CUFT) *****			
JUNC NO	RIVER MILE	JUNC VALUE	RIVER MILE	JUNC NO	RIVER MILE	JUNC VALUE	RIVER MILE
1	-9.09	0.078	27	-4.41	0.078	52	0.09
2	-8.91	0.078	28	-4.23	0.078	53	0.27
3	-8.73	0.078	29	-4.05	0.078	54	0.45
4	-8.55	0.078	30	-3.87	0.078	55	0.63
5	-8.37	0.078	31	-3.69	0.078	56	0.81
6	-8.19	0.078	32	-3.51	0.078	57	0.99
7	-8.01	0.078	33	-3.33	0.078	58	1.17
8	-7.83	0.078	34	-3.15	0.078	59	1.35
9	-7.65	0.078	35	-2.97	0.078	60	1.53
10	-7.47	0.078	36	-2.79	0.078	61	1.71
11	-7.29	0.078	37	-2.61	0.078	62	1.89
12	-7.11	0.078	38	-2.43	0.078	63	2.07
13	-6.93	0.078	39	-2.25	0.078	64	2.25
14	-6.75	0.078	40	-2.07	0.078	65	2.43
15	-6.57	0.078	41	-1.89	0.078	66	2.61
16	-6.39	0.078	42	-1.71	0.078	67	2.79
17	-6.21	0.078	43	-1.53	0.078	68	2.97
18	-6.03	0.078	44	-1.35	0.078	69	3.15
19	-5.85	0.078	45	-1.17	0.078	70	3.33
20	-5.67	0.078	46	-0.99	0.078	71	3.51
21	-5.49	0.078	47	-0.81	0.078	72	3.69
22	-5.31	0.078	48	-0.63	0.078	73	3.87
23	-5.13	0.078	49	-0.45	0.078	74	4.05
24	-4.95	0.078	50	-0.27	0.078	75	4.23
25	-4.77	0.078	51	-0.09	0.078	76	4.41
26	-4.59	0.078			0.077	100	101

***** JUNCTION VELOCITIES (FT/SEC) *****

***** JUNCTION VOLUMES (CUFT) *****

JUNC RIVER

JUNC RIVER

JUNC RIVER

JUNC RIVER

C32

NO	MILE	VALUE	MILE	VALUE	MILE	VALUE	MILE	VALUE	MILE	VALUE	MILE	VALUE	MILE	VALUE	MILE	VALUE	MILE	VALUE	MILE	VALUE
1	-9.09	7.606E+04	27	-4.41	7.606E+04	52	0.09	7.606E+04	77	4.59	7.538E+04									
2	-8.91	7.606E+04	28	-4.23	7.606E+04	53	0.27	7.606E+04	78	4.77	7.545E+04									
3	-8.73	7.606E+04	29	-4.05	7.606E+04	54	0.45	7.606E+04	79	4.95	7.542E+04									
4	-8.55	7.606E+04	30	-3.87	7.606E+04	55	0.63	7.606E+04	80	5.13	7.528E+04									
5	-8.37	7.606E+04	31	-3.69	7.606E+04	56	0.81	7.606E+04	81	5.31	7.598E+04									
6	-8.19	7.606E+04	32	-3.51	7.606E+04	57	0.99	7.606E+04	82	5.49	7.613E+04									
7	-8.01	7.606E+04	33	-3.33	7.606E+04	58	1.17	7.606E+04	83	5.67	7.471E+04									
8	-7.83	7.606E+04	34	-3.15	7.606E+04	59	1.35	7.606E+04	84	5.85	7.019E+04									
9	-7.65	7.606E+04	35	-2.97	7.606E+04	60	1.53	7.606E+04	85	6.03	6.416E+04									
10	-7.47	7.606E+04	36	-2.79	7.606E+04	61	1.71	7.606E+04	86	6.21	5.662E+04									
11	-7.29	7.606E+04	37	-2.61	7.606E+04	62	1.89	7.606E+04	87	6.39	5.494E+04									
12	-7.11	7.606E+04	38	-2.43	7.606E+04	63	2.07	7.606E+04	88	6.57	5.261E+04									
13	-6.93	7.606E+04	39	-2.25	7.606E+04	64	2.25	7.606E+04	89	6.75	4.738E+04									
14	-6.75	7.606E+04	40	-2.07	7.606E+04	65	2.43	7.606E+04	90	6.93	3.924E+04									
15	-6.57	7.606E+04	41	-1.89	7.606E+04	66	2.61	7.606E+04	91	7.11	3.529E+04									
16	-6.39	7.606E+04	42	-1.71	7.606E+04	67	2.79	7.606E+04	92	7.29	3.529E+04									
17	-6.21	7.606E+04	43	-1.53	7.606E+04	68	2.97	7.606E+04	93	7.47	3.529E+04									
18	-6.03	7.606E+04	44	-1.35	7.606E+04	69	3.15	7.606E+04	94	7.65	3.529E+04									
19	-5.85	7.606E+04	45	-1.17	7.606E+04	70	3.33	7.606E+04	95	7.83	3.529E+04									
20	-5.67	7.606E+04	46	-0.99	7.606E+04	71	3.51	7.606E+04	96	8.01	3.529E+04									
21	-5.49	7.606E+04	47	-0.81	7.606E+04	72	3.69	7.606E+04	97	8.19	3.529E+04									
22	-5.31	7.606E+04	48	-0.63	7.606E+04	73	3.87	7.640E+04	98	8.37	3.529E+04									
23	-5.13	7.606E+04	49	-0.45	7.606E+04	74	4.05	7.588E+04	99	8.55	3.529E+04									
24	-4.95	7.606E+04	50	-0.27	7.606E+04	75	4.23	7.553E+04	100	8.73	3.529E+04									
25	-4.77	7.606E+04	51	-0.09	7.606E+04	76	4.41	7.521E+04	101	8.91	3.529E+04									
26	-4.59	7.606E+04																		

***** ISPIACS AND GAUDY CORRELATION

***** WIND INDUCED REAERATION WAS USED FOR THE FOLLOW SEGMENTS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90
 91 92 93 94 95 96 97 98 99 100 101

***** COMPUTED REAERATION RATES (1/DAY)

JUNC NO RIVER MILE VALUE JUNC NO RIVER MILE VALUE JUNC NO RIVER MILE VALUE JUNC NO RIVER MILE VALUE

1	-9.09	1.567	27	-4.41	1.567	52	0.09	1.567	77	4.59	1.337								
2	-8.91	1.567	28	-4.23	1.567	53	0.27	1.567	78	4.77	1.302								
3	-8.73	1.567	29	-4.05	1.567	54	0.45	1.567	79	4.95	1.269								
4	-8.55	1.567	30	-3.87	1.567	55	0.63	1.567	80	5.13	1.238								
5	-8.37	1.567	31	-3.69	1.567	56	0.81	1.567	81	5.31	1.293								
6	-8.19	1.567	32	-3.51	1.567	57	0.99	1.567	82	5.49	1.420								
7	-8.01	1.567	33	-3.33	1.567	58	1.17	1.567	83	5.67	1.543								
8	-7.83	1.567	34	-3.15	1.567	59	1.35	1.567	84	5.85	1.431								
9	-7.65	1.567	35	-2.97	1.567	60	1.53	1.567	85	6.03	1.334								
10	-7.47	1.567	36	-2.79	1.567	61	1.71	1.567	86	6.21	1.250								
11	-7.29	1.567	37	-2.61	1.567	62	1.89	1.567	87	6.39	1.396								
12	-7.11	1.567	38	-2.43	1.567	63	2.07	1.567	88	6.57	1.684								

13	-6.93	1.567	39	-2.25	1.567	64	2.25	1.567	89	6.75
14	-6.75	1.567	40	-2.07	1.567	65	2.43	1.567	90	6.93
15	-6.57	1.567	41	-1.89	1.567	66	2.61	1.567	91	7.11
16	-6.39	1.567	42	-1.71	1.567	67	2.79	1.567	92	7.29
17	-6.21	1.567	43	-1.53	1.567	68	2.97	1.567	93	7.47
18	-6.03	1.567	44	-1.35	1.567	69	3.15	1.567	94	7.65
19	-5.85	1.567	45	-1.17	1.567	70	3.33	1.567	95	7.83
20	-5.67	1.567	46	-0.99	1.567	71	3.51	1.567	96	8.01
21	-5.49	1.567	47	-0.81	1.567	72	3.69	1.567	97	8.19
22	-5.31	1.567	48	-0.63	1.567	73	3.87	1.420	98	8.37
23	-5.13	1.567	49	-0.45	1.567	74	4.05	1.363	99	8.55
24	-4.95	1.567	50	-0.27	1.567	75	4.23	1.370	100	8.73
25	-4.77	1.567	51	-0.09	1.567	76	4.41	1.374	101	8.91
26	-4.59	1.567								3.314

STEADY STATE FLOW CONDITIONS

TOTAL INFLOWS = 6.3 CFS
 TOTAL DIVERIONS = 0.0 CFS
 TOTAL DIVERSIONS AT DOWNTSTREAM JUNCTION = 6.3 CFS
 OUTFLOW AT DOWNTSTREAM JUNCTION = 6.3 CFS

POINT SOURCE INFLOWS (CFS)

JUNC NO	RIVER MILE	VALUE									
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	0.579
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.339
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.174	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	3.449
26	-4.59	0.000									

NONPOINT SOURCE INFLOWS (CFS) (EXCLUDING RAINFALL)

JUNC NO	RIVER MILE	VALUE									
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000

***** ALL VALUES = 0.000E+00 NONPOINT DIVERSIONS OR LOSSES (CFS) (EXCLUDING EVAPORATION) *****

JUNCT*N FLOWS (CFS)			
JUNC NO	RIVER MILE	VALUE	RIVER MILE
1	-9.09	-6.265	2.7
2	-8.91	-6.265	2.8
3	-8.73	-6.265	2.9
4	-8.55	-6.265	3.0
5	-8.37	-6.265	3.1
6	-8.19	-6.265	3.2
7	-8.01	-6.265	3.3
8	-7.83	-6.265	3.4
9	-7.65	-6.265	3.5
10	-7.47	-6.265	3.6
11	-7.29	-6.265	3.7
12	-7.11	-6.265	3.8
13	-6.93	-6.265	3.9
14	-6.75	-6.265	4.0
15	-6.57	-6.265	4.1
16	-6.39	-6.265	4.2
17	-6.21	-6.265	4.3
18	-6.03	-6.265	4.4
19	-5.85	-6.265	4.5
20	-5.67	-6.265	4.6
21	-5.49	-6.265	4.7
22	-5.31	-6.265	4.8
23	-5.13	-6.265	4.9
24	-4.95	-6.265	5.0
25	-4.77	-6.265	5.1
26	-4.59	-6.265	

***** RESIDENCE TIME (DAYS) *****

JUNC NO	RIVER MILE	VALUE	RIVER MILE	VALUE	RIVER MILE	VALUE	RIVER MILE	VALUE	RIVER MILE	VALUE
1	-9.09	13.623	2.7	-4.41	9.969	52	0.09	-6.265	7.7	4.59
2	-8.91	13.482	2.8	-4.23	9.829	53	0.27	-6.265	7.8	4.77
3	-8.73	13.342	2.9	-4.05	9.688	54	0.45	-6.265	7.9	4.95
4	-8.55	13.201	3.0	-3.87	9.548	55	0.63	-6.265	8.0	5.13
5	-8.37	13.061	3.1	-3.69	9.407	56	0.81	-6.265	8.1	5.31
6	-8.19	12.920	3.2	-3.51	9.267	57	0.99	-6.265	8.2	5.49
7	-8.01	12.780	3.3	-3.33	9.126	58	1.17	-6.265	8.3	5.67
8	-7.83	12.639	3.4	-3.15	8.986	59	1.35	-6.265	8.4	5.85
9	-7.65	12.499	3.5	-2.97	8.845	60	1.53	-6.265	8.5	6.03
10	-7.47	12.358	3.6	-2.79	8.705	61	1.71	-6.265	8.6	6.21
11	-7.29	12.218	3.7	-2.61	8.564	62	1.89	-6.265	8.7	6.39
12	-7.11	12.077	3.8	-2.43	8.423	63	2.07	-6.265	8.8	6.57
13	-6.93	11.937	3.9	-2.25	8.283	64	2.25	-6.265	8.9	6.75

14	-6.75	11.796	40	-2.07	8.142	65	2.43	4.629	90	6.93	1.191
15	-6.57	11.656	41	-1.89	8.002	66	2.61	4.489	91	7.11	1.101
16	-6.39	11.515	42	-1.71	7.861	67	2.79	4.348	92	7.29	1.018
17	-6.21	11.374	43	-1.53	7.721	68	2.97	4.208	93	7.47	0.933
18	-6.03	11.234	44	-1.35	7.580	69	3.15	4.067	94	7.65	0.846
19	-5.85	11.093	45	-1.17	7.440	70	3.33	3.927	95	7.83	0.757
20	-5.67	10.953	46	-0.99	7.299	71	3.51	3.786	96	8.01	0.658
21	-5.49	10.812	47	-0.81	7.159	72	3.69	3.646	97	8.19	0.557
22	-5.31	10.672	48	-0.63	7.018	73	3.87	3.505	98	8.37	0.452
23	-5.13	10.531	49	-0.45	6.878	74	4.05	3.364	99	8.55	0.344
24	-4.95	10.391	50	-0.27	6.737	75	4.23	3.224	100	8.73	0.233
25	-4.77	10.250	51	-0.09	6.597	76	4.41	3.080	101	8.91	0.118
26	-4.59	10.110									

STEADY STATE NBOD INPUT CONDITIONS

POINT SOURCE INFLOW CONCENTRATIONS (PPM)

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	21.500
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000
26	-4.59	0.000						101

NONPOINT SOURCE LOADS (LBS/DAY)

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	2.700	27	-4.41	2.700	52	0.09	2.700
2	-8.91	2.700	28	-4.23	2.700	53	0.27	2.700
3	-8.73	2.700	29	-4.05	2.700	54	0.45	2.700
4	-8.55	2.700	30	-3.87	2.700	55	0.63	2.700
5	-8.37	2.700	31	-3.69	2.700	56	0.81	2.700
6	-8.19	2.700	32	-3.51	2.700	57	0.99	2.700

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-4.59	0.000	77	4.59	0.000	78	4.77	0.000
2	4.59	0.000	79	4.95	0.000	80	5.13	0.000
3	4.77	0.000	81	5.31	0.000	82	5.49	1.966

7	-8.01	2.700	33	-3.33	58	1.17	2.700	83	5.67
8	-7.83	2.700	34	-3.15	59	1.35	2.700	84	5.85
9	-7.65	2.700	35	-2.97	60	1.53	2.700	85	6.03
10	-7.47	2.700	36	-2.79	61	1.71	2.700	86	6.21
11	-7.29	2.700	37	-2.61	62	1.89	2.700	87	6.39
12	-7.11	2.700	38	-2.43	63	2.07	2.700	88	6.57
13	-6.93	2.700	39	-2.25	64	2.25	2.700	89	6.75
14	-6.75	2.700	40	-2.07	65	2.43	2.700	90	6.93
15	-6.57	2.700	41	-1.89	66	2.61	2.700	91	7.11
16	-6.39	2.700	42	-1.71	67	2.79	2.700	92	7.29
17	-6.21	2.700	43	-1.53	68	2.97	2.700	93	7.47
18	-6.03	2.700	44	-1.35	69	3.15	2.700	94	7.65
19	-5.85	2.700	45	-1.17	70	3.33	2.700	95	7.83
20	-5.67	2.700	46	-0.99	71	3.51	2.700	96	8.01
21	-5.49	2.700	47	-0.81	72	3.69	2.700	97	8.19
22	-5.31	2.700	48	-0.63	73	3.87	2.700	98	8.37
23	-5.13	2.700	49	-0.45	74	4.05	2.700	99	8.55
24	-4.95	2.700	50	-0.27	75	4.23	2.700	100	8.73
25	-4.77	2.700	51	-0.09	76	4.41	2.700	101	8.91
26	-4.59	2.700							

Red Chute Bayou TMDL 10/05 treatment 5 effluent DO
 STEADY STATE NBOD CONCENTRATIONS (PPM)
 OUTFLOW AT DOWNSTREAM END = 6.3 CFS

CONCENTRATIONS (PPM)						
JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO
1	-9.09	3.717	27	-4.41	4.219	52
2	-8.91	3.731	28	-4.23	4.246	53
3	-8.73	3.746	29	-4.05	4.273	54
4	-8.55	3.760	30	-3.87	4.301	55
5	-8.37	3.775	31	-3.69	4.329	56
6	-8.19	3.790	32	-3.51	4.359	57
7	-8.01	3.806	33	-3.33	4.389	58
8	-7.83	3.822	34	-3.15	4.420	59
9	-7.65	3.839	35	-2.97	4.451	60
10	-7.47	3.856	36	-2.79	4.484	61
11	-7.29	3.873	37	-2.61	4.517	62
12	-7.11	3.891	38	-2.43	4.551	63
13	-6.93	3.909	39	-2.25	4.586	64
14	-6.75	3.928	40	-2.07	4.621	65
15	-6.57	3.947	41	-1.89	4.658	66
16	-6.39	3.967	42	-1.71	4.696	67
17	-6.21	3.987	43	-1.53	4.734	68
18	-6.03	4.008	44	-1.35	4.774	69
19	-5.85	4.029	45	-1.17	4.814	70
20	-5.67	4.051	46	-0.99	4.856	71
21	-5.49	4.073	47	-0.81	4.899	72
22	-5.31	4.096	48	-0.63	4.942	73
23	-5.13	4.119	49	-0.45	4.987	74
24	-4.95	4.143	50	-0.27	5.033	75
25	-4.77	4.168	51	-0.09	5.080	76
26	-4.59	4.193				

STEADY STATE CBOD INPUT CONDITIONS

***** POINT SOURCE INFLOW CONCENTRATIONS (PPM) *****

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	23.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	23.000
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	23.000	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	4.550
26	-4.59	0.000									

***** NONPOINT SOURCE LOADS (LBS/DAY) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	0.720	27	-4.41	0.720	52	0.09	0.720	77	4.59	0.720
2	-8.91	0.720	28	-4.23	0.720	53	0.27	0.720	78	4.77	0.720
3	-8.73	0.720	29	-4.05	0.720	54	0.45	0.720	79	4.95	0.720
4	-8.55	0.720	30	-3.87	0.720	55	0.63	0.720	80	5.13	0.720
5	-8.37	0.720	31	-3.69	0.720	56	0.81	0.720	81	5.31	0.720
6	-8.19	0.720	32	-3.51	0.720	57	0.99	0.720	82	5.49	0.720

C42

7	-8.01	0.720	33	-3.33	0.720	58	1.17	0.720	83	5.67
8	-7.83	0.720	34	-3.15	0.720	59	1.35	0.720	84	5.85
9	-7.65	0.720	35	-2.97	0.720	60	1.53	0.720	85	6.03
10	-7.47	0.720	36	-2.79	0.720	61	1.71	0.720	86	6.21
11	-7.29	0.720	37	-2.61	0.720	62	1.89	0.720	87	6.39
12	-7.11	0.720	38	-2.43	0.720	63	2.07	0.720	88	6.57
13	-6.93	0.720	39	-2.25	0.720	64	2.25	0.720	89	6.75
14	-6.75	0.720	40	-2.07	0.720	65	2.43	0.720	90	6.93
15	-6.57	0.720	41	-1.89	0.720	66	2.61	0.720	91	7.11
16	-6.39	0.720	42	-1.71	0.720	67	2.79	0.720	92	7.29
17	-6.21	0.720	43	-1.53	0.720	68	2.97	0.720	93	7.47
18	-6.03	0.720	44	-1.35	0.720	69	3.15	0.720	94	7.65
19	-5.85	0.720	45	-1.17	0.720	70	3.33	0.720	95	7.83
20	-5.67	0.720	46	-0.99	0.720	71	3.51	0.720	96	8.01
21	-5.49	0.720	47	-0.81	0.720	72	3.69	0.720	97	8.19
22	-5.31	0.720	48	-0.63	0.720	73	3.87	0.720	98	8.37
23	-5.13	0.720	49	-0.45	0.720	74	4.05	0.720	99	8.55
24	-4.95	0.720	50	-0.27	0.720	75	4.23	0.720	100	8.73
25	-4.77	0.720	51	-0.09	0.720	76	4.41	0.720	101	8.91
26	-4.59	0.720								

STEADY STATE CBOD CONCENTRATIONS (PPM)						
OUTFLOW AT DOWNSTREAM END = 6.3 CFS						
CONCENTRATIONS (PPM)						
JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO
1	-9.09	1.527	27	-4.41	2.134	52
2	-8.91	1.544	28	-4.23	2.166	53
3	-8.73	1.561	29	-4.05	2.199	54
4	-8.55	1.579	30	-3.87	2.233	55
5	-8.37	1.597	31	-3.69	2.267	56
6	-8.19	1.615	32	-3.51	2.303	57
7	-8.01	1.634	33	-3.33	2.339	58
8	-7.83	1.654	34	-3.15	2.376	59
9	-7.65	1.674	35	-2.97	2.414	60
10	-7.47	1.695	36	-2.79	2.453	61
11	-7.29	1.716	37	-2.61	2.493	62
12	-7.11	1.737	38	-2.43	2.534	63
13	-6.93	1.759	39	-2.25	2.576	64
14	-6.75	1.782	40	-2.07	2.619	65
15	-6.57	1.805	41	-1.89	2.664	66
16	-6.39	1.829	42	-1.71	2.709	67
17	-6.21	1.854	43	-1.53	2.755	68
18	-6.03	1.879	44	-1.35	2.803	69
19	-5.85	1.904	45	-1.17	2.852	70
20	-5.67	1.931	46	-0.99	2.902	71
21	-5.49	1.958	47	-0.81	2.953	72
22	-5.31	1.985	48	-0.63	3.005	73
23	-5.13	2.014	49	-0.45	3.059	74
24	-4.95	2.043	50	-0.27	3.114	75
25	-4.77	2.072	51	-0.09	3.171	76
26	-4.59	2.103				

STEADY STATE DO INPUT CONDITIONS

POINT SOURCE INFLOW CONCENTRATIONS (PPM)

JUNC NO	RIVER MILE	VALUE									
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	0.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.000
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	5.000	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	3.700
26	-4.59	0.000									

NONPOINT SOURCE LOADS (LBS/DAY)

JUNC NO	RIVER MILE	VALUE									
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000

7	-8.01	0.000	33	0.000	58	1.17	0.000	93	5.67
8	-7.83	0.000	34	-3.15	59	1.35	0.000	84	5.85
9	-7.65	0.000	35	-2.97	60	1.53	0.000	85	6.03
10	-7.47	0.000	36	-2.79	61	1.71	0.000	86	6.21
11	-7.29	0.000	37	-2.61	62	1.89	0.000	87	6.39
12	-7.11	0.000	38	-2.43	63	2.07	0.000	88	6.57
13	-6.93	0.000	39	-2.25	64	2.25	0.000	89	6.75
14	-6.75	0.000	40	-2.07	65	2.43	0.000	90	6.93
15	-6.57	0.000	41	-1.89	66	2.61	0.000	91	7.11
16	-6.39	0.000	42	-1.71	67	2.79	0.000	92	7.29
17	-6.21	0.000	43	-1.53	68	2.97	0.000	93	7.47
18	-6.03	0.000	44	-1.35	69	3.15	0.000	94	7.65
19	-5.85	0.000	45	-1.17	70	3.33	0.000	95	7.83
20	-5.67	0.000	46	-0.99	71	3.51	0.000	96	8.01
21	-5.49	0.000	47	-0.81	72	3.69	0.000	97	8.19
22	-5.31	0.000	48	-0.63	73	3.87	0.000	98	8.37
23	-5.13	0.000	49	-0.45	74	4.05	0.000	99	8.55
24	-4.95	0.000	50	-0.27	75	4.23	0.000	100	8.73
25	-4.77	0.000	51	-0.09	76	4.41	0.000	101	8.91
26	-4.59	0.000							

Red Chute Bayou TMDL 10/05 treatment 5 effluent DO
 STEADY STATE DO CONCENTRATIONS (PPM)
 OUTFLOW AT DOWNSTREAM END = 6.3 CFS

CONCENTRATIONS (PPM)					
JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	4.574	27	-4.41	4.444
2	-8.91	4.571	28	-4.23	4.437
3	-8.73	4.567	29	-4.05	4.430
4	-8.55	4.563	30	-3.87	4.423
5	-8.37	4.559	31	-3.69	4.416
6	-8.19	4.555	32	-3.51	4.408
7	-8.01	4.551	33	-3.33	4.400
8	-7.83	4.547	34	-3.15	4.392
9	-7.65	4.543	35	-2.97	4.384
10	-7.47	4.538	36	-2.79	4.376
11	-7.29	4.534	37	-2.61	4.367
12	-7.11	4.529	38	-2.43	4.358
13	-6.93	4.524	39	-2.25	4.349
14	-6.75	4.520	40	-2.07	4.340
15	-6.57	4.515	41	-1.89	4.331
16	-6.39	4.509	42	-1.71	4.321
17	-6.21	4.504	43	-1.53	4.311
18	-6.03	4.499	44	-1.35	4.301
19	-5.85	4.493	45	-1.17	4.290
20	-5.67	4.488	46	-0.99	4.279
21	-5.49	4.482	47	-0.81	4.268
22	-5.31	4.476	48	-0.63	4.257
23	-5.13	4.470	49	-0.45	4.245
24	-4.95	4.464	50	-0.27	4.233
25	-4.77	4.457	51	-0.09	4.221
26	-4.59	4.451			

Table 10 Winter TMDL Output Data - 30/15/2

ESTUARY / STREAM INPUT DATA

***** JUNCT*N WIDTHS (FT) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	53.000	27	-4.41	53.000	52	0.09	53.000	77	4.59	44.613
2	-8.91	53.000	28	-4.23	53.000	53	0.27	53.000	78	4.77	43.688
3	-8.73	53.000	29	-4.05	53.000	54	0.45	53.000	79	4.95	42.563
4	-8.55	53.000	30	-3.87	53.000	55	0.63	53.000	80	5.13	41.438
5	-8.37	53.000	31	-3.69	53.000	56	0.81	53.000	81	5.31	43.689
6	-8.19	53.000	32	-3.51	53.000	57	0.99	53.000	82	5.49	48.089
7	-8.01	53.000	33	-3.33	53.000	58	1.17	53.000	83	5.67	51.267
8	-7.83	53.000	34	-3.15	53.000	59	1.35	53.000	84	5.85	44.667
9	-7.65	53.000	35	-2.97	53.000	60	1.53	53.000	85	6.03	38.067
10	-7.47	53.000	36	-2.79	53.000	61	1.71	53.000	86	6.21	31.467
11	-7.29	53.000	37	-2.61	53.000	62	1.89	53.000	87	6.39	34.107
12	-7.11	53.000	38	-2.43	53.000	63	2.07	53.000	88	6.57	39.387
13	-6.93	53.000	39	-2.25	53.000	64	2.25	53.000	89	6.75	44.667
14	-6.75	53.000	40	-2.07	53.000	65	2.43	53.000	90	6.93	49.947
15	-6.57	53.000	41	-1.89	53.000	66	2.61	53.000	91	7.11	52.000
16	-6.39	53.000	42	-1.71	53.000	67	2.79	53.000	92	7.29	52.000
17	-6.21	53.000	43	-1.53	53.000	68	2.97	53.000	93	7.47	52.000
18	-6.03	53.000	44	-1.35	53.000	69	3.15	53.000	94	7.65	52.000
19	-5.85	53.000	45	-1.17	53.000	70	3.33	53.000	95	7.83	52.000
20	-5.67	53.000	46	-0.99	53.000	71	3.51	53.000	96	8.01	52.000
21	-5.49	53.000	47	-0.81	53.000	72	3.69	53.000	97	8.19	52.000
22	-5.31	53.000	48	-0.63	53.000	73	3.87	48.240	98	8.37	52.000
23	-5.13	53.000	49	-0.45	53.000	74	4.05	46.000	99	8.55	52.000
24	-4.95	53.000	50	-0.27	53.000	75	4.23	46.000	100	8.73	52.000
25	-4.77	53.000	51	-0.09	53.000	76	4.41	45.938	101	8.91	52.000
26	-4.59	53.000									

***** JUNCTION SURFACE AREAS (SQFT) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	5.037E+04	27	-4.41	5.037E+04	52	0.09	5.037E+04	77	4.59	4.259E+04
2	-8.91	5.037E+04	28	-4.23	5.037E+04	53	0.27	5.037E+04	78	4.77	4.159E+04
3	-8.73	5.037E+04	29	-4.05	5.037E+04	54	0.45	5.037E+04	79	4.95	4.045E+04
4	-8.55	5.037E+04	30	-3.87	5.037E+04	55	0.63	5.037E+04	80	5.13	3.939E+04
5	-8.37	5.037E+04	31	-3.69	5.037E+04	56	0.81	5.037E+04	81	5.31	4.152E+04
6	-8.19	5.037E+04	32	-3.51	5.037E+04	57	0.99	5.037E+04	82	5.49	4.570E+04
7	-8.01	5.037E+04	33	-3.33	5.037E+04	58	1.17	5.037E+04	83	5.67	4.872E+04
8	-7.83	5.037E+04	34	-3.15	5.037E+04	59	1.35	5.037E+04	84	5.85	4.245E+04

A3 COEFFICIENT FOR FLOW EQUATION -REPRESENTS DEPTH OF FLOW IF A1 AND/OR A2 ARE NOT SPECIFIED (OR ARE ZERO)										
JUNC	RIVER MILE	RIVER NO	RIVER MILE	RIVER NO	RIVER MILE					
9	-7.65	35	-2.97	5.037E+04	60	1.53	5.037E+04	65	6.03	3.618E+04
10	-7.47	36	-2.79	5.037E+04	61	1.71	5.037E+04	66	6.21	2.991E+04
11	-7.29	37	-2.61	5.037E+04	62	1.89	5.037E+04	67	6.39	3.241E+04
12	-7.11	38	-2.43	5.037E+04	63	2.07	5.037E+04	88	6.57	3.743E+04
13	-6.93	39	-2.25	5.037E+04	64	2.25	5.037E+04	89	6.75	4.245E+04
14	-6.75	40	-2.07	5.037E+04	65	2.43	5.037E+04	90	6.93	4.747E+04
15	-6.57	41	-1.89	5.037E+04	66	2.61	5.037E+04	91	7.11	4.942E+04
16	-6.39	42	-1.71	5.037E+04	67	2.79	5.037E+04	92	7.29	4.942E+04
17	-6.21	43	-1.53	5.037E+04	68	2.97	5.037E+04	93	7.47	4.942E+04
18	-6.03	44	-1.35	5.037E+04	69	3.15	5.037E+04	94	7.65	4.942E+04
19	-5.85	45	-1.17	5.037E+04	70	3.33	5.037E+04	95	7.83	4.942E+04
20	-5.67	46	-0.99	5.037E+04	71	3.51	5.037E+04	96	8.01	4.942E+04
21	-5.49	47	-0.81	5.037E+04	72	3.69	5.037E+04	97	8.19	4.942E+04
22	-5.31	48	-0.63	5.037E+04	73	3.87	4.585E+04	98	8.37	4.942E+04
23	-5.13	49	-0.45	5.037E+04	74	4.05	4.372E+04	99	8.55	4.942E+04
24	-4.95	50	-0.27	5.037E+04	75	4.23	4.372E+04	100	8.73	4.942E+04
25	-4.77	51	-0.09	5.037E+04	76	4.41	4.366E+04	101	8.91	4.942E+04
26	-4.59	52								

JUNCTION WATER TEMPERATURES (DEG-C)			
ALL VALUES =	19.140		
INPUTTED OXYGEN SATURATION CONCENTRATIONS (PPM)			
ALL VALUES =	9.250		
NET EVAPORATION - RAINFALL (IN/MO)			
ALL VALUES =	0.000E+00		
OXYGEN UPTAKE OF SEDIMENTS (GM O2/SQM/DAY)			
ALL VALUES =	0.947		
CBOD DEOXYGENATION RATES CORRECTED TO STREAM TEMPS - (1/DAY)			
ALL VALUES =	0.025		
NBOD DEOXYGENATION RATES CORRECTED TO STREAM TEMPS - (1/DAY)			
ALL VALUES =	0.074		
NBOD SEDIMENTATION RATES - (1/DAY), 5X			
ALL VALUES =	5.000E-03		
NONPOINT SOURCE FLOW (CFS/MILE OF STREAM)			
JUNC NO	RIVER MILE	VALUE	JUNC NO MILE
1	-9.09	0.000	27 -4.41
2	-8.91	0.000	28 -4.23
3	-8.73	0.000	29 -4.05
4	-8.55	0.000	30 -3.87
5	-8.37	0.000	31 -3.69
6	-8.19	0.000	32 -3.51
7	-8.01	0.000	33 -3.33
8	-7.83	0.000	34 -3.15
9	-7.65	0.000	35 -2.97
10	-7.47	0.000	36 -2.79
11	-7.29	0.000	37 -2.61
12	-7.11	0.000	38 -2.43
13	-6.93	0.000	39 -2.25
14	-6.75	0.000	40 -2.07
15	-6.57	0.000	41 -1.89
16	-6.39	0.000	42 -1.71
17	-6.21	0.000	43 -1.53
18	-6.03	0.000	44 -1.35
19	-5.85	0.000	45 -1.17
20	-5.67	0.000	46 -0.99
21	-5.49	0.000	47 -0.81
22	-5.31	0.000	48 -0.63
23	-5.13	0.000	49 -0.45
			CBOD SEDIMENTATION RATES - (1/DAY)
			NBOD SEDIMENTATION RATES - (1/DAY)
			CBOD DEOXYGENATION RATES CORRECTED TO STREAM TEMPS - (1/DAY)
			NET EVAPORATION - RAINFALL (IN/MO)
			INPUTTED OXYGEN SATURATION CONCENTRATIONS (PPM)
			JUNCTION WATER TEMPERATURES (DEG-C)

24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	6.73	0.630
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.630
26	-4.59	0.000									

***** NBOD NONPOINT SOURCE CONTRIBUTION (LB/SNBOD/DAY/MILE OF STREAM) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	15.000	27	-4.41	15.000	52	0.09	15.000	77	4.59	14.629
2	-8.91	15.000	28	-4.23	15.000	53	0.27	15.000	78	4.77	13.888
3	-8.73	15.000	29	-4.05	15.000	54	0.45	15.000	79	4.95	13.147
4	-8.55	15.000	30	-3.87	15.000	55	0.63	15.000	80	5.13	12.406
5	-8.37	15.000	31	-3.69	15.000	56	0.81	15.000	81	5.31	11.665
6	-8.19	15.000	32	-3.51	15.000	57	0.99	15.000	82	5.49	10.924
7	-8.01	15.000	33	-3.33	15.000	58	1.17	15.000	83	5.67	10.182
8	-7.83	15.000	34	-3.15	15.000	59	1.35	15.000	84	5.85	9.441
9	-7.65	15.000	35	-2.97	15.000	60	1.53	15.000	85	6.03	8.700
10	-7.47	15.000	36	-2.79	15.000	61	1.71	15.000	86	6.21	7.400
11	-7.29	15.000	37	-2.61	15.000	62	1.89	15.000	87	6.39	5.233
12	-7.11	15.000	38	-2.43	15.000	63	2.07	15.000	88	6.57	5.533
13	-6.93	15.000	39	-2.25	15.000	64	2.25	15.000	89	6.75	5.833
14	-6.75	15.000	40	-2.07	15.000	65	2.43	15.000	90	6.93	6.133
15	-6.57	15.000	41	-1.89	15.000	66	2.61	15.000	91	7.11	6.433
16	-6.39	15.000	42	-1.71	15.000	67	2.79	15.000	92	7.29	6.733
17	-6.21	15.000	43	-1.53	15.000	68	2.97	15.000	93	7.47	7.033
18	-6.03	15.000	44	-1.35	15.000	69	3.15	15.000	94	7.65	7.333
19	-5.85	15.000	45	-1.17	15.000	70	3.33	15.000	95	7.83	7.633
20	-5.67	15.000	46	-0.99	15.000	71	3.51	15.000	96	8.01	7.933
21	-5.49	15.000	47	-0.81	15.000	72	3.69	15.000	97	8.19	8.000
22	-5.31	15.000	48	-0.63	15.000	73	3.87	15.000	98	8.37	8.000
23	-5.13	15.000	49	-0.45	15.000	74	4.05	15.000	99	8.55	8.000
24	-4.95	15.000	50	-0.27	15.000	75	4.23	15.000	100	8.73	8.000
25	-4.77	15.000	51	-0.09	15.000	76	4.41	15.000	101	8.91	8.000
26	-4.59	15.000									

***** CBOD NONPOINT SOURCE CONTRIBUTION (LB/SCBOD/DAY/MILE OF STREAM) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	4.000	27	-4.41	4.000	52	0.09	4.000	77	4.59	4.000
2	-8.91	4.000	28	-4.23	4.000	53	0.27	4.000	78	4.77	4.000
3	-8.73	4.000	29	-4.05	4.000	54	0.45	4.000	79	4.95	4.000
4	-8.55	4.000	30	-3.87	4.000	55	0.63	4.000	80	5.13	4.000
5	-8.37	4.000	31	-3.69	4.000	56	0.81	4.000	81	5.31	4.000
6	-8.19	4.000	32	-3.51	4.000	57	0.99	4.000	82	5.49	4.000
7	-8.01	4.000	33	-3.33	4.000	58	1.17	4.000	83	5.67	4.000
8	-7.83	4.000	34	-3.15	4.000	59	1.35	4.000	84	5.85	4.000
9	-7.65	4.000	35	-2.97	4.000	60	1.53	4.000	85	6.03	4.000
10	-7.47	4.000	36	-2.79	4.000	61	1.71	4.000	86	6.21	4.000
11	-7.29	4.000	37	-2.61	4.000	62	1.89	4.000	87	6.39	4.000
12	-7.11	4.000	38	-2.43	4.000	63	2.07	4.000	88	6.57	4.000

O2 NONPOINT SOURCE CONTRIBUTIONS (LBS O2/DAY/MILE OF STREAM)						
JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE
1	-9.09	0	0.000	27	-4.41	0.000
2	-8.91	0	0.000	28	-4.23	0.000
3	-8.73	0	0.000	29	-4.05	0.000
4	-8.55	0	0.000	30	-3.87	0.000
5	-8.37	0	0.000	31	-3.69	0.000
6	-8.19	0	0.000	32	-3.51	0.000
7	-8.01	0	0.000	33	-3.33	0.000
8	-7.83	0	0.000	34	-3.15	0.000
9	-7.65	0	0.000	35	-2.97	0.000
10	-7.47	0	0.000	36	-2.79	0.000
11	-7.29	0	0.000	37	-2.61	0.000
12	-7.11	0	0.000	38	-2.43	0.000
13	-6.93	0	0.000	39	-2.25	0.000
14	-6.75	0	0.000	40	-2.07	0.000
15	-6.57	0	0.000	41	-1.89	0.000
16	-6.39	0	0.000	42	-1.71	0.000
17	-6.21	0	0.000	43	-1.53	0.000
18	-6.03	0	0.000	44	-1.35	0.000
19	-5.85	0	0.000	45	-1.17	0.000
20	-5.67	0	0.000	46	-0.99	0.000
21	-5.49	0	0.000	47	-0.81	0.000
22	-5.31	0	0.000	48	-0.63	0.000
23	-5.13	0	0.000	49	-0.45	0.000
24	-4.95	0	0.000	50	-0.27	0.000
25	-4.77	0	0.000	51	-0.09	0.000
26	-4.59	0	0.000			

***** ALL VALUES = 0.000E+00 DISPERSION COEFFICIENTS (SQFT/SEC) *****

***** ALL VALUES = 0.000E+00 AVERAGE DAILY PHOTOSYNTHESIS-RESPIRATION RATE (GM O2/SQM/DAY) CORRECTED TO STREAM TEMPERATURES *****

***** ALL VALUES = 0.000E+00 RIVER MILE VALUE *****

DEPTH OR VELOCITY DEPENDENT VARIABLES

CROSSECTIONAL AREAS OF JUNCT*NS (SQFT)						JUNCT*N DEPTHS (FT)					
JUNC NO	RIVER MILE	JUNC VALUE	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO	RIVER MILE
1	-9.09	80.030	2.7	-4.41	80.030	52	0.09	80.030	77	4.59	79.313
2	-8.91	80.030	-4.23	80.030	53	0.27	80.030	78	4.77	79.386	
3	-8.73	80.030	2.9	-4.05	80.030	54	0.45	80.030	79	4.95	79.352
4	-8.55	80.030	3.0	-3.87	80.030	55	0.63	80.030	80	5.13	79.213
5	-8.37	80.030	3.1	-3.69	80.030	56	0.81	80.030	81	5.31	79.941
6	-8.19	80.030	3.2	-3.51	80.030	57	0.99	80.030	82	5.49	80.105
7	-8.01	80.030	3.3	-3.33	80.030	58	1.17	80.030	83	5.67	78.609
8	-7.83	80.030	3.4	-3.15	80.030	59	1.35	80.030	84	5.85	73.849
9	-7.65	80.030	3.5	-2.97	80.030	60	1.53	80.030	85	6.03	67.505
10	-7.47	80.030	3.6	-2.79	80.030	61	1.71	80.030	86	6.21	59.577
11	-7.29	80.030	3.7	-2.61	80.030	62	1.89	80.030	87	6.39	57.807
12	-7.11	80.030	3.8	-2.43	80.030	63	2.07	80.030	88	6.57	55.356
13	-6.93	80.030	3.9	-2.25	80.030	64	2.25	80.030	89	6.75	49.848
14	-6.75	80.030	4.0	-2.07	80.030	65	2.43	80.030	90	6.93	41.284
15	-6.57	80.030	4.1	-1.89	80.030	66	2.61	80.030	91	7.11	37.128
16	-6.39	80.030	4.2	-1.71	80.030	67	2.79	80.030	92	7.29	37.128
17	-6.21	80.030	4.3	-1.53	80.030	68	2.97	80.030	93	7.47	37.128
18	-6.03	80.030	4.4	-1.35	80.030	69	3.15	80.030	94	7.65	37.128
19	-5.85	80.030	4.5	-1.17	80.030	70	3.33	80.030	95	7.83	37.128
20	-5.67	80.030	4.6	-0.99	80.030	71	3.51	80.030	96	8.01	37.128
21	-5.49	80.030	4.7	-0.81	80.030	72	3.69	80.030	97	8.19	37.128
22	-5.31	80.030	4.8	-0.63	80.030	73	3.87	80.030	98	8.37	37.128
23	-5.13	80.030	4.9	-0.45	80.030	74	4.05	79.836	99	8.55	37.128
24	-4.95	80.030	5.0	-0.27	80.030	75	4.23	79.468	100	8.73	37.128
25	-4.77	80.030	5.1	-0.09	80.030	76	4.41	79.133	101	8.91	37.128
26	-4.59	80.030									
JUNCT*N DEPTHS (FT)						JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO	RIVER MILE
JUNC NO	RIVER MILE	JUNC VALUE	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO	RIVER MILE
1	-9.09	1.510	2.7	-4.41	1.510	52	0.09	1.510	77	4.59	1.770
2	-8.91	1.510	2.8	-4.23	1.510	53	0.27	1.510	78	4.77	1.817
3	-8.73	1.510	2.9	-4.05	1.510	54	0.45	1.510	79	4.95	1.864
4	-8.55	1.510	3.0	-3.87	1.510	55	0.63	1.510	80	5.13	1.912
5	-8.37	1.510	3.1	-3.69	1.510	56	0.81	1.510	81	5.31	1.830
6	-8.19	1.510	3.2	-3.51	1.510	57	0.99	1.510	82	5.49	1.666
7	-8.01	1.510	3.3	-3.33	1.510	58	1.17	1.510	83	5.67	1.533
8	-7.83	1.510	3.4	-3.15	1.510	59	1.35	1.510	84	5.85	1.653
9	-7.65	1.510	3.5	-2.97	1.510	60	1.53	1.510	85	6.03	1.773
10	-7.47	1.510	3.6	-2.79	1.510	61	1.71	1.510	86	6.21	1.893

***** JUNCTION VELOCITIES (FT/SEC) *****				***** JUNCTION VOLUMES (CUFT) *****			
JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO	RIVER MILE
11	-7.29	1.510	37	-2.61	1.510	62	1.510
12	-7.11	1.510	38	-2.43	1.510	63	2.07
13	-6.93	1.510	39	-2.25	1.510	64	2.25
14	-6.75	1.510	40	-2.07	1.510	65	2.43
15	-6.57	1.510	41	-1.89	1.510	66	2.61
16	-6.39	1.510	42	-1.71	1.510	67	2.79
17	-6.21	1.510	43	-1.53	1.510	68	2.97
18	-6.03	1.510	44	-1.35	1.510	69	3.15
19	-5.85	1.510	45	-1.17	1.510	70	3.33
20	-5.67	1.510	46	-0.99	1.510	71	3.51
21	-5.49	1.510	47	-0.81	1.510	72	3.69
22	-5.31	1.510	48	-0.63	1.510	73	3.87
23	-5.13	1.510	49	-0.45	1.510	74	4.05
24	-4.95	1.510	50	-0.27	1.510	75	4.23
25	-4.77	1.510	51	-0.09	1.510	76	4.41
26	-4.59	1.510				1.723	101
						0.91	8.91
							0.714
							0.695
							0.675
							0.655
							0.635
							0.615
							0.595
							0.575
							0.555
							0.535
							0.515
							0.495
							0.475
							0.455
							0.435
							0.415
							0.395
							0.375
							0.355
							0.335
							0.315
							0.295
							0.275
							0.255
							0.235
							0.215
							0.195
							0.175
							0.155
							0.135
							0.115
							0.095
							0.075
							0.055
							0.035
							0.015
							0.005
							0.003
							0.002
							0.001
							0.000

NO	MILE	VALUE	MILE	NO	MILE	VALUE	MILE	NO	MILE	VALUE	
1	-9.09	7.606E+04	27	-4.41	7.606E+04	52	0.09	7.606E+04	77	4.59	7.538E+04
2	-8.91	7.606E+04	28	-4.23	7.606E+04	53	0.27	7.606E+04	78	4.77	7.545E+04
3	-8.73	7.606E+04	29	-4.05	7.606E+04	54	0.45	7.606E+04	79	4.95	7.542E+04
4	-8.55	7.606E+04	30	-3.87	7.606E+04	55	0.63	7.606E+04	80	5.13	7.528E+04
5	-8.37	7.606E+04	31	-3.69	7.606E+04	56	0.81	7.606E+04	81	5.31	7.598E+04
6	-8.19	7.606E+04	32	-3.51	7.606E+04	57	0.99	7.606E+04	82	5.49	7.613E+04
7	-8.01	7.606E+04	33	-3.33	7.606E+04	58	1.17	7.606E+04	83	5.67	7.471E+04
8	-7.83	7.606E+04	34	-3.15	7.606E+04	59	1.35	7.606E+04	84	5.85	7.019E+04
9	-7.65	7.606E+04	35	-2.97	7.606E+04	60	1.53	7.606E+04	85	6.03	6.416E+04
10	-7.47	7.606E+04	36	-2.79	7.606E+04	61	1.71	7.606E+04	86	6.21	5.662E+04
11	-7.29	7.606E+04	37	-2.61	7.606E+04	62	1.89	7.606E+04	87	6.39	5.494E+04
12	-7.11	7.606E+04	38	-2.43	7.606E+04	63	2.07	7.606E+04	88	6.57	5.261E+04
13	-6.93	7.606E+04	39	-2.25	7.606E+04	64	2.25	7.606E+04	89	6.75	4.738E+04
14	-6.75	7.606E+04	40	-2.07	7.606E+04	65	2.43	7.606E+04	90	6.93	3.924E+04
15	-6.57	7.606E+04	41	-1.89	7.606E+04	66	2.61	7.606E+04	91	7.11	3.529E+04
16	-6.39	7.606E+04	42	-1.71	7.606E+04	67	2.79	7.606E+04	92	7.29	3.529E+04
17	-6.21	7.606E+04	43	-1.53	7.606E+04	68	2.97	7.606E+04	93	7.47	3.529E+04
18	-6.03	7.606E+04	44	-1.35	7.606E+04	69	3.15	7.606E+04	94	7.65	3.529E+04
19	-5.85	7.606E+04	45	-1.17	7.606E+04	70	3.33	7.606E+04	95	7.83	3.529E+04
20	-5.67	7.606E+04	46	-0.99	7.606E+04	71	3.51	7.606E+04	96	8.01	3.529E+04
21	-5.49	7.606E+04	47	-0.81	7.606E+04	72	3.69	7.606E+04	97	8.19	3.529E+04
22	-5.31	7.606E+04	48	-0.63	7.606E+04	73	3.87	7.640E+04	98	8.37	3.529E+04
23	-5.13	7.606E+04	49	-0.45	7.606E+04	74	4.05	7.588E+04	99	8.55	3.529E+04
24	-4.95	7.606E+04	50	-0.27	7.606E+04	75	4.23	7.552E+04	100	8.73	3.529E+04
25	-4.77	7.606E+04	51	-0.09	7.606E+04	76	4.41	7.521E+04	101	8.91	3.529E+04
26	-4.59	7.606E+04									

***** ISACCS AND GAUDY CORRELATION *****

WIND INDUCED REAERATION WAS USED FOR THE FOLLOW SEGMENTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	
91	92	93	94	95	96	97	98	99	100	101																				

***** COMPUTED REAERATION RATES (1/DAY) *****

JUNC	RIVER	RIVER	JUNC	RIVER	RIVER	JUNC	RIVER	JUNC	RIVER	MILE	VALUE	JUNC	RIVER	MILE	VALUE	JUNC	RIVER	MILE	VALUE
1	-9.09	1.233	27	-4.41	1.233	52	0.09	1.233	52	0.09	1.233	77	4.59	1.052					
2	-8.91	1.233	28	-4.23	1.233	53	0.27	1.233	53	0.27	1.233	78	4.77	1.024					
3	-8.73	1.233	29	-4.05	1.233	54	0.45	1.233	54	0.45	1.233	79	4.95	0.999					
4	-8.55	1.233	30	-3.87	1.233	55	0.63	1.233	55	0.63	1.233	80	5.13	0.974					
5	-8.37	1.233	31	-3.69	1.233	56	0.81	1.233	56	0.81	1.233	81	5.31	1.017					
6	-8.19	1.233	32	-3.51	1.233	57	0.99	1.233	57	0.99	1.233	82	5.49	1.118					
7	-8.01	1.233	33	-3.33	1.233	58	1.17	1.233	58	1.17	1.233	83	5.67	1.214					
8	-7.83	1.233	34	-3.15	1.233	59	1.35	1.233	59	1.35	1.233	84	5.85	1.126					
9	-7.65	1.233	35	-2.97	1.233	60	1.53	1.233	60	1.53	1.233	85	6.03	1.050					
10	-7.47	1.233	36	-2.79	1.233	61	1.71	1.233	61	1.71	1.233	86	6.21	0.983					
11	-7.29	1.233	37	-2.61	1.233	62	1.89	1.233	62	1.89	1.233	87	6.39	1.098					
12	-7.11	1.233	38	-2.43	1.233	63	2.07	1.233	63	2.07	1.233	88	6.57	1.325					

13	-6.93	1.233	39	-2.25	1.233	64	2.25	1.233	89	6.75	1.668
14	-6.75	1.233	40	-2.07	1.233	65	2.43	1.233	90	6.93	2.252
15	-6.57	1.233	41	-1.89	1.233	66	2.61	1.233	91	7.11	2.607
16	-6.39	1.233	42	-1.71	1.233	67	2.79	1.233	92	7.29	2.607
17	-6.21	1.233	43	-1.53	1.233	68	2.97	1.233	93	7.47	2.607
18	-6.03	1.233	44	-1.35	1.233	69	3.15	1.233	94	7.65	2.607
19	-5.85	1.233	45	-1.17	1.233	70	3.33	1.233	95	7.83	2.607
20	-5.67	1.233	46	-0.99	1.233	71	3.51	1.233	96	8.01	2.607
21	-5.49	1.233	47	-0.81	1.233	72	3.69	1.233	97	8.19	2.607
22	-5.31	1.233	48	-0.63	1.233	73	3.87	1.117	98	8.37	2.607
23	-5.13	1.233	49	-0.45	1.233	74	4.05	1.073	99	8.55	2.607
24	-4.95	1.233	50	-0.27	1.233	75	4.23	1.078	100	8.73	2.607
25	-4.77	1.233	51	-0.09	1.233	76	4.41	1.081	101	8.91	2.607
26	-4.59	1.233									

STEADY STATE FLOW CONDITIONS						
TOTAL INFLOWS = 6.3 CFS						
TOTAL DIVERIONS = 0.0 CFS						
OUTFLOW AT DOWNSTREAM JUNCTION = 6.3 CFS						

POINT SOURCE INFLOWS (CFS)						
JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO
1	-9.09	0.000	27	-4.41	0.000	52
2	-8.91	0.000	28	-4.23	0.000	53
3	-8.73	0.000	29	-4.05	0.000	54
4	-8.55	0.000	30	-3.87	0.000	55
5	-8.37	0.000	31	-3.69	0.000	56
6	-8.19	0.000	32	-3.51	0.000	57
7	-8.01	0.000	33	-3.33	0.000	58
8	-7.83	0.000	34	-3.15	0.000	59
9	-7.65	0.000	35	-2.97	0.000	60
10	-7.47	0.000	36	-2.79	0.000	61
11	-7.29	0.000	37	-2.61	0.000	62
12	-7.11	0.000	38	-2.43	0.000	63
13	-6.93	0.000	39	-2.25	0.000	64
14	-6.75	0.000	40	-2.07	0.000	65
15	-6.57	0.000	41	-1.89	0.000	66
16	-6.39	0.000	42	-1.71	0.000	67
17	-6.21	0.000	43	-1.53	0.000	68
18	-6.03	0.000	44	-1.35	0.000	69
19	-5.85	0.000	45	-1.17	0.000	70
20	-5.67	0.000	46	-0.99	0.000	71
21	-5.49	0.000	47	-0.81	0.000	72
22	-5.31	0.000	48	-0.63	0.000	73
23	-5.13	0.000	49	-0.45	0.000	74
24	-4.95	0.000	50	-0.27	0.000	75
25	-4.77	0.000	51	-0.09	0.000	76
26	-4.59	0.000				4.41
NONPOINT SOURCE INFLOWS (CFS) (EXCLUDING RAINFALL)						
JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO
1	-9.09	0.000	27	-4.41	0.000	52
2	-8.91	0.000	28	-4.23	0.000	53
3	-8.73	0.000	29	-4.05	0.000	54
4	-8.55	0.000	30	-3.87	0.000	55
5	-8.37	0.000	31	-3.69	0.000	56
6	-8.19	0.000	32	-3.51	0.000	57

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO
1	-9.09	0.000	27	-4.41	0.000	52
2	-8.91	0.000	28	-4.23	0.000	53
3	-8.73	0.000	29	-4.05	0.000	54
4	-8.55	0.000	30	-3.87	0.000	55
5	-8.37	0.000	31	-3.69	0.000	56
6	-8.19	0.000	32	-3.51	0.000	57

POINT DIVERSIONS (CFS)							
JUNC NO	RIVER MILE	JUNC VALUE	RIVER MILE	JUNC VALUE	RIVER MILE	JUNC VALUE	
1	-9.09	6.265	27	-4.41	0.000	52	0.09
2	-8.91	0.000	28	-4.23	0.000	53	0.27
3	-8.73	0.000	29	-4.05	0.000	54	0.45
4	-8.55	0.000	30	-3.87	0.000	55	0.63
5	-8.37	0.000	31	-3.69	0.000	56	0.81
6	-8.19	0.000	32	-3.51	0.000	57	0.99
7	-8.01	0.000	33	-3.33	0.000	58	1.17
8	-7.83	0.000	34	-3.15	0.000	59	1.35
9	-7.65	0.000	35	-2.97	0.000	60	1.53
10	-7.47	0.000	36	-2.79	0.000	61	1.71
11	-7.29	0.000	37	-2.61	0.000	62	1.89
12	-7.11	0.000	38	-2.43	0.000	63	2.07
13	-6.93	0.000	39	-2.25	0.000	64	2.25
14	-6.75	0.000	40	-2.07	0.000	65	2.43
15	-6.57	0.000	41	-1.89	0.000	66	2.61
16	-6.39	0.000	42	-1.71	0.000	67	2.79
17	-6.21	0.000	43	-1.53	0.000	68	2.97
18	-6.03	0.000	44	-1.35	0.000	69	3.15
19	-5.85	0.000	45	-1.17	0.000	70	3.33
20	-5.67	0.000	46	-0.99	0.000	71	3.51
21	-5.49	0.000	47	-0.81	0.000	72	3.69
22	-5.31	0.000	48	-0.63	0.000	73	3.87
23	-5.13	0.000	49	-0.45	0.000	74	4.05
24	-4.95	0.000	50	-0.27	0.000	75	4.23
25	-4.77	0.000	51	-0.09	0.000	76	4.41
26	-4.59	0.000			0.000	76	4.41

RIVER MILE						
JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO
1	-9.09	6.265	27	-4.41	0.000	52
2	-8.91	0.000	28	-4.23	0.000	53
3	-8.73	0.000	29	-4.05	0.000	54
4	-8.55	0.000	30	-3.87	0.000	55
5	-8.37	0.000	31	-3.69	0.000	56
6	-8.19	0.000	32	-3.51	0.000	57
7	-8.01	0.000	33	-3.33	0.000	58
8	-7.83	0.000	34	-3.15	0.000	59
9	-7.65	0.000	35	-2.97	0.000	60
10	-7.47	0.000	36	-2.79	0.000	61
11	-7.29	0.000	37	-2.61	0.000	62
12	-7.11	0.000	38	-2.43	0.000	63
13	-6.93	0.000	39	-2.25	0.000	64
14	-6.75	0.000	40	-2.07	0.000	65
15	-6.57	0.000	41	-1.89	0.000	66
16	-6.39	0.000	42	-1.71	0.000	67
17	-6.21	0.000	43	-1.53	0.000	68
18	-6.03	0.000	44	-1.35	0.000	69
19	-5.85	0.000	45	-1.17	0.000	70
20	-5.67	0.000	46	-0.99	0.000	71
21	-5.49	0.000	47	-0.81	0.000	72
22	-5.31	0.000	48	-0.63	0.000	73
23	-5.13	0.000	49	-0.45	0.000	74
24	-4.95	0.000	50	-0.27	0.000	75
25	-4.77	0.000	51	-0.09	0.000	76
26	-4.59	0.000			0.000	76

***** ALL VALUES = 0.000E+00 NONPOINT DIVERSIONS OR LOSSES (CFS) (EXCLUDING EVAPORATION) *****

***** JUNCT*N FLOWS (CFS) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	-6.265	27	-4.41	-6.265	52	0.09	-6.265	77	4.59	-6.091
2	-8.91	-6.265	28	-4.23	-6.265	53	0.27	-6.265	78	4.77	-6.091
3	-8.73	-6.265	29	-4.05	-6.265	54	0.45	-6.265	79	4.95	-6.091
4	-8.55	-6.265	30	-3.87	-6.265	55	0.63	-6.265	80	5.13	-6.091
5	-8.37	-6.265	31	-3.69	-6.265	56	0.81	-6.265	81	5.31	-6.091
6	-8.19	-6.265	32	-3.51	-6.265	57	0.99	-6.265	82	5.49	-6.091
7	-8.01	-6.265	33	-3.33	-6.265	58	1.17	-6.265	83	5.67	-6.091
8	-7.83	-6.265	34	-3.15	-6.265	59	1.35	-6.265	84	5.85	-5.512
9	-7.65	-6.265	35	-2.97	-6.265	60	1.53	-6.265	85	6.03	-5.512
10	-7.47	-6.265	36	-2.79	-6.265	61	1.71	-6.265	86	6.21	-5.489
11	-7.29	-6.265	37	-2.61	-6.265	62	1.89	-6.265	87	6.39	-5.376
12	-7.11	-6.265	38	-2.43	-6.265	63	2.07	-6.265	88	6.57	-5.262
13	-6.93	-6.265	39	-2.25	-6.265	64	2.25	-6.265	89	6.75	-5.149
14	-6.75	-6.265	40	-2.07	-6.265	65	2.43	-6.265	90	6.93	-5.035
15	-6.57	-6.265	41	-1.89	-6.265	66	2.61	-6.265	91	7.11	-4.922
16	-6.39	-6.265	42	-1.71	-6.265	67	2.79	-6.265	92	7.29	-4.809
17	-6.21	-6.265	43	-1.53	-6.265	68	2.97	-6.265	93	7.47	-4.695
18	-6.03	-6.265	44	-1.35	-6.265	69	3.15	-6.265	94	7.65	-4.582
19	-5.85	-6.265	45	-1.17	-6.265	70	3.33	-6.265	95	7.83	-4.429
20	-5.67	-6.265	46	-0.99	-6.265	71	3.51	-6.265	96	8.01	-4.016
21	-5.49	-6.265	47	-0.81	-6.265	72	3.69	-6.265	97	8.19	-3.903
22	-5.31	-6.265	48	-0.63	-6.265	73	3.87	-6.265	98	8.37	-3.789
23	-5.13	-6.265	49	-0.45	-6.265	74	4.05	-6.265	99	8.55	-3.676
24	-4.95	-6.265	50	-0.27	-6.265	75	4.23	-6.091	100	8.73	-3.562
25	-4.77	-6.265	51	-0.09	-6.265	76	4.41	-6.091	101	8.91	-3.449
26	-4.59	-6.265									

***** RESIDENCE TIME (DAYS) *****

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	13.623	27	-4.41	9.969	52	0.09	6.156	77	4.59	2.937
2	-8.91	13.482	28	-4.23	9.829	53	0.27	6.316	78	4.77	2.794
3	-8.73	13.342	29	-4.05	9.688	54	0.45	6.175	79	4.95	2.651
4	-8.55	13.201	30	-3.87	9.548	55	0.63	6.035	80	5.13	2.507
5	-8.37	13.061	31	-3.69	9.407	56	0.81	5.894	81	5.31	2.364
6	-8.19	12.920	32	-3.51	9.267	57	0.99	5.754	82	5.49	2.220
7	-8.01	12.780	33	-3.33	9.126	58	1.17	5.613	83	5.67	2.075
8	-7.83	12.639	34	-3.15	8.986	59	1.35	5.473	84	5.85	1.933
9	-7.65	12.499	35	-2.97	8.845	60	1.53	5.332	85	6.03	1.786
10	-7.47	12.358	36	-2.79	8.705	61	1.71	5.191	86	6.21	1.651
11	-7.29	12.218	37	-2.61	8.564	62	1.89	5.051	87	6.39	1.532
12	-7.11	12.077	38	-2.43	8.423	63	2.07	4.910	88	6.57	1.414
13	-6.93	11.937	39	-2.25	8.283	64	2.25	4.770	89	6.75	1.298

14	-6.75	11.796	40	-2.07	8.142	65	2.43	4.629	90	6.93	1.191
15	-6.57	11.656	41	-1.89	8.002	66	2.61	4.489	91	7.11	1.101
16	-6.39	11.515	42	-1.71	7.861	67	2.79	4.348	92	7.29	1.018
17	-6.21	11.374	43	-1.53	7.721	68	2.97	4.208	93	7.47	0.933
18	-6.03	11.234	44	-1.35	7.580	69	3.15	4.067	94	7.65	0.846
19	-5.85	11.093	45	-1.17	7.440	70	3.33	3.927	95	7.83	0.757
20	-5.67	10.953	46	-0.99	7.299	71	3.51	3.786	96	8.01	0.658
21	-5.49	10.812	47	-0.81	7.159	72	3.69	3.646	97	8.19	0.557
22	-5.31	10.672	48	-0.63	7.018	73	3.87	3.505	98	8.37	0.452
23	-5.13	10.531	49	-0.45	6.878	74	4.05	3.364	99	8.55	0.344
24	-4.95	10.391	50	-0.27	6.737	75	4.23	3.224	100	8.73	0.233
25	-4.77	10.250	51	-0.09	6.597	76	4.41	3.080	101	8.91	0.118
26	-4.59	10.110									

***** STEADY STATE NBOD INPUT CONDITIONS *****

***** POINT SOURCE INFLOW CONCENTRATIONS (PPM) *****

JUNC	RIVER MILE	VALUE	JUNC	RIVER MILE	VALUE	JUNC	RIVER MILE	VALUE	JUNC	RIVER MILE	VALUE
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	64.500
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	64.500
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	64.500	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	8.770
26	-4.59	0.000									

***** NONPOINT SOURCE LOADS (LBS/DAY) *****

JUNC	RIVER MILE	VALUE									
1	-9.09	2.700	27	-4.41	2.700	52	0.09	2.700	77	4.59	2.633
2	-8.91	2.700	28	-4.23	2.700	53	0.27	2.700	78	4.77	2.500
3	-8.73	2.700	29	-4.05	2.700	54	0.45	2.700	79	4.95	2.366
4	-8.55	2.700	30	-3.87	2.700	55	0.63	2.700	80	5.13	2.233
5	-8.37	2.700	31	-3.69	2.700	56	0.81	2.700	81	5.31	2.100
6	-8.19	2.700	32	-3.51	2.700	57	0.99	2.700	82	5.49	1.966

7	-8.01	2.700	33	-3.33	2.700	58	1.17	2.700	83	5.67	1.833
8	-7.83	2.700	34	-3.15	2.700	59	1.35	2.700	84	5.85	1.699
9	-7.65	2.700	35	-2.97	2.700	60	1.53	2.700	85	6.03	1.566
10	-7.47	2.700	36	-2.79	2.700	61	1.71	2.700	86	6.21	1.332
11	-7.29	2.700	37	-2.61	2.700	62	1.89	2.700	87	6.39	0.942
12	-7.11	2.700	38	-2.43	2.700	63	2.07	2.700	88	6.57	0.996
13	-6.93	2.700	39	-2.25	2.700	64	2.25	2.700	89	6.75	1.050
14	-6.75	2.700	40	-2.07	2.700	65	2.43	2.700	90	6.93	1.104
15	-6.57	2.700	41	-1.89	2.700	66	2.61	2.700	91	7.11	1.158
16	-6.39	2.700	42	-1.71	2.700	67	2.79	2.700	92	7.29	1.212
17	-6.21	2.700	43	-1.53	2.700	68	2.97	2.700	93	7.47	1.266
18	-6.03	2.700	44	-1.35	2.700	69	3.15	2.700	94	7.65	1.320
19	-5.85	2.700	45	-1.17	2.700	70	3.33	2.700	95	7.83	1.374
20	-5.67	2.700	46	-0.99	2.700	71	3.51	2.700	96	8.01	1.428
21	-5.49	2.700	47	-0.81	2.700	72	3.69	2.700	97	8.19	1.440
22	-5.31	2.700	48	-0.63	2.700	73	3.87	2.700	98	8.37	1.440
23	-5.13	2.700	49	-0.45	2.700	74	4.05	2.700	99	8.55	1.440
24	-4.95	2.700	50	-0.27	2.700	75	4.23	2.700	100	8.73	1.440
25	-4.77	2.700	51	-0.09	2.700	76	4.41	2.700	101	8.91	1.440
26	-4.59	2.700									

Red Chute Bayou TMDL 3015 treatment 2 effluent DO
 STEADY STATE NBOD CONCENTRATIONS (PPM)
 OUTFLOW AT DOWNSTREAM END = 6.3 CFS

CONCENTRATIONS (PPM)					
JUNC	RIVER MILE	VALUE	JUNC	RIVER MILE	VALUE
1	-9.09	10.564	NO	11.702	0.09
2	-8.91	10.602	27	-4.41	11.753
3	-8.73	10.641	28	-4.23	53
4	-8.55	10.680	29	-4.05	11.804
5	-8.37	10.719	30	-3.87	11.856
6	-8.19	10.759	31	-3.69	11.908
7	-8.01	10.799	32	-3.51	11.961
8	-7.83	10.839	33	-3.33	12.015
9	-7.65	10.880	34	-3.15	12.069
10	-7.47	10.922	35	-2.97	12.124
11	-7.29	10.964	36	-2.79	12.179
12	-7.11	11.006	37	-2.61	12.235
13	-6.93	11.049	38	-2.43	12.292
14	-6.75	11.092	39	-2.25	12.349
15	-6.57	11.136	40	-2.07	12.407
16	-6.39	11.181	41	-1.89	12.466
17	-6.21	11.225	42	-1.71	12.525
18	-6.03	11.271	43	-1.53	12.585
19	-5.85	11.317	44	-1.35	12.645
20	-5.67	11.363	45	-1.17	12.706
21	-5.49	11.410	46	-0.99	12.768
22	-5.31	11.457	47	-0.81	12.831
23	-5.13	11.505	48	-0.63	12.894
24	-4.95	11.554	49	-0.45	12.956
25	-4.77	11.603	50	-0.27	13.023
26	-4.59	11.652	51	-0.09	13.088

***** STEADY STATE CBOD INPUT CONDITIONS *****

***** POINT SOURCE INFLOW CONCENTRATIONS (PPM) *****

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	69.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	69.000
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	69.000	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	4.550
26	-4.59	0.000									

***** NONPOINT SOURCE LOADS (LBS/DAY) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	0.720	27	-4.41	0.720	52	0.09	0.720	77	4.59	0.720
2	-8.91	0.720	28	-4.23	0.720	53	0.27	0.720	78	4.77	0.720
3	-8.73	0.720	29	-4.05	0.720	54	0.45	0.720	79	4.95	0.720
4	-8.55	0.720	30	-3.87	0.720	55	0.63	0.720	80	5.13	0.720
5	-8.37	0.720	31	-3.69	0.720	56	0.81	0.720	81	5.31	0.720
6	-8.19	0.720	32	-3.51	0.720	57	0.99	0.720	82	5.49	0.720

7	-8.01	0.720	33	-3.33	0.720	58	1.17	0.720	83	5.67	0.720
8	-7.83	0.720	34	-3.15	0.720	59	1.35	0.720	84	5.85	0.720
9	-7.65	0.720	35	-2.97	0.720	60	1.53	0.720	85	6.03	0.720
10	-7.47	0.720	36	-2.79	0.720	61	1.71	0.720	86	6.21	0.792
11	-7.29	0.720	37	-2.61	0.720	62	1.89	0.720	87	6.39	1.080
12	-7.11	0.720	38	-2.43	0.720	63	2.07	0.720	88	6.57	1.080
13	-6.93	0.720	39	-2.25	0.720	64	2.25	0.720	89	6.75	1.080
14	-6.75	0.720	40	-2.07	0.720	65	2.43	0.720	90	6.93	1.080
15	-6.57	0.720	41	-1.89	0.720	66	2.61	0.720	91	7.11	1.080
16	-6.39	0.720	42	-1.71	0.720	67	2.79	0.720	92	7.29	1.080
17	-6.21	0.720	43	-1.53	0.720	68	2.97	0.720	93	7.47	1.080
18	-6.03	0.720	44	-1.35	0.720	69	3.15	0.720	94	7.65	1.080
19	-5.85	0.720	45	-1.17	0.720	70	3.33	0.720	95	7.83	1.080
20	-5.67	0.720	46	-0.99	0.720	71	3.51	0.720	96	8.01	1.080
21	-5.49	0.720	47	-0.81	0.720	72	3.69	0.720	97	8.19	1.080
22	-5.31	0.720	48	-0.63	0.720	73	3.87	0.720	98	8.37	1.080
23	-5.13	0.720	49	-0.45	0.720	74	4.05	0.720	99	8.55	1.080
24	-4.95	0.720	50	-0.27	0.720	75	4.23	0.720	100	8.73	1.080
25	-4.77	0.720	51	-0.09	0.720	76	4.41	0.720	101	8.91	1.080
26	-4.59	0.720									

Red Chute Bayou TMDL 30/15 treatment 2 effluent DO

STEADY STATE CBOD CONCENTRATIONS (PPM)

OUTFLOW AT DOWNSTREAM END = 6.3 CFS

CONCENTRATIONS (PPM)

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	4.427	27	-4.41	6.175	52	0.09	8.760	77	4.59	11.061
2	-8.91	4.481	28	-4.23	6.259	53	0.27	8.888	78	4.77	11.231
3	-8.73	4.536	29	-4.05	6.345	54	0.45	9.018	79	4.95	11.405
4	-8.55	4.591	30	-3.87	6.431	55	0.63	9.150	80	5.13	11.581
5	-8.37	4.648	31	-3.69	6.519	56	0.81	9.284	81	5.31	11.759
6	-8.19	4.706	32	-3.51	6.609	57	0.99	9.421	82	5.49	11.943
7	-8.01	4.765	33	-3.33	6.700	58	1.17	9.560	83	5.67	12.130
8	-7.83	4.825	34	-3.15	6.793	59	1.35	9.702	84	5.85	12.317
9	-7.65	4.886	35	-2.97	6.887	60	1.53	9.845	85	6.03	6.558
10	-7.47	4.947	36	-2.79	6.983	61	1.71	9.992	86	6.21	6.601
11	-7.29	5.010	37	-2.61	7.081	62	1.89	10.140	87	6.39	6.738
12	-7.11	5.074	38	-2.43	7.180	63	2.07	10.292	88	6.57	6.939
13	-6.93	5.139	39	-2.25	7.281	64	2.25	10.446	89	6.75	7.148
14	-6.75	5.205	40	-2.07	7.383	65	2.43	10.602	90	6.93	7.359
15	-6.57	5.223	41	-1.89	7.498	66	2.61	10.761	91	7.11	7.565
16	-6.39	5.341	42	-1.71	7.594	67	2.79	10.923	92	7.29	7.775
17	-6.21	5.411	43	-1.53	7.702	68	2.97	11.088	93	7.47	7.996
18	-6.03	5.482	44	-1.35	7.812	69	3.15	11.255	94	7.65	8.231
19	-5.85	5.554	45	-1.17	7.923	70	3.33	11.425	95	7.83	8.480
20	-5.67	5.627	46	-0.99	8.037	71	3.51	11.599	96	8.01	3.798
21	-5.49	5.701	47	-0.81	8.152	72	3.69	11.775	97	8.19	3.902
22	-5.31	5.777	48	-0.63	8.270	73	3.87	11.954	98	8.37	4.013
23	-5.13	5.854	49	-0.45	8.389	74	4.05	12.137	99	8.55	4.133
24	-4.95	5.932	50	-0.27	8.511	75	4.23	12.322	100	8.73	4.262
25	-4.77	6.012	51	-0.09	8.634	76	4.41	10.895	101	8.91	4.400
26	-4.59	6.093									

***** STEADY STATE DO INPUT CONDITIONS *****

***** POINT SOURCE INFLOW CONCENTRATIONS (PPM) *****

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	2.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	2.000
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	2.000	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	3.700
26	-4.59	0.000									
***** NONPOINT SOURCE LOADS (LBS/DAY) *****											
JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000

7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	0.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.133
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.666
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.666
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.666
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.666
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.666
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.666
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.666
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.666
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.666
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.666
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.666
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.666
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.666
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	0.666
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.666
26	-4.59	0.000									

Red Chute Bayou TMDL 30/15 treatment 2 effluent DO
 STEADY STATE DO CONCENTRATIONS (PPM)

OUTFLOW AT DOWNSTREAM END = 6.3 CFS

CONCENTRATIONS (PPM)

JUNC NO	RIVER MILE	VALUE									
1	-9.09	6.558	27	-4.41	6.333	52	0.09	6.012	77	4.59	5.602
2	-8.91	6.551	28	-4.23	6.323	53	0.27	5.996	78	4.77	5.601
3	-8.73	6.544	29	-4.05	6.312	54	0.45	5.979	79	4.95	5.612
4	-8.55	6.536	30	-3.87	6.301	55	0.63	5.962	80	5.13	5.634
5	-8.37	6.529	31	-3.69	6.290	56	0.81	5.945	81	5.31	5.669
6	-8.19	6.521	32	-3.51	6.279	57	0.99	5.927	82	5.49	5.702
7	-8.01	6.514	33	-3.33	6.268	58	1.17	5.909	83	5.67	5.715
8	-7.83	6.506	34	-3.15	6.256	59	1.35	5.890	84	5.85	5.709
9	-7.65	6.498	35	-2.97	6.245	60	1.53	5.870	85	6.03	6.119
10	-7.47	6.490	36	-2.79	6.233	61	1.71	5.850	86	6.21	6.068
11	-7.29	6.482	37	-2.61	6.220	62	1.89	5.829	87	6.39	6.090
12	-7.11	6.474	38	-2.43	6.208	63	2.07	5.808	88	6.57	6.160
13	-6.93	6.465	39	-2.25	6.196	64	2.25	5.785	89	6.75	6.210
14	-6.75	6.457	40	-2.07	6.183	65	2.43	5.761	90	6.93	6.229
15	-6.57	6.448	41	-1.89	6.170	66	2.61	5.736	91	7.11	6.201
16	-6.39	6.439	42	-1.71	6.157	67	2.79	5.710	92	7.29	6.144
17	-6.21	6.430	43	-1.53	6.144	68	2.97	5.682	93	7.47	6.075
18	-6.03	6.421	44	-1.35	6.130	69	3.15	5.652	94	7.65	5.990
19	-5.85	6.412	45	-1.17	6.116	70	3.33	5.620	95	7.83	5.885
20	-5.67	6.403	46	-0.99	6.102	71	3.51	5.586	96	8.01	6.062
21	-5.49	6.393	47	-0.81	6.088	72	3.69	5.549	97	8.19	5.893
22	-5.31	6.384	48	-0.63	6.073	73	3.87	5.510	98	8.37	5.669
23	-5.13	6.374	49	-0.45	6.058	74	4.05	5.500	99	8.55	5.373
24	-4.95	6.364	50	-0.27	6.043	75	4.23	5.505	100	8.73	4.975
25	-4.77	6.354	51	-0.09	6.028	76	4.41	5.612	101	8.91	4.436
26	-4.59	6.344									

Table 11 Winter TMDL Output Data - 3/0/15/5

LaDEQ 1.03											
L.L.	III	MMM	NNN	NNN	NNNN						
L.L.	III	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM
L.L.	III	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM
L.L.	III	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM
L.L.	III	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM
L.L.	III	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM
L.L.	III	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM
L.L.	III	MMM	M	M	M	M	M	M	M	M	M
L.L.L.L.L.L.L.L.	III	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM
L.L.L.L.L.L.L.L.	III	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM
L.L.L.L.L.L.L.L.	III	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM	MMM
12-OCT-94 10:04:48											

STEADY STATE WATER QUALITY MODEL

RUN TITLE.....Red Chute Bayou TMDL 3/0/15 treatment 5 effluent DO

BASIC NETWORK DATA	
RIVER MILE AT DOWNSTREAM END...	-9.00
RIVER MILE AT UPSTREAM END...	9.00
RIVER MILE OF FALL LINE.....	0.00
NUMBER OF SECTIONS	100

ESTUARY / STREAM INPUT DATA

JUNCTN WIDTHS (FT)

JUNC NO	RIVER MILE	VALUE									
1	-9.09	53.000	27	-4.41	53.000	52	0.09	53.000	77	4.59	44.813
2	-8.91	53.000	28	-4.23	53.000	53	0.27	53.000	78	4.77	43.688
3	-8.73	53.000	29	-4.05	53.000	54	0.45	53.000	79	4.95	42.563
4	-8.55	53.000	30	-3.87	53.000	55	0.63	53.000	80	5.13	41.438
5	-8.37	53.000	31	-3.69	53.000	56	0.81	53.000	81	5.31	43.689
6	-8.19	53.000	32	-3.51	53.000	57	0.99	53.000	82	5.49	48.089
7	-8.01	53.000	33	-3.33	53.000	58	1.17	53.000	83	5.67	51.267
8	-7.83	53.000	34	-3.15	53.000	59	1.35	53.000	84	5.85	44.667
9	-7.65	53.000	35	-2.97	53.000	60	1.53	53.000	85	6.03	38.067
10	-7.47	53.000	36	-2.79	53.000	61	1.71	53.000	86	6.21	31.467
11	-7.29	53.000	37	-2.61	53.000	62	1.89	53.000	87	6.39	34.107
12	-7.11	53.000	38	-2.43	53.000	63	2.07	53.000	88	6.57	39.387
13	-6.93	53.000	39	-2.25	53.000	64	2.25	53.000	89	6.75	44.667
14	-6.75	53.000	40	-2.07	53.000	65	2.43	53.000	90	6.93	49.947
15	-6.57	53.000	41	-1.89	53.000	66	2.61	53.000	91	7.11	52.000
16	-6.39	53.000	42	-1.71	53.000	67	2.79	53.000	92	7.29	52.000
17	-6.21	53.000	43	-1.53	53.000	68	2.97	53.000	93	7.47	52.000
18	-6.03	53.000	44	-1.35	53.000	69	3.15	53.000	94	7.65	52.000
19	-5.85	53.000	45	-1.17	53.000	70	3.33	53.000	95	7.83	52.000
20	-5.67	53.000	46	-0.99	53.000	71	3.51	53.000	96	8.01	52.000
21	-5.49	53.000	47	-0.81	53.000	72	3.69	53.000	97	8.19	52.000
22	-5.31	53.000	48	-0.63	53.000	73	3.87	48.240	98	8.37	52.000
23	-5.13	53.000	49	-0.45	53.000	74	4.05	46.000	99	8.55	52.000
24	-4.95	53.000	50	-0.27	53.000	75	4.23	46.000	100	8.73	52.000
25	-4.77	53.000	51	-0.09	53.000	76	4.41	45.938	101	8.91	52.000
26	-4.59	53.000									

JUNCTN SURFACE AREAS (SOFT)

JUNC NO	RIVER MILE	VALUE									
1	-9.09	5.037E+04	27	-4.41	5.037E+04	52	0.09	5.037E+04	77	4.59	4.259E+04
2	-8.91	5.037E+04	28	-4.23	5.037E+04	53	0.27	5.037E+04	78	4.77	4.152E+04
3	-8.73	5.037E+04	29	-4.05	5.037E+04	54	0.45	5.037E+04	79	4.95	4.045E+04
4	-8.55	5.037E+04	30	-3.87	5.037E+04	55	0.63	5.037E+04	80	5.13	3.938E+04
5	-8.37	5.037E+04	31	-3.69	5.037E+04	56	0.81	5.037E+04	81	5.31	4.152E+04
6	-8.19	5.037E+04	32	-3.51	5.037E+04	57	0.99	5.037E+04	82	5.49	4.570E+04
7	-8.01	5.037E+04	33	-3.33	5.037E+04	58	1.17	5.037E+04	83	5.67	4.872E+04
8	-7.83	5.037E+04	34	-3.15	5.037E+04	59	1.35	5.037E+04	84	5.85	4.245E+04

A3 COEFFICIENT FOR FLOW EQUATION - REPRESENTS DEPTH OF FLOW IF A1 AND/OR A2 ARE NOT SPECIFIED (OR ARE ZERO)											
JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	JUNC NO					
9	-7.65	5.037E+04	35	-2.97	5.037E+04	60	1.53	5.037E+04	85	6.03	3.618E+04
10	-7.47	5.037E+04	36	-2.79	5.037E+04	61	1.71	5.037E+04	86	6.21	2.991E+04
11	-7.29	5.037E+04	37	-2.61	5.037E+04	62	1.89	5.037E+04	87	6.39	3.221E+04
12	-7.11	5.037E+04	38	-2.43	5.037E+04	63	2.07	5.037E+04	88	6.57	3.743E+04
13	-6.93	5.037E+04	39	-2.25	5.037E+04	64	2.25	5.037E+04	89	6.75	4.245E+04
14	-6.75	5.037E+04	40	-2.07	5.037E+04	65	2.43	5.037E+04	90	6.93	4.747E+04
15	-6.57	5.037E+04	41	-1.89	5.037E+04	66	2.61	5.037E+04	91	7.11	4.942E+04
16	-6.39	5.037E+04	42	-1.71	5.037E+04	67	2.79	5.037E+04	92	7.29	4.942E+04
17	-6.21	5.037E+04	43	-1.53	5.037E+04	68	2.97	5.037E+04	93	7.47	4.942E+04
18	-6.03	5.037E+04	44	-1.35	5.037E+04	69	3.15	5.037E+04	94	7.65	4.942E+04
19	-5.85	5.037E+04	45	-1.17	5.037E+04	70	3.33	5.037E+04	95	7.83	4.942E+04
20	-5.67	5.037E+04	46	-0.99	5.037E+04	71	3.51	5.037E+04	96	8.01	4.942E+04
21	-5.49	5.037E+04	47	-0.81	5.037E+04	72	3.69	5.037E+04	97	8.19	4.942E+04
22	-5.31	5.037E+04	48	-0.63	5.037E+04	73	3.87	5.037E+04	98	8.37	4.942E+04
23	-5.13	5.037E+04	49	-0.45	5.037E+04	74	4.05	4.372E+04	99	8.55	4.942E+04
24	-4.95	5.037E+04	50	-0.27	5.037E+04	75	4.23	4.372E+04	100	8.73	4.942E+04
25	-4.77	5.037E+04	51	-0.09	5.037E+04	76	4.41	4.366E+04	101	8.91	4.942E+04
26	-4.59	5.037E+04									

JUNCTION WATER TEMPERATURES (DEG-C)							
ALL VALUES =	19.140						
ALL VALUES =	9.250						
ALL VALUES =	0.000E+00						
ALL VALUES =	0.947						
ALL VALUES =	0.096						
ALL VALUES =	0.025						
ALL VALUES =	0.074						
ALL VALUES =	5.000E-03						
NONPOINT SOURCE FLOW (CFS/MILE OF STREAM)							
JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	
1	-9.09	0.000	27	-4.41	0.000	52	0.09
2	-8.91	0.000	28	-4.23	0.000	53	0.27
3	-8.73	0.000	29	-4.05	0.000	54	0.45
4	-8.55	0.000	30	-3.87	0.000	55	0.63
5	-8.37	0.000	31	-3.69	0.000	56	0.81
6	-8.19	0.000	32	-3.51	0.000	57	0.99
7	-8.01	0.000	33	-3.33	0.000	58	1.17
8	-7.83	0.000	34	-3.15	0.000	59	1.35
9	-7.65	0.000	35	-2.97	0.000	60	1.53
10	-7.47	0.000	36	-2.79	0.000	61	1.71
11	-7.29	0.000	37	-2.61	0.000	62	1.89
12	-7.11	0.000	38	-2.43	0.000	63	2.07
13	-6.93	0.000	39	-2.25	0.000	64	2.25
14	-6.75	0.000	40	-2.07	0.000	65	2.43
15	-6.57	0.000	41	-1.89	0.000	66	2.61
16	-6.39	0.000	42	-1.71	0.000	67	2.79
17	-6.21	0.000	43	-1.53	0.000	68	2.97
18	-6.03	0.000	44	-1.35	0.000	69	3.15
19	-5.85	0.000	45	-1.17	0.000	70	3.33
20	-5.67	0.000	46	-0.99	0.000	71	3.51
21	-5.49	0.000	47	-0.81	0.000	72	3.69
22	-5.31	0.000	48	-0.63	0.000	73	3.87
23	-5.13	0.000	49	-0.45	0.000	74	4.05

24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	0.630
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.630
26	-4.59	0.000									

***** NIBOD NONPOINT SOURCE CONTRIBUTION (LBSNBO/DAY/MILE OF STREAM) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	15.000	27	-4.41	15.000	52	0.09	15.000	77	4.59	14.629
2	-8.91	15.000	28	-4.23	15.000	53	0.27	15.000	78	4.77	13.868
3	-8.73	15.000	29	-4.05	15.000	54	0.45	15.000	79	4.95	13.147
4	-8.55	15.000	30	-3.87	15.000	55	0.63	15.000	80	5.13	12.406
5	-8.37	15.000	31	-3.69	15.000	56	0.81	15.000	81	5.31	11.665
6	-8.19	15.000	32	-3.51	15.000	57	0.99	15.000	82	5.49	10.924
7	-8.01	15.000	33	-3.33	15.000	58	1.17	15.000	83	5.67	10.182
8	-7.83	15.000	34	-3.15	15.000	59	1.35	15.000	84	5.85	9.441
9	-7.65	15.000	35	-2.97	15.000	60	1.53	15.000	85	6.03	8.700
10	-7.47	15.000	36	-2.79	15.000	61	1.71	15.000	86	6.21	7.400
11	-7.29	15.000	37	-2.61	15.000	62	1.89	15.000	87	6.39	5.233
12	-7.11	15.000	38	-2.43	15.000	63	2.07	15.000	88	6.57	5.533
13	-6.93	15.000	39	-2.25	15.000	64	2.25	15.000	89	6.75	5.833
14	-6.75	15.000	40	-2.07	15.000	65	2.43	15.000	90	6.93	6.133
15	-6.57	15.000	41	-1.89	15.000	66	2.61	15.000	91	7.11	6.433
16	-6.39	15.000	42	-1.71	15.000	67	2.79	15.000	92	7.29	6.733
17	-6.21	15.000	43	-1.53	15.000	68	2.97	15.000	93	7.47	7.033
18	-6.03	15.000	44	-1.35	15.000	69	3.15	15.000	94	7.65	7.333
19	-5.85	15.000	45	-1.17	15.000	70	3.33	15.000	95	7.83	7.633
20	-5.67	15.000	46	-0.99	15.000	71	3.51	15.000	96	8.01	7.933
21	-5.49	15.000	47	-0.81	15.000	72	3.69	15.000	97	8.19	8.000
22	-5.31	15.000	48	-0.63	15.000	73	3.87	15.000	98	8.37	8.000
23	-5.13	15.000	49	-0.45	15.000	74	4.05	15.000	99	8.55	8.000
24	-4.95	15.000	50	-0.27	15.000	75	4.23	15.000	100	8.73	8.000
25	-4.77	15.000	51	-0.09	15.000	76	4.41	15.000	101	8.91	8.000
26	-4.59	15.000									

***** CBOD NONPOINT SOURCE CONTRIBUTION (LBSCBOD/DAY/MILE OF STREAM) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	4.000	27	-4.41	4.000	52	0.09	4.000	77	4.59	4.000
2	-8.91	4.000	28	-4.23	4.000	53	0.27	4.000	78	4.77	4.000
3	-8.73	4.000	29	-4.05	4.000	54	0.45	4.000	79	4.95	4.000
4	-8.55	4.000	30	-3.87	4.000	55	0.63	4.000	80	5.13	4.000
5	-8.37	4.000	31	-3.69	4.000	56	0.81	4.000	81	5.31	4.000
6	-8.19	4.000	32	-3.51	4.000	57	0.99	4.000	82	5.49	4.000
7	-8.01	4.000	33	-3.33	4.000	58	1.17	4.000	83	5.67	4.000
8	-7.83	4.000	34	-3.15	4.000	59	1.35	4.000	84	5.85	4.000
9	-7.65	4.000	35	-2.97	4.000	60	1.53	4.000	85	6.03	4.000
10	-7.47	4.000	36	-2.79	4.000	61	1.71	4.000	86	6.21	4.400
11	-7.29	4.000	37	-2.61	4.000	62	1.89	4.000	87	6.39	6.000
12	-7.11	4.000	38	-2.43	4.000	63	2.07	4.000	88	6.57	6.000

13	-6.93	4.000	39	-2.25	4.000	64	2.25	4.000	89	6.75	6.000
14	-6.75	4.000	40	-2.07	4.000	65	2.43	4.000	90	6.93	6.000
15	-6.57	4.000	41	-1.89	4.000	66	2.61	4.000	91	7.11	6.000
16	-6.39	4.000	42	-1.71	4.000	67	2.79	4.000	92	7.29	6.000
17	-6.21	4.000	43	-1.53	4.000	68	2.97	4.000	93	7.47	6.000
18	-6.03	4.000	44	-1.35	4.000	69	3.15	4.000	94	7.65	6.000
19	-5.85	4.000	45	-1.17	4.000	70	3.33	4.000	95	7.83	6.000
20	-5.67	4.000	46	-0.99	4.000	71	3.51	4.000	96	8.01	6.000
21	-5.49	4.000	47	-0.81	4.000	72	3.69	4.000	97	8.19	6.000
22	-5.31	4.000	48	-0.63	4.000	73	3.87	4.000	98	8.37	6.000
23	-5.13	4.000	49	-0.45	4.000	74	4.05	4.000	99	8.55	6.000
24	-4.95	4.000	50	-0.27	4.000	75	4.23	4.000	100	8.73	6.000
25	-4.77	4.000	51	-0.09	4.000	76	4.41	4.000	101	8.91	6.000
26	-4.59	4.000									

***** O2 NONPOINT SOURCE CONTRIBUTIONS (LBS O2/DAY/MILE OF STREAM) *****

JUNC	RIVER NO	MILE	VALUE	JUNC	RIVER NO	MILE	VALUE	JUNC	RIVER NO	MILE	VALUE	JUNC	RIVER NO	MILE	VALUE
1	9.09	0.000	27	-4.41	0.000	52	0.09	0.000	0.000	77	4.59	0.000	0.000	0.000	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	0.000	78	4.77	0.000	0.000	0.000	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	0.000	79	4.95	0.000	0.000	0.000	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	0.000	80	5.13	0.000	0.000	0.000	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	0.000	81	5.31	0.000	0.000	0.000	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	0.000	82	5.49	0.000	0.000	0.000	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	0.000	83	5.67	0.000	0.000	0.000	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	0.000	84	5.85	0.000	0.000	0.000	0.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	0.000	85	6.03	0.000	0.000	0.000	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	0.000	86	6.21	0.000	0.000	0.000	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	0.000	87	6.39	0.000	0.000	0.000	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	0.000	88	6.57	0.000	0.000	0.000	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	0.000	89	6.75	0.000	0.000	0.000	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	0.000	90	6.93	0.000	0.000	0.000	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	0.000	91	7.11	0.000	0.000	0.000	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	0.000	92	7.29	0.000	0.000	0.000	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	0.000	93	7.47	0.000	0.000	0.000	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	0.000	94	7.65	0.000	0.000	0.000	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	0.000	95	7.83	0.000	0.000	0.000	0.000
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	0.000	96	8.01	0.000	0.000	0.000	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	0.000	97	8.19	0.000	0.000	0.000	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	0.000	98	8.37	0.000	0.000	0.000	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	0.000	99	8.55	0.000	0.000	0.000	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	0.000	100	8.73	0.000	0.000	0.000	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	0.000	101	8.91	0.000	0.000	0.000	0.000
26	-4.59	0.000													

***** DISPERSION COEFFICIENTS (SQFT/SEC) *****
 ALL VALUES = 0.000E+00
 ALL VALUES = 0.000E+00
 ***** AVERAGE DAILY PHOTOSYNTHESIS-RESPIRATION RATE (GM O2/SQM/DAY) CORRECTED TO STREAM TEMPERATURES *****
 ***** ALL VALUES = 0.000E+00

DEPTH OR VELOCITY DEPENDENT VARIABLES

CROSSECTONAL AREAS OF JUNCT*NS (SQFT)

JUNC NO	RIVER MILE	VALUE									
1	-9.09	80.030	27	-4.41	80.030	52	0.09	80.030	77	4.59	79.313
2	-8.91	80.030	28	-4.23	80.030	53	0.27	80.030	78	4.77	79.386
3	-8.73	80.030	29	-4.05	80.030	54	0.45	80.030	79	4.95	79.352
4	-8.55	80.030	30	-3.87	80.030	55	0.63	80.030	80	5.13	79.213
5	-8.37	80.030	31	-3.69	80.030	56	0.81	80.030	81	5.31	79.941
6	-8.19	80.030	32	-3.51	80.030	57	0.99	80.030	82	5.49	80.105
7	-8.01	80.030	33	-3.33	80.030	58	1.17	80.030	83	5.67	78.609
8	-7.83	80.030	34	-3.15	80.030	59	1.35	80.030	84	5.85	73.849
9	-7.65	80.030	35	-2.97	80.030	60	1.53	80.030	85	6.03	67.505
10	-7.47	80.030	36	-2.79	80.030	61	1.71	80.030	86	6.21	59.577
11	-7.29	80.030	37	-2.61	80.030	62	1.89	80.030	87	6.39	57.807
12	-7.11	80.030	38	-2.43	80.030	63	2.07	80.030	88	6.57	55.356
13	-6.93	80.030	39	-2.25	80.030	64	2.25	80.030	89	6.75	49.848
14	-6.75	80.030	40	-2.07	80.030	65	2.43	80.030	90	6.93	41.284
15	-6.57	80.030	41	-1.89	80.030	66	2.61	80.030	91	7.11	37.128
16	-6.39	80.030	42	-1.71	80.030	67	2.79	80.030	92	7.29	37.128
17	-6.21	80.030	43	-1.53	80.030	68	2.97	80.030	93	7.47	37.128
18	-6.03	80.030	44	-1.35	80.030	69	3.15	80.030	94	7.65	37.128
19	-5.85	80.030	45	-1.17	80.030	70	3.33	80.030	95	7.83	37.128
20	-5.67	80.030	46	-0.99	80.030	71	3.51	80.030	96	8.01	37.128
21	-5.49	80.030	47	-0.81	80.030	72	3.69	80.030	97	8.19	37.128
22	-5.31	80.030	48	-0.63	80.030	73	3.87	80.030	98	8.37	37.128
23	-5.13	80.030	49	-0.45	80.030	74	4.05	79.836	99	8.55	37.128
24	-4.95	80.030	50	-0.27	80.030	75	4.23	79.468	100	8.73	37.128
25	-4.77	80.030	51	-0.09	80.030	76	4.41	79.133	101	8.91	37.128
26	-4.59	80.030									

JUNCT*N DEPTHS (FT)

JUNC NO	RIVER MILE	VALUE									
1	-9.09	1.510	27	-4.41	1.510	52	0.09	1.510	77	4.59	1.770
2	-8.91	1.510	28	-4.23	1.510	53	0.27	1.510	78	4.77	1.817
3	-8.73	1.510	29	-4.05	1.510	54	0.45	1.510	79	4.95	1.864
4	-8.55	1.510	30	-3.87	1.510	55	0.63	1.510	80	5.13	1.912
5	-8.37	1.510	31	-3.69	1.510	56	0.81	1.510	81	5.31	1.830
6	-8.19	1.510	32	-3.51	1.510	57	0.99	1.510	82	5.49	1.666
7	-8.01	1.510	33	-3.33	1.510	58	1.17	1.510	83	5.67	1.533
8	-7.83	1.510	34	-3.15	1.510	59	1.35	1.510	84	5.85	1.653
9	-7.65	1.510	35	-2.97	1.510	60	1.53	1.510	85	6.03	1.773
10	-7.47	1.510	36	-2.79	1.510	61	1.71	1.510	86	6.21	1.893

JUNCTION VELOCITIES (FT/SEC)									
JUNC	RIVER	MILE	NO	RIVER	MILE	NO	RIVER	MILE	VALUE
1	-9.09	0.078	27	-4.41	0.078	52	0.09	0.078	0.077
2	-8.91	0.078	28	-4.23	0.078	53	0.27	0.078	0.077
3	-8.73	0.078	29	-4.05	0.078	54	0.45	0.078	0.077
4	-8.55	0.078	30	-3.87	0.078	55	0.63	0.078	0.077
5	-8.37	0.078	31	-3.69	0.078	56	0.81	0.078	0.076
6	-8.19	0.078	32	-3.51	0.078	57	0.99	0.078	0.076
7	-8.01	0.078	33	-3.33	0.078	58	1.17	0.078	0.077
8	-7.83	0.078	34	-3.15	0.078	59	1.35	0.078	0.075
9	-7.65	0.078	35	-2.97	0.078	60	1.53	0.078	0.082
10	-7.47	0.078	36	-2.79	0.078	61	1.71	0.078	0.092
11	-7.29	0.078	37	-2.61	0.078	62	1.89	0.078	0.093
12	-7.11	0.078	38	-2.43	0.078	63	2.07	0.078	0.095
13	-6.93	0.078	39	-2.25	0.078	64	2.25	0.078	0.103
14	-6.75	0.078	40	-2.07	0.078	65	2.43	0.078	0.122
15	-6.57	0.078	41	-1.89	0.078	66	2.61	0.078	0.133
16	-6.39	0.078	42	-1.71	0.078	67	2.79	0.078	0.130
17	-6.21	0.078	43	-1.53	0.078	68	2.97	0.078	0.126
18	-6.03	0.078	44	-1.35	0.078	69	3.15	0.078	0.123
19	-5.85	0.078	45	-1.17	0.078	70	3.33	0.078	0.111
20	-5.67	0.078	46	-0.99	0.078	71	3.51	0.078	0.108
21	-5.49	0.078	47	-0.81	0.078	72	3.69	0.078	0.105
22	-5.31	0.078	48	-0.63	0.078	73	3.87	0.078	0.102
23	-5.13	0.078	49	-0.45	0.078	74	4.05	0.078	0.099
24	-4.95	0.078	50	-0.27	0.078	75	4.23	0.077	0.096
25	-4.77	0.078	51	-0.09	0.078	76	4.41	0.077	0.093
26	-4.59	0.078							

JUNCTION VOLUMES (CUFT)										
JUNC	RIVER	MILE	NO	RIVER	MILE	NO	RIVER	MILE	VALUE	
1	-7.29	1.510	37	-2.61	1.510	62	1.89	1.510	87	6.39
12	-7.11	1.510	38	-2.43	1.510	63	2.07	1.510	88	6.57
13	-6.93	1.510	39	-2.25	1.510	64	2.25	1.510	89	6.75
14	-6.75	1.510	40	-2.07	1.510	65	2.43	1.510	90	6.93
15	-6.57	1.510	41	-1.89	1.510	66	2.61	1.510	91	7.11
16	-6.39	1.510	42	-1.71	1.510	67	2.79	1.510	92	7.29
17	-6.21	1.510	43	-1.53	1.510	68	2.97	1.510	93	7.47
18	-6.03	1.510	44	-1.35	1.510	69	3.15	1.510	94	7.65
19	-5.85	1.510	45	-1.17	1.510	70	3.33	1.510	95	7.83
20	-5.67	1.510	46	-0.99	1.510	71	3.51	1.510	96	8.01
21	-5.49	1.510	47	-0.81	1.510	72	3.69	1.510	97	8.19
22	-5.31	1.510	48	-0.63	1.510	73	3.87	1.510	98	8.37
23	-5.13	1.510	49	-0.45	1.510	74	4.05	1.510	99	8.55
24	-4.95	1.510	50	-0.27	1.510	75	4.23	1.510	100	8.73
25	-4.77	1.510	51	-0.09	1.510	76	4.41	1.510	101	8.91
26	-4.59	1.510								

NO	MILE	VALUE	NO	MILE	VALUE	NO	MILE	VALUE	NO	MILE	VALUE
1	-9.09	7.606E+04	27	-4.41	7.606E+04	52	0.09	7.606E+04	77	4.59	7.538E+04
2	-8.91	7.606E+04	28	-4.23	7.606E+04	53	0.27	7.606E+04	78	4.77	7.545E+04
3	-8.73	7.606E+04	29	-4.05	7.606E+04	54	0.45	7.606E+04	79	4.95	7.542E+04
4	-8.55	7.606E+04	30	-3.87	7.606E+04	55	0.63	7.606E+04	80	5.13	7.528E+04
5	-8.37	7.606E+04	31	-3.69	7.606E+04	56	0.81	7.606E+04	81	5.31	7.598E+04
6	-8.19	7.606E+04	32	-3.51	7.606E+04	57	0.99	7.606E+04	82	5.49	7.613E+04
7	-8.01	7.606E+04	33	-3.33	7.606E+04	58	1.17	7.606E+04	83	5.67	7.471E+04
8	-7.83	7.606E+04	34	-3.15	7.606E+04	59	1.35	7.606E+04	84	5.85	7.019E+04
9	-7.65	7.606E+04	35	-2.97	7.606E+04	60	1.53	7.606E+04	85	6.03	6.416E+04
10	-7.47	7.606E+04	36	-2.79	7.606E+04	61	1.71	7.606E+04	86	6.21	5.662E+04
11	-7.29	7.606E+04	37	-2.61	7.606E+04	62	1.89	7.606E+04	87	6.39	5.494E+04
12	-7.11	7.606E+04	38	-2.43	7.606E+04	63	2.07	7.606E+04	88	6.57	5.261E+04
13	-6.93	7.606E+04	39	-2.25	7.606E+04	64	2.25	7.606E+04	89	6.75	4.738E+04
14	-6.75	7.606E+04	40	-2.07	7.606E+04	65	2.43	7.606E+04	90	6.93	3.924E+04
15	-6.57	7.606E+04	41	-1.89	7.606E+04	66	2.61	7.606E+04	91	7.11	3.529E+04
16	-6.39	7.606E+04	42	-1.71	7.606E+04	67	2.79	7.606E+04	92	7.29	3.529E+04
17	-6.21	7.606E+04	43	-1.53	7.606E+04	68	2.97	7.606E+04	93	7.47	3.529E+04
18	-6.03	7.606E+04	44	-1.35	7.606E+04	69	3.15	7.606E+04	94	7.65	3.529E+04
19	-5.85	7.606E+04	45	-1.17	7.606E+04	70	3.33	7.606E+04	95	7.83	3.529E+04
20	-5.67	7.606E+04	46	-0.99	7.606E+04	71	3.51	7.606E+04	96	8.01	3.529E+04
21	-5.49	7.606E+04	47	-0.81	7.606E+04	72	3.69	7.606E+04	97	8.19	3.529E+04
22	-5.31	7.606E+04	48	-0.63	7.606E+04	73	3.87	7.606E+04	98	8.37	3.529E+04
23	-5.13	7.606E+04	49	-0.45	7.606E+04	74	4.05	7.588E+04	99	8.55	3.529E+04
24	-4.95	7.606E+04	50	-0.27	7.606E+04	75	4.23	7.552E+04	100	8.73	3.529E+04
25	-4.77	7.606E+04	51	-0.09	7.606E+04	76	4.41	7.521E+04	101	8.91	3.529E+04
26	-4.59	7.606E+04									

*****ISAACS AND GAUDY CORRELATION
WIND INDUCED REERATION WAS USED FOR THE FOLLOW SEGMENTS
1 3 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90
91 92 93 94 95 96 97 98 99 100 101
*****COMPUTED REERATION RATES (1/DAY)*****

JUNC	RIVER	VALUE									
1	-9.09	1.233	27	-4.41	1.233	52	0.09	1.233	77	4.59	1.052
2	-8.91	1.233	28	-4.23	1.233	53	0.27	1.233	78	4.77	1.024
3	-8.73	1.233	29	-4.05	1.233	54	0.45	1.233	79	4.95	0.999
4	-8.55	1.233	30	-3.87	1.233	55	0.63	1.233	80	5.13	0.974
5	-8.37	1.233	31	-3.69	1.233	56	0.81	1.233	81	5.31	1.017
6	-8.19	1.233	32	-3.51	1.233	57	0.99	1.233	82	5.49	1.118
7	-8.01	1.233	33	-3.33	1.233	58	1.17	1.233	83	5.67	1.214
8	-7.83	1.233	34	-3.15	1.233	59	1.35	1.233	84	5.85	1.126
9	-7.65	1.233	35	-2.97	1.233	60	1.53	1.233	85	6.03	1.050
10	-7.47	1.233	36	-2.79	1.233	61	1.71	1.233	86	6.21	0.983
11	-7.29	1.233	37	-2.61	1.233	62	1.89	1.233	87	6.39	1.098
12	-7.11	1.233	38	-2.43	1.233	63	2.07	1.233	88	6.57	1.325

13	-6.93	1.233	39	-2.25	1.233	64	2.25	1.233	89	6.75	1.668
14	-6.75	1.233	40	-2.07	1.233	65	2.43	1.233	90	6.93	2.252
15	-6.57	1.233	41	-1.89	1.233	66	2.61	1.233	91	7.11	2.607
16	-6.39	1.233	42	-1.71	1.233	67	2.79	1.233	92	7.29	2.607
17	-6.21	1.233	43	-1.53	1.233	68	2.97	1.233	93	7.47	2.607
18	-6.03	1.233	44	-1.35	1.233	69	3.15	1.233	94	7.65	2.607
19	-5.85	1.233	45	-1.17	1.233	70	3.33	1.233	95	7.83	2.607
20	-5.67	1.233	46	-0.99	1.233	71	3.51	1.233	96	8.01	2.607
21	-5.49	1.233	47	-0.81	1.233	72	3.69	1.233	97	8.19	2.607
22	-5.31	1.233	48	-0.63	1.233	73	3.87	1.117	98	8.37	2.607
23	-5.13	1.233	49	-0.45	1.233	74	4.05	1.073	99	8.55	2.607
24	-4.95	1.233	50	-0.27	1.233	75	4.23	1.078	100	8.73	2.607
25	-4.77	1.233	51	-0.09	1.233	76	4.41	1.081	101	8.91	2.607
26	-4.59	1.233									

STEADY STATE FLOW CONDITIONS

TOTAL INFLOWS = 6.3 CFS
 TOTAL DIVERIONS = 0.0 CFS
 OUTFLOW AT DOWNSTREAM JUNCTION = 6.3 CFS

POINT SOURCE INFLOWS (CFS)

JUNC NO	RIVER MILE	VALUE									
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	0.579
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.339
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.174	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	3.449
26	-4.59	0.000									

NONPOINT SOURCE INFLOWS (CFS) (EXCLUDING RAINFALL)

JUNC NO	RIVER MILE	VALUE									
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000

***** POINT DIVERSIONS (CFS) *****							
JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	
7	-8.01	0.000	33	-3.33	0.000	58	1.17
8	-7.83	0.000	34	-3.15	0.000	59	1.35
9	-7.65	0.000	35	-2.97	0.000	60	1.53
10	-7.47	0.000	36	-2.79	0.000	61	1.71
11	-7.29	0.000	37	-2.61	0.000	62	1.89
12	-7.11	0.000	38	-2.43	0.000	63	2.07
13	-6.93	0.000	39	-2.25	0.000	64	2.25
14	-6.75	0.000	40	-2.07	0.000	65	2.43
15	-6.57	0.000	41	-1.89	0.000	66	2.61
16	-6.39	0.000	42	-1.71	0.000	67	2.79
17	-6.21	0.000	43	-1.53	0.000	68	2.97
18	-6.03	0.000	44	-1.35	0.000	69	3.15
19	-5.85	0.000	45	-1.17	0.000	70	3.33
20	-5.67	0.000	46	-0.99	0.000	71	3.51
21	-5.49	0.000	47	-0.81	0.000	72	3.69
22	-5.31	0.000	48	-0.63	0.000	73	3.87
23	-5.13	0.000	49	-0.45	0.000	74	4.05
24	-4.95	0.000	50	-0.27	0.000	75	4.23
25	-4.77	0.000	51	-0.09	0.000	76	4.41
26	-4.59	0.000					
***** RIVER DIVERSIONS (CFS) *****							
JUNC NO	RIVER MILE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	
1	-9.09	6.265	-4.41	0.000	52	0.09	
2	-8.91	0.000	28	-4.23	0.000	53	0.27
3	-8.73	0.000	29	-4.05	0.000	54	0.45
4	-8.55	0.000	30	-3.87	0.000	55	0.63
5	-8.37	0.000	31	-3.69	0.000	56	0.81
6	-8.19	0.000	32	-3.51	0.000	57	0.99
7	-8.01	0.000	33	-3.33	0.000	58	1.17
8	-7.83	0.000	34	-3.15	0.000	59	1.35
9	-7.65	0.000	35	-2.97	0.000	60	1.53
10	-7.47	0.000	36	-2.79	0.000	61	1.71
11	-7.29	0.000	37	-2.61	0.000	62	1.89
12	-7.11	0.000	38	-2.43	0.000	63	2.07
13	-6.93	0.000	39	-2.25	0.000	64	2.25
14	-6.75	0.000	40	-2.07	0.000	65	2.43
15	-6.57	0.000	41	-1.89	0.000	66	2.61
16	-6.39	0.000	42	-1.71	0.000	67	2.79
17	-6.21	0.000	43	-1.53	0.000	68	2.97
18	-6.03	0.000	44	-1.35	0.000	69	3.15
19	-5.85	0.000	45	-1.17	0.000	70	3.33
20	-5.67	0.000	46	-0.99	0.000	71	3.51
21	-5.49	0.000	47	-0.81	0.000	72	3.69
22	-5.31	0.000	48	-0.63	0.000	73	3.87
23	-5.13	0.000	49	-0.45	0.000	74	4.05
24	-4.95	0.000	50	-0.27	0.000	75	4.23
25	-4.77	0.000	51	-0.09	0.000	76	4.41
26	-4.59	0.000					

C82

***** ALL VALUES = 0.000E+00 NONPOINT DIVERSIONS OR LOSSES (CFS) (EXCLUDING EVAPORATION) *****

***** JUNCT+N FLOWS (CFS) *****		
JUNC NO	RIVER MILE	VALUE
1	-9.09	-6.265
2	-8.91	-6.265
3	-8.73	-6.265
4	-8.55	-6.265
5	-8.37	-6.265
6	-8.19	-6.265
7	-8.01	-6.265
8	-7.83	-6.265
9	-7.65	-6.265
10	-7.47	-6.265
11	-7.29	-6.265
12	-7.11	-6.265
13	-6.93	-6.265
14	-6.75	-6.265
15	-6.57	-6.265
16	-6.39	-6.265
17	-6.21	-6.265
18	-6.03	-6.265
19	-5.85	-6.265
20	-5.67	-6.265
21	-5.49	-6.265
22	-5.31	-6.265
23	-5.13	-6.265
24	-4.95	-6.265
25	-4.77	-6.265
26	-4.59	-6.265

***** RESIDENCE TIME (DAYS) *****

***** JUNCT TIME (DAYS) *****		
JUNC NO	RIVER MILE	VALUE
1	-9.09	13.623
2	-8.91	13.482
3	-8.73	13.342
4	-8.55	13.201
5	-8.37	13.061
6	-8.19	12.920
7	-8.01	12.780
8	-7.83	12.639
9	-7.65	12.499
10	-7.47	12.358
11	-7.29	12.218
12	-7.11	12.077
13	-6.93	11.937

***** JUNCT NO *****		
JUNC NO	RIVER MILE	VALUE
1	0.09	-6.265
2	0.27	-6.265
3	0.45	-6.265
4	0.63	-6.265
5	0.81	-6.265
6	0.99	-6.265
7	1.17	-6.265
8	1.35	-6.265
9	1.53	-6.265
10	1.71	-6.265
11	1.89	-6.265
12	2.07	-6.265
13	2.25	-6.265
14	2.43	-6.265
15	2.61	-6.265
16	2.79	-6.265
17	2.97	-6.265
18	3.15	-6.265
19	3.33	-6.265
20	3.51	-6.265
21	3.69	-6.265
22	3.87	-6.265
23	4.05	-6.265
24	4.23	-6.265
25	4.41	-6.265
26	4.59	-6.265

***** JUNCT NO *****		
JUNC NO	RIVER MILE	VALUE
1	4.59	-6.091
2	4.77	-6.091
3	4.95	-6.091
4	5.31	-6.091
5	5.49	-6.091
6	5.67	-6.091
7	6.03	-6.091
8	6.21	-6.091
9	6.39	-6.091
10	6.57	-6.091
11	6.75	-6.091
12	6.93	-6.091
13	7.11	-6.091
14	7.29	-6.091
15	7.47	-6.091
16	7.65	-6.091
17	7.83	-6.091
18	8.01	-6.091
19	8.19	-6.091
20	8.37	-6.091
21	8.55	-6.091
22	8.73	-6.091
23	8.91	-6.091
24	9.09	-6.091
25	9.27	-6.091
26	9.45	-6.091

14	-6.75	11.796	40	-2.07	8.142	65	2.43	4.629	90	6.93
15	-6.57	11.656	41	-1.89	8.002	66	2.61	4.489	91	7.11
16	-6.39	11.515	42	-1.71	7.861	67	2.79	4.348	92	7.29
17	-6.21	11.374	43	-1.53	7.721	68	2.97	4.208	93	7.47
18	-6.03	11.234	44	-1.35	7.580	69	3.15	4.067	94	7.65
19	-5.85	11.093	45	-1.17	7.440	70	3.33	3.927	95	7.83
20	-5.67	10.953	46	-0.99	7.299	71	3.51	3.786	96	8.01
21	-5.49	10.812	47	-0.81	7.159	72	3.69	3.646	97	8.19
22	-5.31	10.672	48	-0.63	7.018	73	3.87	3.505	98	8.37
23	-5.13	10.531	49	-0.45	6.878	74	4.05	3.364	99	8.55
24	-4.95	10.391	50	-0.27	6.737	75	4.23	3.224	100	8.73
25	-4.77	10.250	51	-0.09	6.597	76	4.41	3.080	101	8.91
26	-4.59	10.110								0.118

***** STEADY STATE NBOD INPUT CONDITIONS *****

***** POINT SOURCE INFLOW CONCENTRATIONS (PPM) *****

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	64.500
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	64.500
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	64.500	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	6.770
26	-4.59	0.000									

***** NONPOINT SOURCE LOADS (LBS/DAY) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	2.700	27	-4.41	2.700	52	0.09	2.700	77	4.59	2.633
2	-8.91	2.700	28	-4.23	2.700	53	0.27	2.700	78	4.77	2.500
3	-8.73	2.700	29	-4.05	2.700	54	0.45	2.700	79	4.95	2.366
4	-8.55	2.700	30	-3.87	2.700	55	0.63	2.700	80	5.13	2.233
5	-8.37	2.700	31	-3.69	2.700	56	0.81	2.700	81	5.31	2.100
6	-8.19	2.700	32	-3.51	2.700	57	0.99	2.700	82	5.49	1.966

7	-8.01	2.700	33	-3.33	2.700	58	1.17	2.700	83	5.67	1.833
8	-7.83	2.700	34	-3.15	2.700	59	1.35	2.700	84	5.85	1.699
9	-7.65	2.700	35	-2.97	2.700	60	1.53	2.700	85	6.03	1.566
10	-7.47	2.700	36	-2.79	2.700	61	1.71	2.700	86	6.21	1.332
11	-7.29	2.700	37	-2.61	2.700	62	1.89	2.700	87	6.39	0.942
12	-7.11	2.700	38	-2.43	2.700	63	2.07	2.700	88	6.57	0.996
13	-6.93	2.700	39	-2.25	2.700	64	2.25	2.700	89	6.75	1.050
14	-6.75	2.700	40	-2.07	2.700	65	2.43	2.700	90	6.93	1.104
15	-6.57	2.700	41	-1.89	2.700	66	2.61	2.700	91	7.11	1.158
16	-6.39	2.700	42	-1.71	2.700	67	2.79	2.700	92	7.29	1.212
17	-6.21	2.700	43	-1.53	2.700	68	2.97	2.700	93	7.47	1.266
18	-6.03	2.700	44	-1.35	2.700	69	3.15	2.700	94	7.65	1.320
19	-5.85	2.700	45	-1.17	2.700	70	3.33	2.700	95	7.83	1.374
20	-5.67	2.700	46	-0.99	2.700	71	3.51	2.700	96	8.01	1.428
21	-5.49	2.700	47	-0.81	2.700	72	3.69	2.700	97	8.19	1.440
22	-5.31	2.700	48	-0.63	2.700	73	3.87	2.700	98	8.37	1.440
23	-5.13	2.700	49	-0.45	2.700	74	4.05	2.700	99	8.55	1.440
24	-4.95	2.700	50	-0.27	2.700	75	4.23	2.700	100	8.73	1.440
25	-4.77	2.700	51	-0.09	2.700	76	4.41	2.700	101	8.91	1.440
26	-4.59	2.700									

Red Chute Bayou TMDL 30/15 treatment 5 effluent DO

STEADY STATE NBOD CONCENTRATIONS (PPM)

OUTFLOW AT DOWNSTREAM END = 6.3 CFS

CONCENTRATIONS (PPM)

JUNC	RIVER NO	RIVER MILE	JUNC NO	RIVER MILE								
1	-9.09	10.564	27	-4.41	11.702	52	0.09	13.154	77	4.59	13.639	
2	-8.91	10.602	28	-4.23	11.753	53	0.27	13.221	78	4.77	13.714	
3	-8.73	10.641	29	-4.05	11.804	54	0.45	13.289	79	4.95	13.794	
4	-8.55	10.680	30	-3.87	11.856	55	0.63	13.357	80	5.13	13.879	
5	-8.37	10.719	31	-3.69	11.908	56	0.81	13.426	81	5.31	13.969	
6	-8.19	10.759	32	-3.51	11.961	57	0.99	13.496	82	5.49	14.065	
7	-8.01	10.799	33	-3.33	12.015	58	1.17	13.567	83	5.67	14.167	
8	-7.83	10.839	34	-3.15	12.069	59	1.35	13.638	84	5.85	14.270	
9	-7.65	10.880	35	-2.97	12.124	60	1.53	13.710	85	6.03	9.104	
10	-7.47	10.922	36	-2.79	12.179	61	1.71	13.783	86	6.21	9.148	
11	-7.29	10.964	37	-2.61	12.235	62	1.89	13.857	87	6.39	9.228	
12	-7.11	11.006	38	-2.43	12.292	63	2.07	13.932	88	6.57	9.477	
13	-6.93	11.049	39	-2.25	12.349	64	2.25	14.008	89	6.75	9.733	
14	-6.75	11.092	40	-2.07	12.407	65	2.43	14.084	90	6.93	9.992	
15	-6.57	11.136	41	-1.89	12.466	66	2.61	14.161	91	7.11	10.248	
16	-6.39	11.181	42	-1.71	12.525	67	2.79	14.239	92	7.29	10.508	
17	-6.21	11.225	43	-1.53	12.585	68	2.97	14.318	93	7.47	10.780	
18	-6.03	11.271	44	-1.35	12.645	69	3.15	14.398	94	7.65	11.065	
19	-5.85	11.317	45	-1.17	12.706	70	3.33	14.479	95	7.83	11.363	
20	-5.67	11.363	46	-0.99	12.768	71	3.51	14.561	96	8.01	7.341	
21	-5.49	11.410	47	-0.81	12.831	72	3.69	14.643	97	8.19	7.541	
22	-5.31	11.457	48	-0.63	12.894	73	3.87	14.727	98	8.37	7.755	
23	-5.13	11.505	49	-0.45	12.958	74	4.05	14.812	99	8.55	7.983	
24	-4.95	11.554	50	-0.27	13.023	75	4.23	14.897	100	8.73	8.227	
25	-4.77	11.603	51	-0.09	13.088	76	4.41	13.567	101	8.91	8.489	
26	-4.59	11.652										

STEADY STATE CBOD INPUT CONDITIONS

***** POINT SOURCE INFLOW CONCENTRATIONS (PPM) *****

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	0.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	69	6.75	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.000
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	69.000	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	4.550
26	-4.59	0.000									

***** NONPOINT SOURCE LOADS (LBS/DAY) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	0.720	27	-4.41	0.720	52	0.09	0.720	77	4.59	0.720
2	-8.91	0.720	28	-4.23	0.720	53	0.27	0.720	78	4.77	0.720
3	-8.73	0.720	29	-4.05	0.720	54	0.45	0.720	79	4.95	0.720
4	-8.55	0.720	30	-3.87	0.720	55	0.63	0.720	80	5.13	0.720
5	-8.37	0.720	31	-3.69	0.720	56	0.81	0.720	81	5.31	0.720
6	-8.19	0.720	32	-3.51	0.720	57	0.99	0.720	82	5.49	0.720

7	-8.01	0.720	33	-3.33	0.720	58	1.17	0.720	83	5.67	0.720
8	-7.63	0.720	34	-3.15	0.720	59	1.35	0.720	84	5.85	0.720
9	-7.65	0.720	35	-2.97	0.720	60	1.53	0.720	85	6.03	0.720
10	-7.47	0.720	36	-2.79	0.720	61	1.71	0.720	86	6.21	0.792
11	-7.29	0.720	37	-2.61	0.720	62	1.89	0.720	87	6.39	1.080
12	-7.11	0.720	38	-2.43	0.720	63	2.07	0.720	88	6.57	1.080
13	-6.93	0.720	39	-2.25	0.720	64	2.25	0.720	89	6.75	1.080
14	-6.75	0.720	40	-2.07	0.720	65	2.43	0.720	90	6.93	1.080
15	-6.57	0.720	41	-1.89	0.720	66	2.61	0.720	91	7.11	1.080
16	-6.39	0.720	42	-1.71	0.720	67	2.79	0.720	92	7.29	1.080
17	-6.21	0.720	43	-1.53	0.720	68	2.97	0.720	93	7.47	1.080
18	-6.03	0.720	44	-1.35	0.720	69	3.15	0.720	94	7.65	1.080
19	-5.85	0.720	45	-1.17	0.720	70	3.33	0.720	95	7.83	1.080
20	-5.67	0.720	46	-0.99	0.720	71	3.51	0.720	96	8.01	1.080
21	-5.49	0.720	47	-0.81	0.720	72	3.69	0.720	97	8.19	1.080
22	-5.31	0.720	48	-0.63	0.720	73	3.87	0.720	98	8.37	1.080
23	-5.13	0.720	49	-0.45	0.720	74	4.05	0.720	99	8.55	1.080
24	-4.95	0.720	50	-0.27	0.720	75	4.23	0.720	100	8.73	1.080
25	-4.77	0.720	51	-0.09	0.720	76	4.41	0.720	101	8.91	1.080
26	-4.59	0.720									

 Red Chute Bayou TMDL 30/15 treatment 5 effluent DO
 **** STEADY STATE CBOD CONCENTRATIONS (PPM)
 **** OUTFLOW AT DOWNSTREAM END = 6.3 CFS

CONCENTRATIONS (PPM)					
JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	4.427	27	-4.41	6.175
2	-8.91	4.481	28	-4.23	6.259
3	-8.73	4.536	29	-4.05	6.345
4	-8.55	4.591	30	-3.87	6.431
5	-8.37	4.646	31	-3.69	6.519
6	-8.19	4.706	32	-3.51	6.609
7	-8.01	4.765	33	-3.33	6.700
8	-7.83	4.825	34	-3.15	6.793
9	-7.65	4.886	35	-2.97	6.887
10	-7.47	4.947	36	-2.79	6.983
11	-7.29	5.010	37	-2.61	7.081
12	-7.11	5.074	38	-2.43	7.180
13	-6.93	5.139	39	-2.25	7.281
14	-6.75	5.205	40	-2.07	7.383
15	-6.57	5.273	41	-1.89	7.488
16	-6.39	5.341	42	-1.71	7.594
17	-6.21	5.411	43	-1.53	7.702
18	-6.03	5.482	44	-1.35	7.812
19	-5.85	5.554	45	-1.17	7.923
20	-5.67	5.627	46	-0.99	8.037
21	-5.49	5.701	47	-0.81	8.152
22	-5.31	5.777	48	-0.63	8.270
23	-5.13	5.854	49	-0.45	8.389
24	-4.95	5.932	50	-0.27	8.511
25	-4.77	6.012	51	-0.09	8.634
26	-4.59	6.093			

***** STEADY STATE DO INPUT CONDITIONS *****

***** POINT SOURCE INFLOW CONCENTRATIONS (PPM) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000
7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	0.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.000
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.000
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.000
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.000
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.000
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.000
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.000
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.000
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.000
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.000
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.000
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.000
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.000
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.000
24	-4.95	0.000	50	-0.27	0.000	75	4.23	5.000	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	3.700
26	-4.59	0.000									

***** NONPOINT SOURCE LOADS (LBS/DAY) *****

JUNC NO	RIVER MILE	VALUE									
1	-9.09	0.000	27	-4.41	0.000	52	0.09	0.000	77	4.59	0.000
2	-8.91	0.000	28	-4.23	0.000	53	0.27	0.000	78	4.77	0.000
3	-8.73	0.000	29	-4.05	0.000	54	0.45	0.000	79	4.95	0.000
4	-8.55	0.000	30	-3.87	0.000	55	0.63	0.000	80	5.13	0.000
5	-8.37	0.000	31	-3.69	0.000	56	0.81	0.000	81	5.31	0.000
6	-8.19	0.000	32	-3.51	0.000	57	0.99	0.000	82	5.49	0.000

7	-8.01	0.000	33	-3.33	0.000	58	1.17	0.000	83	5.67	0.000
8	-7.83	0.000	34	-3.15	0.000	59	1.35	0.000	84	5.85	0.000
9	-7.65	0.000	35	-2.97	0.000	60	1.53	0.000	85	6.03	0.000
10	-7.47	0.000	36	-2.79	0.000	61	1.71	0.000	86	6.21	0.133
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.666
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.666
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.666
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.666
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.666
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.666
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.666
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.666
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.666
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.666
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.666
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.666
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.666
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	0.666
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.666
26	-4.59	0.000									

Red Chute Bayou TMDL 30/15 treatment 5 effluent DO
 STEADY STATE DO CONCENTRATIONS (PPM)
 OUTFLOW AT DOWNSTREAM END = 6.3 CFS

CONCENTRATIONS (PPM)					
JUNC NO	RIVER MILE	VALUE	RIVER MILE	VALUE	RIVER MILE
1	-9.09	6.558	.27	-4.41	6.334
2	-8.91	6.551	.28	-4.23	6.323
3	-8.73	6.544	.29	-4.05	6.312
4	-8.55	6.536	.30	-3.87	6.301
5	-8.37	6.529	.31	-3.69	6.290
6	-8.19	6.521	.32	-3.51	6.279
7	-8.01	6.514	.33	-3.33	6.268
8	-7.83	6.506	.34	-3.15	6.256
9	-7.65	6.498	.35	-2.97	6.245
10	-7.47	6.490	.36	-2.79	6.233
11	-7.29	6.482	.37	-2.61	6.221
12	-7.11	6.474	.38	-2.43	6.209
13	-6.93	6.465	.39	-2.25	6.196
14	-6.75	6.457	.40	-2.07	6.184
15	-6.57	6.448	.41	-1.89	6.171
16	-6.39	6.439	.42	-1.71	6.158
17	-6.21	6.430	.43	-1.53	6.144
18	-6.03	6.421	.44	-1.35	6.131
19	-5.85	6.412	.45	-1.17	6.117
20	-5.67	6.403	.46	-0.99	6.104
21	-5.49	6.393	.47	-0.81	6.090
22	-5.31	6.384	.48	-0.63	6.075
23	-5.13	6.374	.49	-0.45	6.061
24	-4.95	6.364	.50	-0.27	6.046
25	-4.77	6.354	.51	-0.09	6.031
26	-4.59	6.344			

Wasteload Allocation for Red Chute Bayou near Bossier City
Project File # 76
Author: Gibson E. Asuquo
Date: October 25, 1994
Revised: February 23, 1996 by Karen Norton; March 19, 1997 by Madeline Rogers

APPENDIX D
Vector Diagram of Outfall Locations

SCALE MILES
0 1/2 1
1/4 3/4

LEGEND:	
—	REDCHUTE BAYOU
—	SEWAGE PONDS
—	TRIBUTARIES/LAKES
- - -	CITY LIMITS
- - -	AIR FORCE BASE BOUNDARY
- - -	ROADS
- - -	RAILROADS
- - -	SAMPLING STATIONS
○	SURVEY STATIONS
—	MARSH
- - -	PIPELINE

REDCHUTE BAYOU

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JULY 1991

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