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

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October 25, 1994

REVISED BY:

MADELINE ROGERS

APRIL 10, 1997

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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 WP3512	4.300	0.030	0.047	1-cell oxidation pond
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

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 ($CBOD_5$/NH_3-N/effluent DO) and winter limits of 30/15/2 ($CBOD_5$/NH_3-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.

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

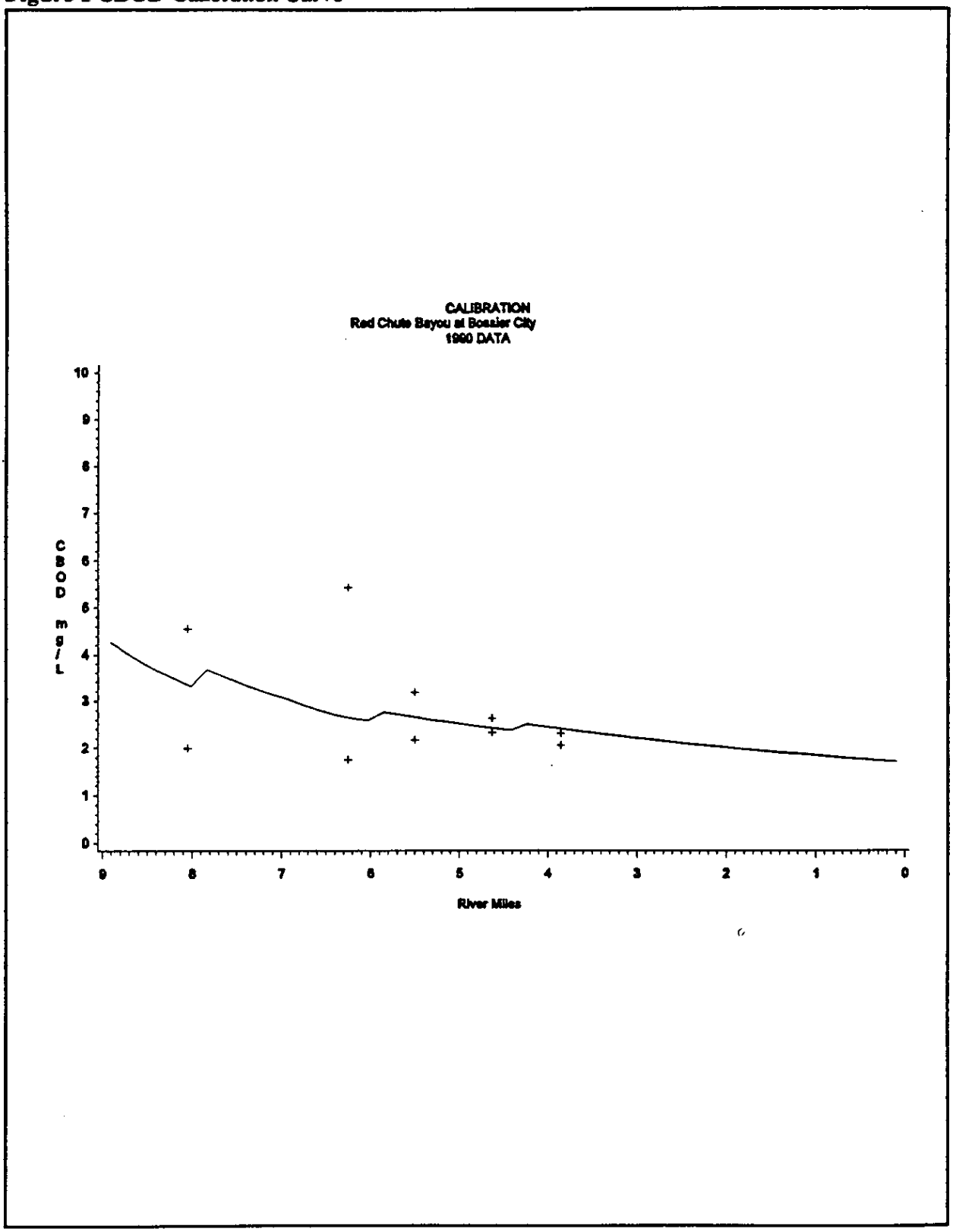


Figure 2 NBOD Calibration Curve

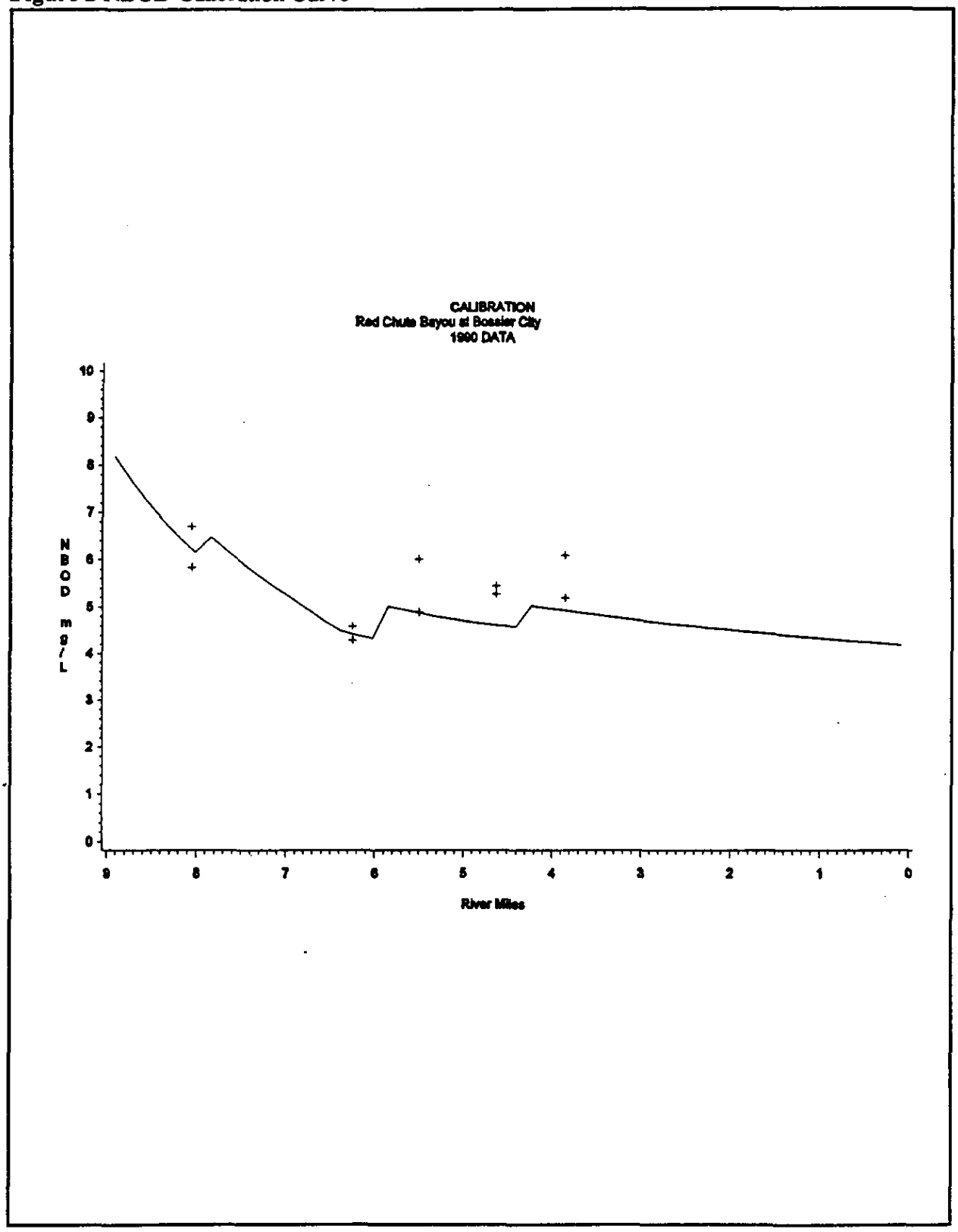


Figure 3 DO Calibration

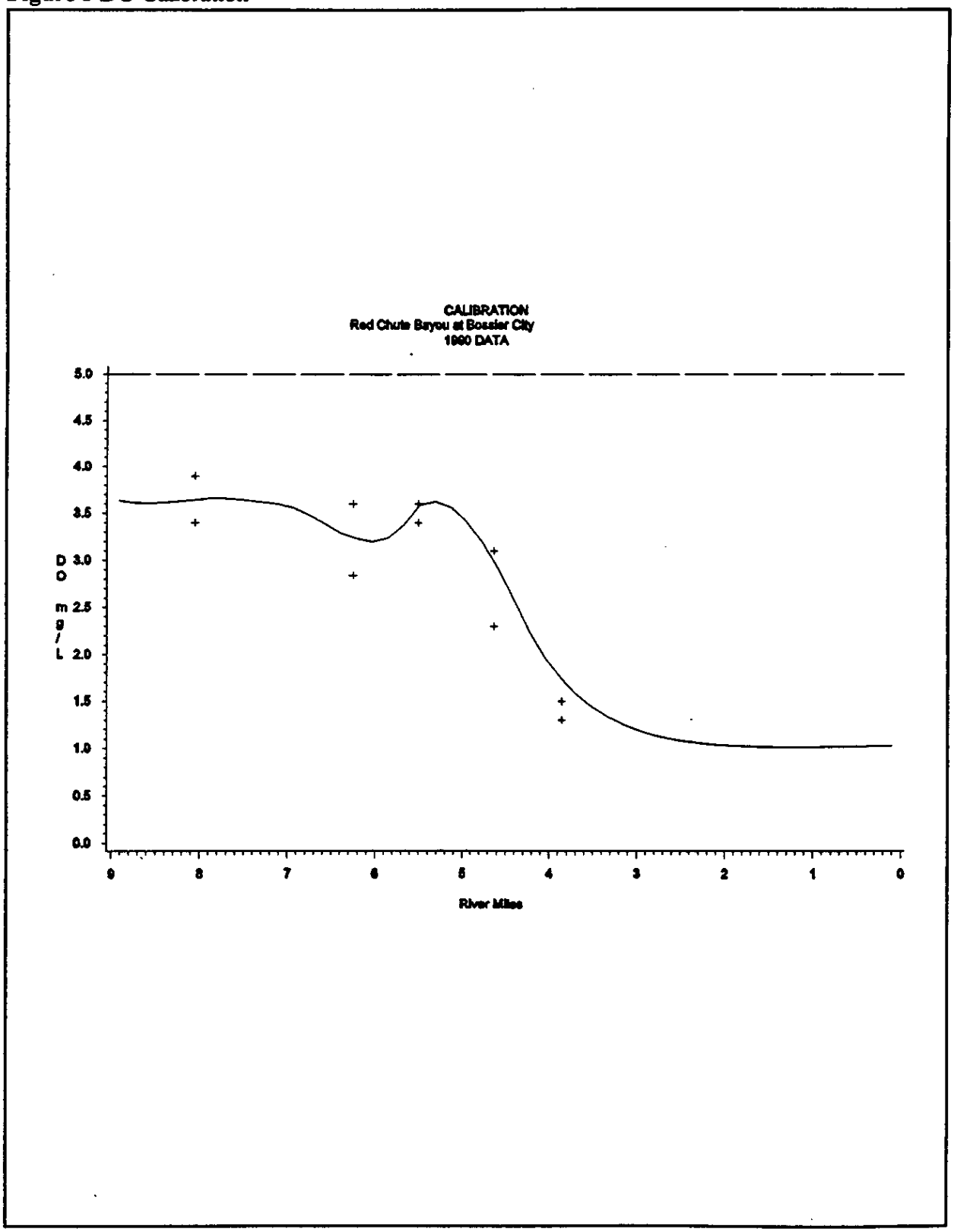


Figure 4 Summer Season Effluent DO=2 Projection Curve

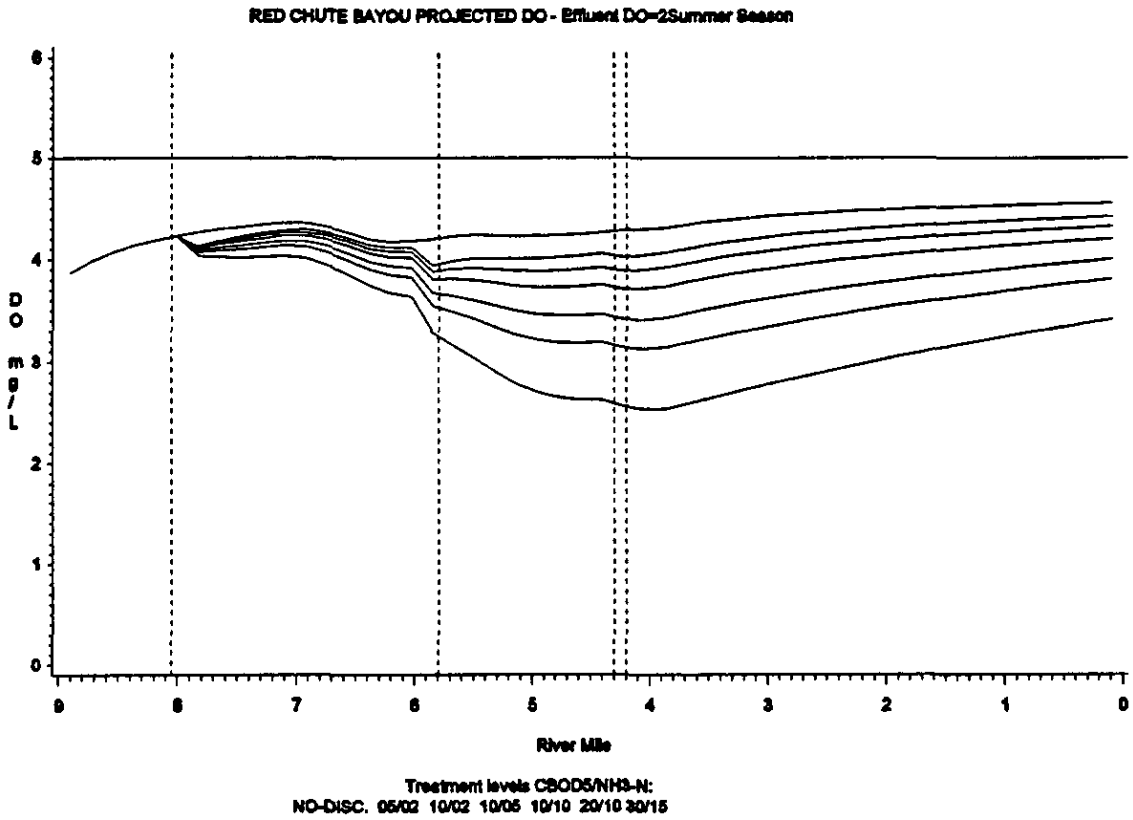


Figure 5 Summer Season Effluent DO=5 Projection Curve

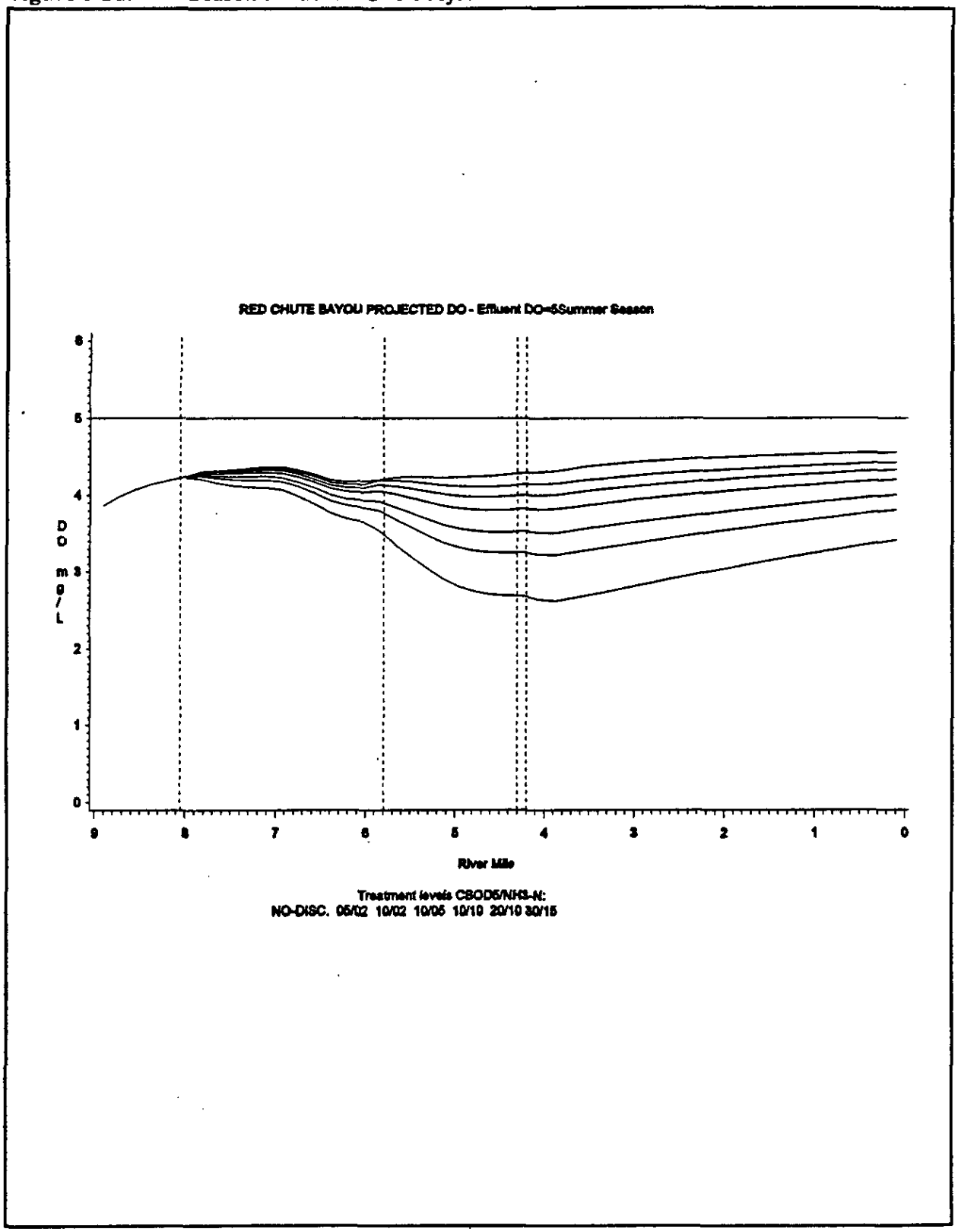


Figure 6 Summer Season Effluent DO=6 Projection Curve

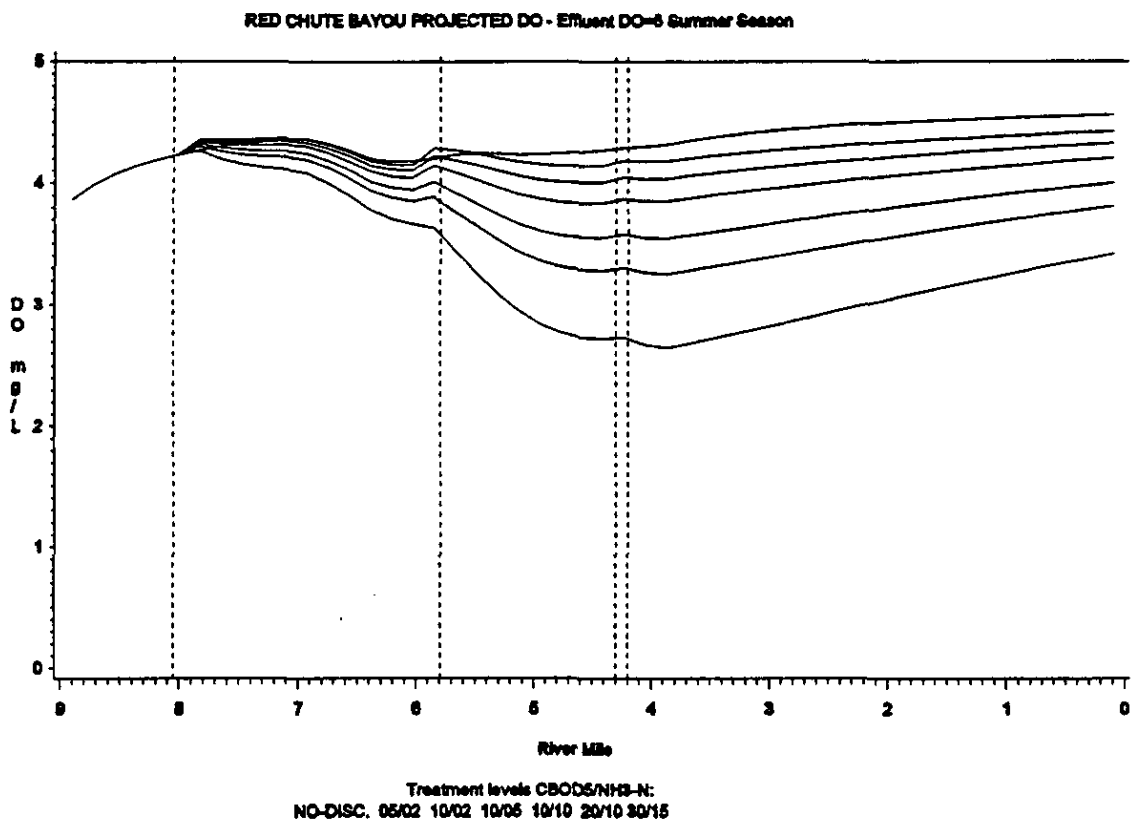


Figure 7 Winter Season Effluent DO=2 Projection Curve

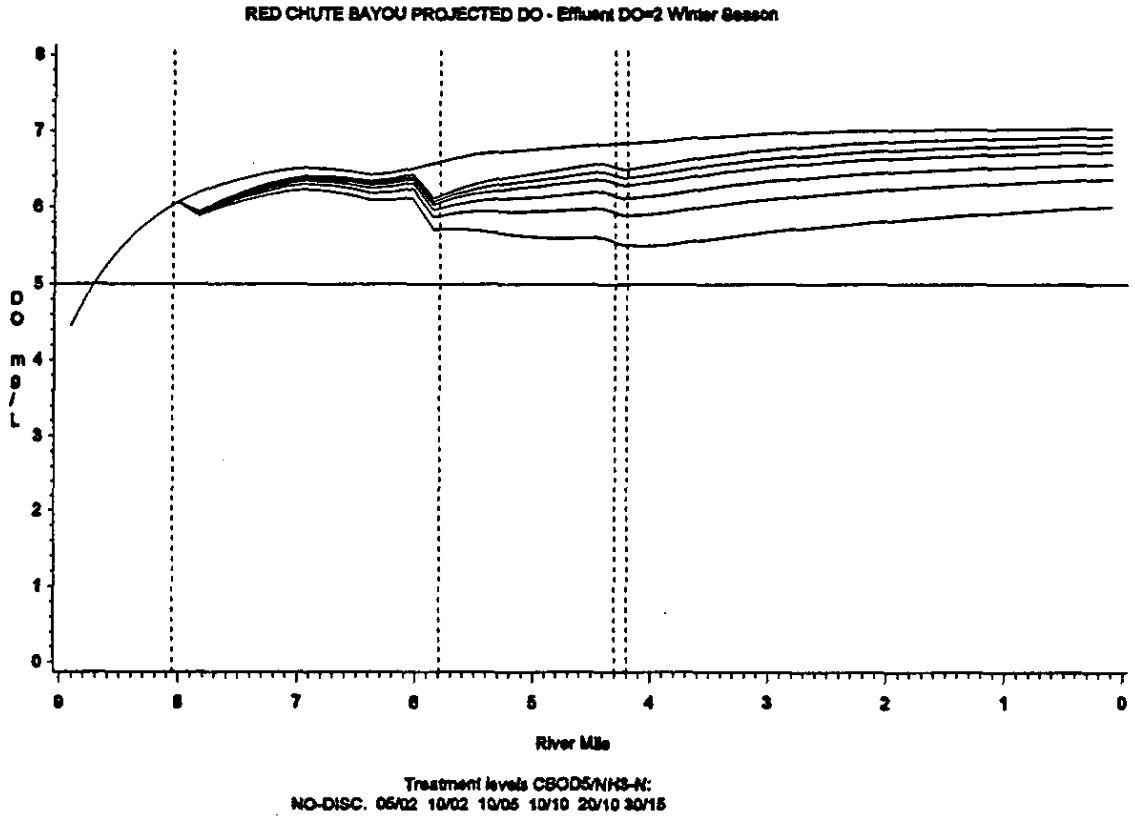


Figure 8 Winter Season Effluent DO=5 Projection Curve

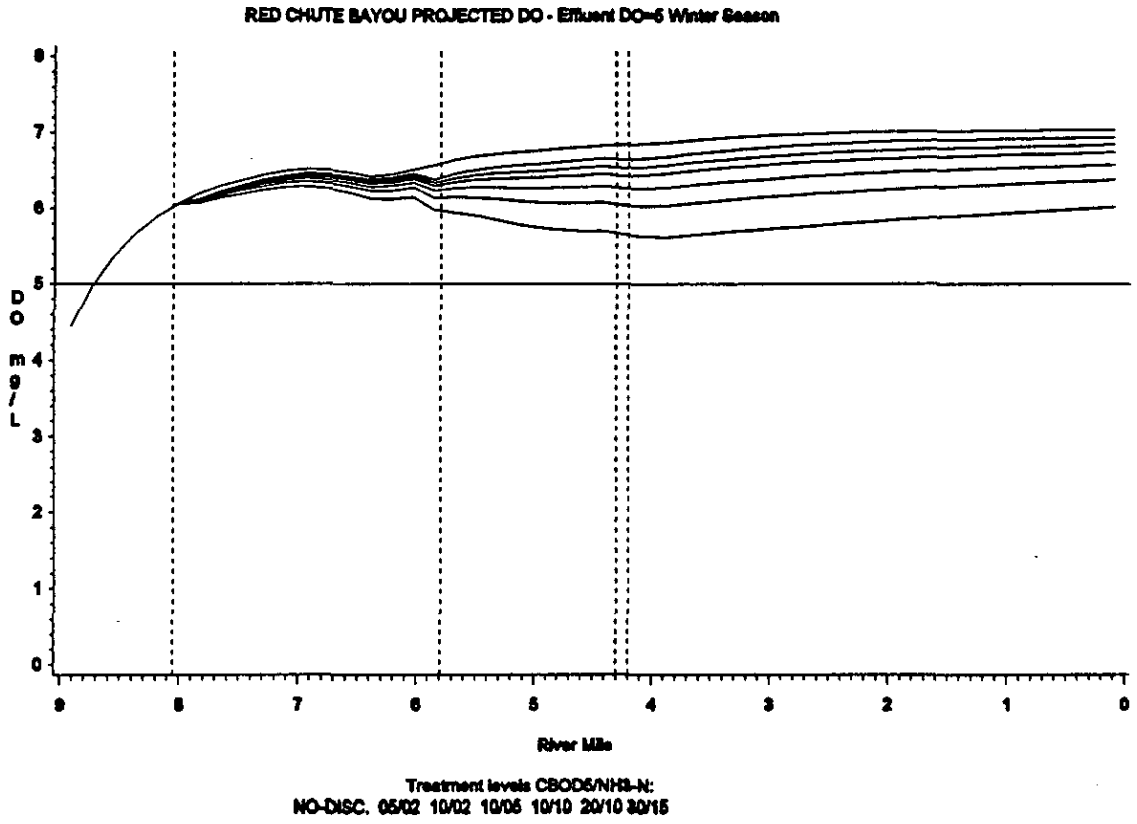
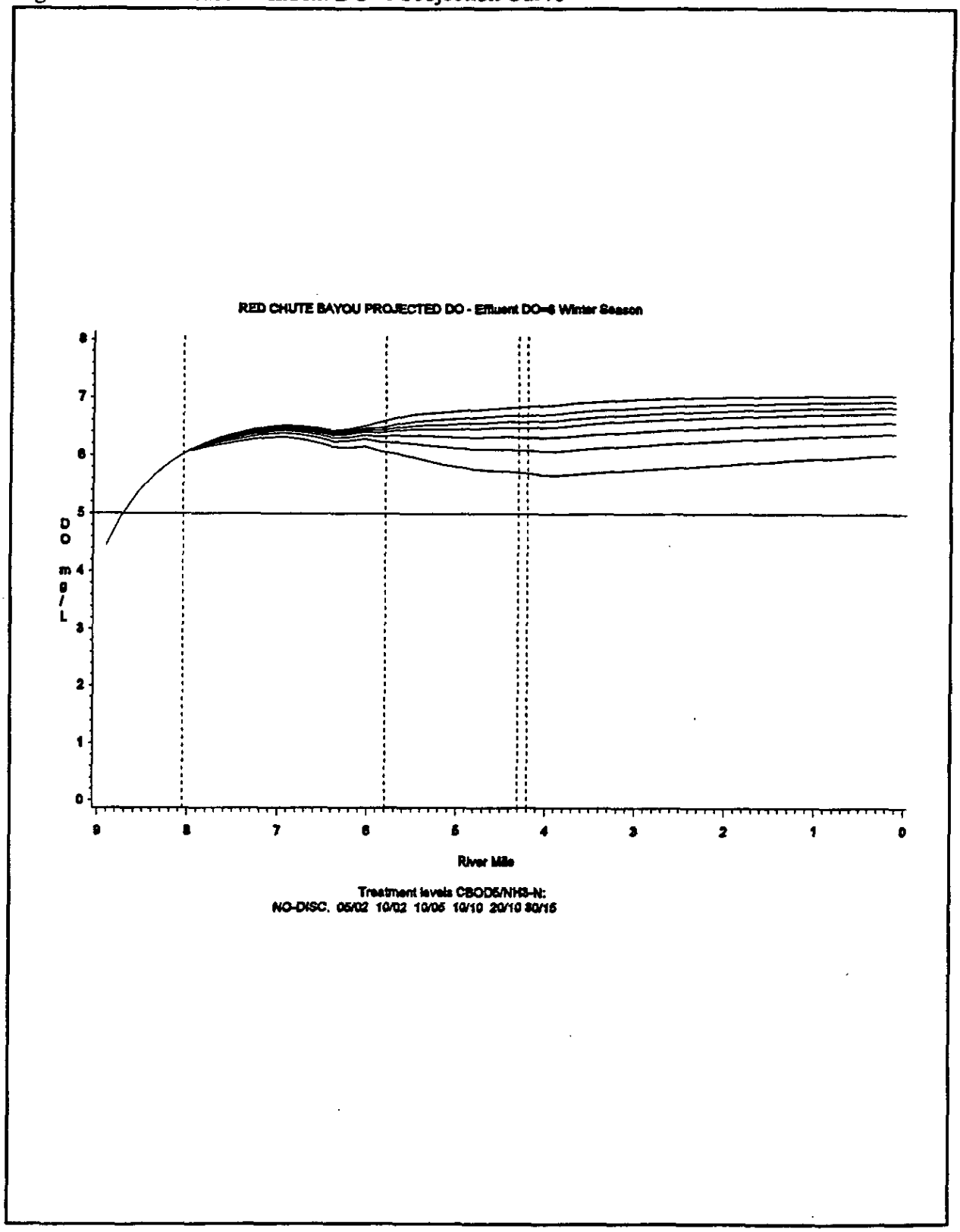


Figure 9 Winter Season Effluent DO=6 Projection Curve



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      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      1.000
               9.000      2.140      8.770
               7.800      0.040     52.485
               5.910      1.240      7.500
               4.300      0.047     45.000
               4.200      0.010     76.000
STOP
CBOD
SENS           1.000      1.000
               9.000      2.140      4.550
               7.800      0.040     41.100
               5.910      1.240      3.500
               4.300      0.047     10.000
               4.200      0.010     60.500
STOP
DO
SENS           1.000      1.000
               9.000      2.140      3.700
               7.800      0.040      6.400
               5.910      1.240      3.400
               4.300      0.047      1.400
               4.200      0.010      1.400
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

$CBOD_5$	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      8.770
                7.800      0.339     21.500
                5.796      0.579     21.500
                4.300      0.059     21.500
                4.200      0.115     21.500
STOP
CBOD
SENS            1.000      1.000
                9.000      3.449      4.550
                7.800      0.339     23.000
                5.796      0.579     23.000
                4.300      0.059     23.000
                4.200      0.115     23.000
STOP
DO
SENS            1.000      1.000
                9.000      3.449      3.700
                7.800      0.339      2.000
                5.796      0.579      2.000
                4.300      0.059      2.000
                4.200      0.115      2.000
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
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     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 TMDL Output Data - 10/05/2

```
LaDEQ 1.03**************************************************************************************************************************
**************************************************************************************************************************
   LLL                  III      MMM          MMM      NNN       NNN       OOOOOOOOOO         SSSSSSSSSSSS       SSSSSSSSSSSS
   LLL                  III      MMMM        MMMM      NNNN      NNN      OOOOOOOOOOOO        SSSSSSSSSSSSS      SSSSSSSSSSSSS
   LLL                  III      MMMMM      MMMMM      NNNNN     NNN     OOOOOOOOOOOOOO      SS                 SS
   LLL                  III      MMMMMM    MMMMMM      NNNNNN    NNN     OOO        OOO      SSSSSSSSSSSS       SSSSSSSSSSSS
   LLL                  III      MMM MMM MMM MMM      NNN NNN   NNN     OOO        OOO       SSSSSSSSSSSSS      SSSSSSSSSSSSS
   LLL                  III      MMM  MMMMM  MMM      NNN  NNN NNN     OOO        OOO             SSSS               SSSS
   LLL                  III      MMM   MMM   MMM      NNN   NNNNNN     OOO        OOO             SSSS               SSSS
   LLLLLLLLLLLLLLL      III      MMM    M    MMM      NNN    NNNNN     OOOOOOOOOOOOOO      SSSSSSSSSSSSSS     SSSSSSSSSSSSSS
   LLLLLLLLLLLLLLL      III      MMM         MMM      NNN     NNNN      OOOOOOOOOOOO       SSSSSSSSSSSS       SSSSSSSSSSSS
   LLLLLLLLLLLLLLL      III      MMM         MMM      NNN      NNN       OOOOOOOOOO         SSSSSSSSSSS        SSSSSSSSSSS
**************************************************************************************************************************
**************************************************************************************************************************
18-OCT-94
13:33:24

*********************     STEADY STATE WATER QUALITY MODEL
*********************
*********************     RUN TITLE.....Red Chute Bayou TMDL   10/05 treatment 2 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

JUNCT*N WIDTHS (FT)

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

JUNCTION SURFACE AREAS (SQFT)

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

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	3.241E+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	4.585E+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									

********** 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	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
11	-7.29	1.510	37	-2.61	1.510	62	1.89	1.510	87	6.39	1.695
12	-7.11	1.510	38	-2.43	1.510	63	2.07	1.510	88	6.57	1.405
13	-6.93	1.510	39	-2.25	1.510	64	2.25	1.510	89	6.75	1.116
14	-6.75	1.510	40	-2.07	1.510	65	2.43	1.510	90	6.93	0.827
15	-6.57	1.510	41	-1.89	1.510	66	2.61	1.510	91	7.11	0.714
16	-6.39	1.510	42	-1.71	1.510	67	2.79	1.510	92	7.29	0.714
17	-6.21	1.510	43	-1.53	1.510	68	2.97	1.510	93	7.47	0.714
18	-6.03	1.510	44	-1.35	1.510	69	3.15	1.510	94	7.65	0.714
19	-5.85	1.510	45	-1.17	1.510	70	3.33	1.510	95	7.83	0.714
20	-5.67	1.510	46	-0.99	1.510	71	3.51	1.510	96	8.01	0.714
21	-5.49	1.510	47	-0.81	1.510	72	3.69	1.510	97	8.19	0.714
22	-5.31	1.510	48	-0.63	1.510	73	3.87	1.666	98	8.37	0.714
23	-5.13	1.510	49	-0.45	1.510	74	4.05	1.736	99	8.55	0.714
24	-4.95	1.510	50	-0.27	1.510	75	4.23	1.728	100	8.73	0.714
25	-4.77	1.510	51	-0.09	1.510	76	4.41	1.723	101	8.91	0.714
26	-4.59	1.510									

********** JUNCTION WATER TEMPERATURES (DEG-C) **********
ALL VALUES = 29.250

********** INPUTED OXYGEN SATURATION CONCENTRATIONS (PPM) **********
ALL VALUES = 7.658

********** NET EVAPORATION - RAINFALL (IN/MO) **********
ALL VALUES = 0.000E+00

********** OXYGEN UPTAKE OF SEDIMENTS (GM 02/SQM/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	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	0.126
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	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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 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	0.740
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	3.700
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	3.700
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	3.700
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	3.700
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	3.700
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	3.700
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	3.700
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	3.700
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	3.700
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	3.700
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	3.700
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	3.700
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	3.700
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	3.700
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									

********** 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

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********** DEPTH OR VELOCITY DEPENDENT VARIABLES **********
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********** CROSSECTIONAL AREAS OF JUNCT*NS (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	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	80.387	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	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

11	-7.29	1.510	37	-2.61	1.510	62	1.89	1.510	87	6.39	1.695
12	-7.11	1.510	38	-2.43	1.510	63	2.07	1.510	88	6.57	1.405
13	-6.93	1.510	39	-2.25	1.510	64	2.25	1.510	89	6.75	1.116
14	-6.75	1.510	40	-2.07	1.510	65	2.43	1.510	90	6.93	0.827
15	-6.57	1.510	41	-1.89	1.510	66	2.61	1.510	91	7.11	0.714
16	-6.39	1.510	42	-1.71	1.510	67	2.79	1.510	92	7.29	0.714
17	-6.21	1.510	43	-1.53	1.510	68	2.97	1.510	93	7.47	0.714
18	-6.03	1.510	44	-1.35	1.510	69	3.15	1.510	94	7.65	0.714
19	-5.85	1.510	45	-1.17	1.510	70	3.33	1.510	95	7.83	0.714
20	-5.67	1.510	46	-0.99	1.510	71	3.51	1.510	96	8.01	0.714
21	-5.49	1.510	47	-0.81	1.510	72	3.69	1.510	97	8.19	0.714
22	-5.31	1.510	48	-0.63	1.510	73	3.87	1.666	98	8.37	0.714
23	-5.13	1.510	49	-0.45	1.510	74	4.05	1.736	99	8.55	0.714
24	-4.95	1.510	50	-0.27	1.510	75	4.23	1.728	100	8.73	0.714
25	-4.77	1.510	51	-0.09	1.510	76	4.41	1.723	101	8.91	0.714
26	-4.59	1.510									

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

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.078	27	-4.41	0.078	52	0.09	0.078	77	4.59	0.077
2	-8.91	0.078	28	-4.23	0.078	53	0.27	0.078	78	4.77	0.077
3	-8.73	0.078	29	-4.05	0.078	54	0.45	0.078	79	4.95	0.077
4	-8.55	0.078	30	-3.87	0.078	55	0.63	0.078	80	5.13	0.077
5	-8.37	0.078	31	-3.69	0.078	56	0.81	0.078	81	5.31	0.076
6	-8.19	0.078	32	-3.51	0.078	57	0.99	0.078	82	5.49	0.076
7	-8.01	0.078	33	-3.33	0.078	58	1.17	0.078	83	5.67	0.077
8	-7.83	0.078	34	-3.15	0.078	59	1.35	0.078	84	5.85	0.075
9	-7.65	0.078	35	-2.97	0.078	60	1.53	0.078	85	6.03	0.082
10	-7.47	0.078	36	-2.79	0.078	61	1.71	0.078	86	6.21	0.092
11	-7.29	0.078	37	-2.61	0.078	62	1.89	0.078	87	6.39	0.093
12	-7.11	0.078	38	-2.43	0.078	63	2.07	0.078	88	6.57	0.095
13	-6.93	0.078	39	-2.25	0.078	64	2.25	0.078	89	6.75	0.103
14	-6.75	0.078	40	-2.07	0.078	65	2.43	0.078	90	6.93	0.122
15	-6.57	0.078	41	-1.89	0.078	66	2.61	0.078	91	7.11	0.133
16	-6.39	0.078	42	-1.71	0.078	67	2.79	0.078	92	7.29	0.130
17	-6.21	0.078	43	-1.53	0.078	68	2.97	0.078	93	7.47	0.126
18	-6.03	0.078	44	-1.35	0.078	69	3.15	0.078	94	7.65	0.123
19	-5.85	0.078	45	-1.17	0.078	70	3.33	0.078	95	7.83	0.111
20	-5.67	0.078	46	-0.99	0.078	71	3.51	0.078	96	8.01	0.108
21	-5.49	0.078	47	-0.81	0.078	72	3.69	0.078	97	8.19	0.105
22	-5.31	0.078	48	-0.63	0.078	73	3.87	0.078	98	8.37	0.102
23	-5.13	0.078	49	-0.45	0.078	74	4.05	0.078	99	8.55	0.099
24	-4.95	0.078	50	-0.27	0.078	75	4.23	0.077	100	8.73	0.096
25	-4.77	0.078	51	-0.09	0.078	76	4.41	0.077	101	8.91	0.093
26	-4.59	0.078									

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

JUNC	RIVER		JUNC	RIVER		JUNC	RIVER		JUNC	RIVER	

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	7.640E+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									

********** ISAACS 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	2.120
14	-6.75	1.567	40	-2.07	1.567	65	2.43	1.567	90	6.93	2.863
15	-6.57	1.567	41	-1.89	1.567	66	2.61	1.567	91	7.11	3.314
16	-6.39	1.567	42	-1.71	1.567	67	2.79	1.567	92	7.29	3.314
17	-6.21	1.567	43	-1.53	1.567	68	2.97	1.567	93	7.47	3.314
18	-6.03	1.567	44	-1.35	1.567	69	3.15	1.567	94	7.65	3.314
19	-5.85	1.567	45	-1.17	1.567	70	3.33	1.567	95	7.83	3.314
20	-5.67	1.567	46	-0.99	1.567	71	3.51	1.567	96	8.01	3.314
21	-5.49	1.567	47	-0.81	1.567	72	3.69	1.567	97	8.19	3.314
22	-5.31	1.567	48	-0.63	1.567	73	3.87	1.420	98	8.37	3.314
23	-5.13	1.567	49	-0.45	1.567	74	4.05	1.363	99	8.55	3.314
24	-4.95	1.567	50	-0.27	1.567	75	4.23	1.370	100	8.73	3.314
25	-4.77	1.567	51	-0.09	1.567	76	4.41	1.374	101	8.91	3.314
26	-4.59	1.567									

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********** STEADY STATE FLOW CONDITIONS **********

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********** TOTAL INFLOWS = 6.3 CFS **********

********** TOTAL DIVERSIONS = 0.0 CFS **********

********** OUTFLOW AT DOWNSTREAM JUNCTION = 6.3 CFS **********

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********** POINT SOURCE INFLOWS (CFS) **********

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	0.579
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	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	0.023
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.113
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.113
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.113
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.113
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.113
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.113
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.113
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.113
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.113
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.113
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.113
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.113
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.113
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	0.113
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.113
26	-4.59	0.000									

********** POINT DIVERSIONS (CFS) **********

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	6.265	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	0.000	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.000
26	-4.59	0.000									

********** NONPOINT DIVERSIONS OR LOSSES (CFS) (EXCLUDING EVAPORATION) **********

ALL VALUES = 0.000E+00

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

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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	-4.129
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 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	6.456	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	5.894	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									

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STEADY STATE NBOD INPUT CONDITIONS

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POINT SOURCE INFLOW CONCENTRATIONS (PPM)

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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									

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NONPOINT SOURCE LOADS (LBS/DAY)

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JUNC NO	RIVER MILE	VALUE	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	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									

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********** Red Chute Bayou TMDL 10/05 treatment 2 effluent DO **********
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********** STEADY STATE NBOD CONCENTRATIONS (PPM) **********
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********** OUTFLOW AT DOWNSTREAM END = 6.3 CFS **********
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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	3.717	27	-4.41	4.219	52	0.09	5.128	77	4.59	6.391
2	-8.91	3.731	28	-4.23	4.246	53	0.27	5.178	78	4.77	6.475
3	-8.73	3.746	29	-4.05	4.273	54	0.45	5.229	79	4.95	6.565
4	-8.55	3.760	30	-3.87	4.301	55	0.63	5.281	80	5.13	6.662
5	-8.37	3.775	31	-3.69	4.329	56	0.81	5.334	81	5.31	6.765
6	-8.19	3.790	32	-3.51	4.359	57	0.99	5.389	82	5.49	6.877
7	-8.01	3.806	33	-3.33	4.389	58	1.17	5.445	83	5.67	6.996
8	-7.83	3.822	34	-3.15	4.420	59	1.35	5.502	84	5.85	7.118
9	-7.65	3.839	35	-2.97	4.451	60	1.53	5.561	85	6.03	5.739
10	-7.47	3.856	36	-2.79	4.484	61	1.71	5.621	86	6.21	5.825
11	-7.29	3.873	37	-2.61	4.517	62	1.89	5.683	87	6.39	5.929
12	-7.11	3.891	38	-2.43	4.551	63	2.07	5.747	88	6.57	6.147
13	-6.93	3.909	39	-2.25	4.586	64	2.25	5.812	89	6.75	6.372
14	-6.75	3.928	40	-2.07	4.621	65	2.43	5.879	90	6.93	6.597
15	-6.57	3.947	41	-1.89	4.658	66	2.61	5.947	91	7.11	6.811
16	-6.39	3.967	42	-1.71	4.696	67	2.79	6.017	92	7.29	7.026
17	-6.21	3.987	43	-1.53	4.734	68	2.97	6.089	93	7.47	7.252
18	-6.03	4.008	44	-1.35	4.774	69	3.15	6.163	94	7.65	7.491
19	-5.85	4.029	45	-1.17	4.814	70	3.33	6.238	95	7.83	7.743
20	-5.67	4.051	46	-0.99	4.856	71	3.51	6.316	96	8.01	6.902
21	-5.49	4.073	47	-0.81	4.899	72	3.69	6.395	97	8.19	7.157
22	-5.31	4.096	48	-0.63	4.942	73	3.87	6.477	98	8.37	7.431
23	-5.13	4.119	49	-0.45	4.987	74	4.05	6.561	99	8.55	7.726
24	-4.95	4.143	50	-0.27	5.033	75	4.23	6.646	100	8.73	8.046
25	-4.77	4.168	51	-0.09	5.080	76	4.41	6.311	101	8.91	8.393
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	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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									

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********** Red Chute Bayou TMDL 10/05 treatment 2 effluent DO **********
****
********** STEADY STATE CBOD CONCENTRATIONS (PPM) **********
********** **********
********** OUTFLOW AT DOWNSTREAM END = 6.3 CFS **********
****
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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	1.527	27	-4.41	2.134	52	0.09	3.229	77	4.59	4.737
2	-8.91	1.544	28	-4.23	2.166	53	0.27	3.288	78	4.77	4.836
3	-8.73	1.561	29	-4.05	2.199	54	0.45	3.349	79	4.95	4.937
4	-8.55	1.579	30	-3.87	2.233	55	0.63	3.412	80	5.13	5.041
5	-8.37	1.597	31	-3.69	2.267	56	0.81	3.476	81	5.31	5.148
6	-8.19	1.615	32	-3.51	2.303	57	0.99	3.541	82	5.49	5.258
7	-8.01	1.634	33	-3.33	2.339	58	1.17	3.609	83	5.67	5.371
8	-7.83	1.654	34	-3.15	2.376	59	1.35	3.677	84	5.85	5.485
9	-7.65	1.674	35	-2.97	2.414	60	1.53	3.748	85	6.03	3.765
10	-7.47	1.695	36	-2.79	2.453	61	1.71	3.821	86	6.21	3.831
11	-7.29	1.716	37	-2.61	2.493	62	1.89	3.895	87	6.39	3.901
12	-7.11	1.737	38	-2.43	2.534	63	2.07	3.971	88	6.57	4.029
13	-6.93	1.759	39	-2.25	2.576	64	2.25	4.049	89	6.75	4.160
14	-6.75	1.782	40	-2.07	2.619	65	2.43	4.129	90	6.93	4.292
15	-6.57	1.805	41	-1.89	2.664	66	2.61	4.211	91	7.11	4.418
16	-6.39	1.829	42	-1.71	2.709	67	2.79	4.295	92	7.29	4.544
17	-6.21	1.854	43	-1.53	2.755	68	2.97	4.381	93	7.47	4.678
18	-6.03	1.879	44	-1.35	2.803	69	3.15	4.469	94	7.65	4.821
19	-5.85	1.904	45	-1.17	2.852	70	3.33	4.559	95	7.83	4.973
20	-5.67	1.931	46	-0.99	2.902	71	3.51	4.652	96	8.01	3.669
21	-5.49	1.958	47	-0.81	2.953	72	3.69	4.747	97	8.19	3.789
22	-5.31	1.985	48	-0.63	3.005	73	3.87	4.844	98	8.37	3.918
23	-5.13	2.014	49	-0.45	3.059	74	4.05	4.945	99	8.55	4.058
24	-4.95	2.043	50	-0.27	3.114	75	4.23	5.047	100	8.73	4.209
25	-4.77	2.072	51	-0.09	3.171	76	4.41	4.641	101	8.91	4.372
26	-4.59	2.103									

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									

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****
********** 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	JUNC NO	RIVER MILE	VALUE
1	-9.09	4.574	27	-4.41	4.444	52	0.09	4.207	77	4.59	3.737
2	-8.91	4.571	28	-4.23	4.437	53	0.27	4.194	78	4.77	3.729
3	-8.73	4.567	29	-4.05	4.430	54	0.45	4.181	79	4.95	3.731
4	-8.55	4.563	30	-3.87	4.423	55	0.63	4.167	80	5.13	3.745
5	-8.37	4.559	31	-3.69	4.416	56	0.81	4.152	81	5.31	3.772
6	-8.19	4.555	32	-3.51	4.408	57	0.99	4.137	82	5.49	3.798
7	-8.01	4.551	33	-3.33	4.400	58	1.17	4.121	83	5.67	3.810
8	-7.83	4.547	34	-3.15	4.392	59	1.35	4.105	84	5.85	3.805
9	-7.65	4.543	35	-2.97	4.384	60	1.53	4.088	85	6.03	4.017
10	-7.47	4.538	36	-2.79	4.376	61	1.71	4.071	86	6.21	4.026
11	-7.29	4.534	37	-2.61	4.367	62	1.89	4.052	87	6.39	4.061
12	-7.11	4.529	38	-2.43	4.358	63	2.07	4.033	88	6.57	4.136
13	-6.93	4.524	39	-2.25	4.349	64	2.25	4.012	89	6.75	4.199
14	-6.75	4.520	40	-2.07	4.340	65	2.43	3.991	90	6.93	4.238
15	-6.57	4.515	41	-1.89	4.330	66	2.61	3.967	91	7.11	4.235
16	-6.39	4.509	42	-1.71	4.321	67	2.79	3.943	92	7.29	4.210
17	-6.21	4.504	43	-1.53	4.311	68	2.97	3.916	93	7.47	4.182
18	-6.03	4.499	44	-1.35	4.300	69	3.15	3.887	94	7.65	4.148
19	-5.85	4.493	45	-1.17	4.290	70	3.33	3.855	95	7.83	4.109
20	-5.67	4.488	46	-0.99	4.279	71	3.51	3.820	96	8.01	4.232
21	-5.49	4.482	47	-0.81	4.268	72	3.69	3.781	97	8.19	4.190
22	-5.31	4.476	48	-0.63	4.256	73	3.87	3.738	98	8.37	4.137
23	-5.13	4.470	49	-0.45	4.245	74	4.05	3.718	99	8.55	4.070
24	-4.95	4.464	50	-0.27	4.233	75	4.23	3.710	100	8.73	3.981
25	-4.77	4.457	51	-0.09	4.220	76	4.41	3.753	101	8.91	3.863
26	-4.59	4.451									

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

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LaDEQ 1.03**********************************************************************************************************************
**********************************************************************************************************************
   LLL                  III      MMM           MMM      NNN       NNN       OOOOOOOOOO         SSSSSSSSSSSS       SSSSSSSSSSSS
   LLL                  III      MMMM         MMMM      NNNN      NNN      OOOOOOOOOOOO        SSSSSSSSSSSSS      SSSSSSSSSSSSS
   LLL                  III      MMMMM       MMMMM      NNNNN     NNN     OOOOOOOOOOOOOO      SS                 SS
   LLL                  III      MMMMMM     MMMMMM      NNNNNN    NNN     OOO        OOO      SSSSSSSSSSSS       SSSSSSSSSSSS
   LLL                  III      MMM MMM MMM MMM      NNN NNN   NNN     OOO        OOO       SSSSSSSSSSSSS      SSSSSSSSSSSSS
   LLL                  III      MMM  MMMMM  MMM      NNN  NNN NNN     OOO        OOO             SSSS               SSSS
   LLL                  III      MMM   MMM   MMM      NNN   NNNNNN     OOO        OOO             SSSS               SSSS
   LLLLLLLLLLLLLLL      III      MMM    M    MMM      NNN    NNNNN     OOOOOOOOOOOOOO     SSSSSSSSSSSSSS     SSSSSSSSSSSSSS
   LLLLLLLLLLLLLLL      III      MMM         MMM      NNN     NNNN      OOOOOOOOOOOO      SSSSSSSSSSSSS      SSSSSSSSSSSSS
   LLLLLLLLLLLLLLL      III      MMM         MMM      NNN      NNN       OOOOOOOOOO       SSSSSSSSSSSS       SSSSSSSSSSSS
**********************************************************************************************************************
**********************************************************************************************************************
18-OCT-94
13:34:57

*********************      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
```

ESTUARY / STREAM INPUT DATA

JUNCTION WIDTHS (FT)

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

JUNCTION SURFACE AREAS (SQFT)

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

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	3.241E+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	4.585E+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									

********** 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	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
11	-7.29	1.510	37	-2.61	1.510	62	1.89	1.510	87	6.39	1.695
12	-7.11	1.510	38	-2.43	1.510	63	2.07	1.510	88	6.57	1.405
13	-6.93	1.510	39	-2.25	1.510	64	2.25	1.510	89	6.75	1.116
14	-6.75	1.510	40	-2.07	1.510	65	2.43	1.510	90	6.93	0.827
15	-6.57	1.510	41	-1.89	1.510	66	2.61	1.510	91	7.11	0.714
16	-6.39	1.510	42	-1.71	1.510	67	2.79	1.510	92	7.29	0.714
17	-6.21	1.510	43	-1.53	1.510	68	2.97	1.510	93	7.47	0.714
18	-6.03	1.510	44	-1.35	1.510	69	3.15	1.510	94	7.65	0.714
19	-5.85	1.510	45	-1.17	1.510	70	3.33	1.510	95	7.83	0.714
20	-5.67	1.510	46	-0.99	1.510	71	3.51	1.510	96	8.01	0.714
21	-5.49	1.510	47	-0.81	1.510	72	3.69	1.510	97	8.19	0.714
22	-5.31	1.510	48	-0.63	1.510	73	3.87	1.666	98	8.37	0.714
23	-5.13	1.510	49	-0.45	1.510	74	4.05	1.736	99	8.55	0.714
24	-4.95	1.510	50	-0.27	1.510	75	4.23	1.728	100	8.73	0.714
25	-4.77	1.510	51	-0.09	1.510	76	4.41	1.723	101	8.91	0.714
26	-4.59	1.510									

********** JUNCTION WATER TEMPERATURES (DEG-C) **********
ALL VALUES = 29.250

********** INPUTED OXYGEN SATURATION CONCENTRATIONS (PPM) **********
ALL VALUES = 7.658

********** NET EVAPORATION - RAINFALL (IN/MO) **********
ALL VALUES = 0.000E+00

********** OXYGEN UPTAKE OF SEDIMENTS (GM 02/SQM/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	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	0.126
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	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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 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	0.740
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	3.700
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	3.700
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	3.700
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	3.700
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	3.700
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	3.700
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	3.700
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	3.700
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	3.700
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	3.700
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	3.700
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	3.700
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	3.700
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	3.700
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									

********** 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

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********** DEPTH OR VELOCITY DEPENDENT VARIABLES **********
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********** CROSSECTIONAL AREAS OF JUNCT*NS (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	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	80.387	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	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

11	-7.29	1.510	37	-2.61	1.510	62	1.89	1.510	87	6.39	1.695
12	-7.11	1.510	38	-2.43	1.510	63	2.07	1.510	88	6.57	1.405
13	-6.93	1.510	39	-2.25	1.510	64	2.25	1.510	89	6.75	1.116
14	-6.75	1.510	40	-2.07	1.510	65	2.43	1.510	90	6.93	0.827
15	-6.57	1.510	41	-1.89	1.510	66	2.61	1.510	91	7.11	0.714
16	-6.39	1.510	42	-1.71	1.510	67	2.79	1.510	92	7.29	0.714
17	-6.21	1.510	43	-1.53	1.510	68	2.97	1.510	93	7.47	0.714
18	-6.03	1.510	44	-1.35	1.510	69	3.15	1.510	94	7.65	0.714
19	-5.85	1.510	45	-1.17	1.510	70	3.33	1.510	95	7.83	0.714
20	-5.67	1.510	46	-0.99	1.510	71	3.51	1.510	96	8.01	0.714
21	-5.49	1.510	47	-0.81	1.510	72	3.69	1.510	97	8.19	0.714
22	-5.31	1.510	48	-0.63	1.510	73	3.87	1.666	98	8.37	0.714
23	-5.13	1.510	49	-0.45	1.510	74	4.05	1.736	99	8.55	0.714
24	-4.95	1.510	50	-0.27	1.510	75	4.23	1.728	100	8.73	0.714
25	-4.77	1.510	51	-0.09	1.510	76	4.41	1.723	101	8.91	0.714
26	-4.59	1.510									

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

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.078	27	-4.41	0.078	52	0.09	0.078	77	4.59	0.077
2	-8.91	0.078	28	-4.23	0.078	53	0.27	0.078	78	4.77	0.077
3	-8.73	0.078	29	-4.05	0.078	54	0.45	0.078	79	4.95	0.077
4	-8.55	0.078	30	-3.87	0.078	55	0.63	0.078	80	5.13	0.077
5	-8.37	0.078	31	-3.69	0.078	56	0.81	0.078	81	5.31	0.076
6	-8.19	0.078	32	-3.51	0.078	57	0.99	0.078	82	5.49	0.076
7	-8.01	0.078	33	-3.33	0.078	58	1.17	0.078	83	5.67	0.077
8	-7.83	0.078	34	-3.15	0.078	59	1.35	0.078	84	5.85	0.075
9	-7.65	0.078	35	-2.97	0.078	60	1.53	0.078	85	6.03	0.082
10	-7.47	0.078	36	-2.79	0.078	61	1.71	0.078	86	6.21	0.092
11	-7.29	0.078	37	-2.61	0.078	62	1.89	0.078	87	6.39	0.093
12	-7.11	0.078	38	-2.43	0.078	63	2.07	0.078	88	6.57	0.095
13	-6.93	0.078	39	-2.25	0.078	64	2.25	0.078	89	6.75	0.103
14	-6.75	0.078	40	-2.07	0.078	65	2.43	0.078	90	6.93	0.122
15	-6.57	0.078	41	-1.89	0.078	66	2.61	0.078	91	7.11	0.133
16	-6.39	0.078	42	-1.71	0.078	67	2.79	0.078	92	7.29	0.130
17	-6.21	0.078	43	-1.53	0.078	68	2.97	0.078	93	7.47	0.126
18	-6.03	0.078	44	-1.35	0.078	69	3.15	0.078	94	7.65	0.123
19	-5.85	0.078	45	-1.17	0.078	70	3.33	0.078	95	7.83	0.111
20	-5.67	0.078	46	-0.99	0.078	71	3.51	0.078	96	8.01	0.108
21	-5.49	0.078	47	-0.81	0.078	72	3.69	0.078	97	8.19	0.105
22	-5.31	0.078	48	-0.63	0.078	73	3.87	0.078	98	8.37	0.102
23	-5.13	0.078	49	-0.45	0.078	74	4.05	0.078	99	8.55	0.099
24	-4.95	0.078	50	-0.27	0.078	75	4.23	0.077	100	8.73	0.096
25	-4.77	0.078	51	-0.09	0.078	76	4.41	0.077	101	8.91	0.093
26	-4.59	0.078									

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

JUNC	RIVER		JUNC	RIVER		JUNC	RIVER		JUNC	RIVER	

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	7.640E+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									

********** ISAACS 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	2.120
14	-6.75	1.567	40	-2.07	1.567	65	2.43	1.567	90	6.93	2.863
15	-6.57	1.567	41	-1.89	1.567	66	2.61	1.567	91	7.11	3.314
16	-6.39	1.567	42	-1.71	1.567	67	2.79	1.567	92	7.29	3.314
17	-6.21	1.567	43	-1.53	1.567	68	2.97	1.567	93	7.47	3.314
18	-6.03	1.567	44	-1.35	1.567	69	3.15	1.567	94	7.65	3.314
19	-5.85	1.567	45	-1.17	1.567	70	3.33	1.567	95	7.83	3.314
20	-5.67	1.567	46	-0.99	1.567	71	3.51	1.567	96	8.01	3.314
21	-5.49	1.567	47	-0.81	1.567	72	3.69	1.567	97	8.19	3.314
22	-5.31	1.567	48	-0.63	1.567	73	3.87	1.420	98	8.37	3.314
23	-5.13	1.567	49	-0.45	1.567	74	4.05	1.363	99	8.55	3.314
24	-4.95	1.567	50	-0.27	1.567	75	4.23	1.370	100	8.73	3.314
25	-4.77	1.567	51	-0.09	1.567	76	4.41	1.374	101	8.91	3.314
26	-4.59	1.567									

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********** STEADY STATE FLOW CONDITIONS **********
********** **********
********** TOTAL INFLOWS = 6.3 CFS **********
********** TOTAL DIVERSIONS = 0.0 CFS **********
********** OUTFLOW AT DOWNSTREAM JUNCTION = 6.3 CFS **********
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********** POINT SOURCE INFLOWS (CFS) **********

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	0.579
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	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	0.023
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.113
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.113
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.113
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.113
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.113
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.113
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.113
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.113
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.113
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.113
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.113
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.113
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.113
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	0.113
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.113
26	-4.59	0.000									

********** POINT DIVERSIONS (CFS) **********

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	6.265	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	0.000	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.000
26	-4.59	0.000									

********** NONPOINT DIVERSIONS OR LOSSES (CFS) (EXCLUDING EVAPORATION) **********

ALL VALUES = 0.000E+00

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

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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	-4.129
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 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	6.456	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	5.894	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 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	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	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 10/05 treatment 5 effluent DO **********
****
********** STEADY STATE NBOD CONCENTRATIONS (PPM) **********
****
********** OUTFLOW AT DOWNSTREAM END = 6.3 CFS **********
****
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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	3.717	27	-4.41	4.219	52	0.09	5.128	77	4.59	6.391
2	-8.91	3.731	28	-4.23	4.246	53	0.27	5.178	78	4.77	6.475
3	-8.73	3.746	29	-4.05	4.273	54	0.45	5.229	79	4.95	6.565
4	-8.55	3.760	30	-3.87	4.301	55	0.63	5.281	80	5.13	6.662
5	-8.37	3.775	31	-3.69	4.329	56	0.81	5.334	81	5.31	6.765
6	-8.19	3.790	32	-3.51	4.359	57	0.99	5.389	82	5.49	6.877
7	-8.01	3.806	33	-3.33	4.389	58	1.17	5.445	83	5.67	6.996
8	-7.83	3.822	34	-3.15	4.420	59	1.35	5.502	84	5.85	7.118
9	-7.65	3.839	35	-2.97	4.451	60	1.53	5.561	85	6.03	5.739
10	-7.47	3.856	36	-2.79	4.484	61	1.71	5.621	86	6.21	5.825
11	-7.29	3.873	37	-2.61	4.517	62	1.89	5.683	87	6.39	5.929
12	-7.11	3.891	38	-2.43	4.551	63	2.07	5.747	88	6.57	6.147
13	-6.93	3.909	39	-2.25	4.586	64	2.25	5.812	89	6.75	6.372
14	-6.75	3.928	40	-2.07	4.621	65	2.43	5.879	90	6.93	6.597
15	-6.57	3.947	41	-1.89	4.658	66	2.61	5.947	91	7.11	6.811
16	-6.39	3.967	42	-1.71	4.696	67	2.79	6.017	92	7.29	7.026
17	-6.21	3.987	43	-1.53	4.734	68	2.97	6.089	93	7.47	7.252
18	-6.03	4.008	44	-1.35	4.774	69	3.15	6.163	94	7.65	7.491
19	-5.85	4.029	45	-1.17	4.814	70	3.33	6.238	95	7.83	7.743
20	-5.67	4.051	46	-0.99	4.856	71	3.51	6.316	96	8.01	6.902
21	-5.49	4.073	47	-0.81	4.899	72	3.69	6.395	97	8.19	7.157
22	-5.31	4.096	48	-0.63	4.942	73	3.87	6.477	98	8.37	7.431
23	-5.13	4.119	49	-0.45	4.987	74	4.05	6.561	99	8.55	7.726
24	-4.95	4.143	50	-0.27	5.033	75	4.23	6.646	100	8.73	8.046
25	-4.77	4.168	51	-0.09	5.080	76	4.41	6.311	101	8.91	8.393
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	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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									

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********** Red Chute Bayou TMDL 10/05 treatment 5 effluent DO **********
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********** STEADY STATE CBOD CONCENTRATIONS (PPM) **********
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********** OUTFLOW AT DOWNSTREAM END = 6.3 CFS **********
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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	1.527	27	-4.41	2.134	52	0.09	3.229	77	4.59	4.737
2	-8.91	1.544	28	-4.23	2.166	53	0.27	3.288	78	4.77	4.836
3	-8.73	1.561	29	-4.05	2.199	54	0.45	3.349	79	4.95	4.937
4	-8.55	1.579	30	-3.87	2.233	55	0.63	3.412	80	5.13	5.041
5	-8.37	1.597	31	-3.69	2.267	56	0.81	3.476	81	5.31	5.148
6	-8.19	1.615	32	-3.51	2.303	57	0.99	3.541	82	5.49	5.258
7	-8.01	1.634	33	-3.33	2.339	58	1.17	3.609	83	5.67	5.371
8	-7.83	1.654	34	-3.15	2.376	59	1.35	3.677	84	5.85	5.485
9	-7.65	1.674	35	-2.97	2.414	60	1.53	3.748	85	6.03	3.765
10	-7.47	1.695	36	-2.79	2.453	61	1.71	3.821	86	6.21	3.831
11	-7.29	1.716	37	-2.61	2.493	62	1.89	3.895	87	6.39	3.901
12	-7.11	1.737	38	-2.43	2.534	63	2.07	3.971	88	6.57	4.029
13	-6.93	1.759	39	-2.25	2.576	64	2.25	4.049	89	6.75	4.160
14	-6.75	1.782	40	-2.07	2.619	65	2.43	4.129	90	6.93	4.292
15	-6.57	1.805	41	-1.89	2.664	66	2.61	4.211	91	7.11	4.418
16	-6.39	1.829	42	-1.71	2.709	67	2.79	4.295	92	7.29	4.544
17	-6.21	1.854	43	-1.53	2.755	68	2.97	4.381	93	7.47	4.678
18	-6.03	1.879	44	-1.35	2.803	69	3.15	4.469	94	7.65	4.821
19	-5.85	1.904	45	-1.17	2.852	70	3.33	4.559	95	7.83	4.973
20	-5.67	1.931	46	-0.99	2.902	71	3.51	4.652	96	8.01	3.669
21	-5.49	1.958	47	-0.81	2.953	72	3.69	4.747	97	8.19	3.789
22	-5.31	1.985	48	-0.63	3.005	73	3.87	4.844	98	8.37	3.918
23	-5.13	2.014	49	-0.45	3.059	74	4.05	4.945	99	8.55	4.058
24	-4.95	2.043	50	-0.27	3.114	75	4.23	5.047	100	8.73	4.209
25	-4.77	2.072	51	-0.09	3.171	76	4.41	4.641	101	8.91	4.372
26	-4.59	2.103									

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********** STEADY STATE DO INPUT CONDITIONS **********
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********** 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	5.000
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	5.000
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	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									

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********** Red Chute Bayou TMDL 10/05 treatment 5 effluent DO **********
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********** STEADY STATE DO CONCENTRATIONS (PPM) **********
****
********** *OUTFLOW AT DOWNSTREAM END = 6.3 CFS* **********
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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	4.574	27	-4.41	4.444	52	0.09	4.209	77	4.59	3.811
2	-8.91	4.571	28	-4.23	4.437	53	0.27	4.196	78	4.77	3.817
3	-8.73	4.567	29	-4.05	4.430	54	0.45	4.182	79	4.95	3.836
4	-8.55	4.563	30	-3.87	4.423	55	0.63	4.169	80	5.13	3.868
5	-8.37	4.559	31	-3.69	4.416	56	0.81	4.155	81	5.31	3.917
6	-8.19	4.555	32	-3.51	4.408	57	0.99	4.140	82	5.49	3.971
7	-8.01	4.551	33	-3.33	4.400	58	1.17	4.126	83	5.67	4.018
8	-7.83	4.547	34	-3.15	4.392	59	1.35	4.110	84	5.85	4.059
9	-7.65	4.543	35	-2.97	4.384	60	1.53	4.095	85	6.03	4.036
10	-7.47	4.538	36	-2.79	4.376	61	1.71	4.078	86	6.21	4.048
11	-7.29	4.534	37	-2.61	4.367	62	1.89	4.062	87	6.39	4.086
12	-7.11	4.529	38	-2.43	4.358	63	2.07	4.044	88	6.57	4.166
13	-6.93	4.524	39	-2.25	4.349	64	2.25	4.026	89	6.75	4.235
14	-6.75	4.520	40	-2.07	4.340	65	2.43	4.008	90	6.93	4.284
15	-6.57	4.515	41	-1.89	4.331	66	2.61	3.988	91	7.11	4.294
16	-6.39	4.509	42	-1.71	4.321	67	2.79	3.968	92	7.29	4.286
17	-6.21	4.504	43	-1.53	4.311	68	2.97	3.947	93	7.47	4.280
18	-6.03	4.499	44	-1.35	4.301	69	3.15	3.925	94	7.65	4.278
19	-5.85	4.493	45	-1.17	4.290	70	3.33	3.901	95	7.83	4.281
20	-5.67	4.488	46	-0.99	4.279	71	3.51	3.876	96	8.01	4.232
21	-5.49	4.482	47	-0.81	4.268	72	3.69	3.850	97	8.19	4.190
22	-5.31	4.476	48	-0.63	4.257	73	3.87	3.822	98	8.37	4.137
23	-5.13	4.470	49	-0.45	4.245	74	4.05	3.819	99	8.55	4.070
24	-4.95	4.464	50	-0.27	4.233	75	4.23	3.831	100	8.73	3.981
25	-4.77	4.457	51	-0.09	4.221	76	4.41	3.815	101	8.91	3.863
26	-4.59	4.451									

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

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LaDEQ 1.03**************************************************************************************************************************
**************************************************************************************************************************
   LLL                III     MMM         MMM     NNN      NNN       OOOOOOOOOO         SSSSSSSSSSSS       SSSSSSSSSSSS
   LLL                III     MMMM       MMMM     NNNN     NNN      OOOOOOOOOOOO        SSSSSSSSSSSSS      SSSSSSSSSSSSS
   LLL                III     MMMMM     MMMMM     NNNNN    NNN     OOOOOOOOOOOOOO      SS                 SS
   LLL                III     MMMMMM   MMMMMM     NNNNNN   NNN     OOO        OOO      SSSSSSSSSSSS       SSSSSSSSSSSS
   LLL                III     MMM MMM MMM MMM     NNN NNN  NNN     OOO        OOO      SSSSSSSSSSSSS      SSSSSSSSSSSSS
   LLL                III     MMM  MMMMM  MMM     NNN  NNN NNN     OOO        OOO             SSSS               SSSS
   LLL                III     MMM   MMM   MMM     NNN   NNNNNN     OOO        OOO             SSSS               SSSS
   LLLLLLLLLLLLLLL    III     MMM    M    MMM     NNN    NNNNN     OOOOOOOOOOOOOO     SSSSSSSSSSSSSS     SSSSSSSSSSSSSS
   LLLLLLLLLLLLLLL    III     MMM         MMM     NNN     NNNN      OOOOOOOOOOOO      SSSSSSSSSSSSS      SSSSSSSSSSSSS
   LLLLLLLLLLLLLLL    III     MMM         MMM     NNN      NNN       OOOOOOOOOO       SSSSSSSSSSSS       SSSSSSSSSSSS
**************************************************************************************************************************
**************************************************************************************************************************
18-OCT-94
14:59:28

*********************     STEADY STATE WATER QUALITY MODEL
*********************
*********************     RUN TITLE.....Red Chute Bayou TMDL 30/15 treatment 2 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
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ESTUARY/STREAM INPUT DATA

JUNCT*N WIDTHS (FT)

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

JUNCTION SURFACE AREAS (SQFT)

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

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	3.241E+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	4.585E+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									

********** 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	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
11	-7.29	1.510	37	-2.61	1.510	62	1.89	1.510	87	6.39	1.695
12	-7.11	1.510	38	-2.43	1.510	63	2.07	1.510	88	6.57	1.405
13	-6.93	1.510	39	-2.25	1.510	64	2.25	1.510	89	6.75	1.116
14	-6.75	1.510	40	-2.07	1.510	65	2.43	1.510	90	6.93	0.827
15	-6.57	1.510	41	-1.89	1.510	66	2.61	1.510	91	7.11	0.714
16	-6.39	1.510	42	-1.71	1.510	67	2.79	1.510	92	7.29	0.714
17	-6.21	1.510	43	-1.53	1.510	68	2.97	1.510	93	7.47	0.714
18	-6.03	1.510	44	-1.35	1.510	69	3.15	1.510	94	7.65	0.714
19	-5.85	1.510	45	-1.17	1.510	70	3.33	1.510	95	7.83	0.714
20	-5.67	1.510	46	-0.99	1.510	71	3.51	1.510	96	8.01	0.714
21	-5.49	1.510	47	-0.81	1.510	72	3.69	1.510	97	8.19	0.714
22	-5.31	1.510	48	-0.63	1.510	73	3.87	1.666	98	8.37	0.714
23	-5.13	1.510	49	-0.45	1.510	74	4.05	1.736	99	8.55	0.714
24	-4.95	1.510	50	-0.27	1.510	75	4.23	1.728	100	8.73	0.714
25	-4.77	1.510	51	-0.09	1.510	76	4.41	1.723	101	8.91	0.714
26	-4.59	1.510									

********** JUNCTION WATER TEMPERATURES (DEG-C) **********
ALL VALUES = 19.140

********** INPUTED OXYGEN SATURATION CONCENTRATIONS (PPM) **********
ALL VALUES = 9.250

********** NET EVAPORATION - RAINFALL (IN/MO) **********
ALL VALUES = 0.000E+00

********** OXYGEN UPTAKE OF SEDIMENTS (GM 02/SQM/DAY) **********
ALL VALUES = 0.947

********** CBOD DEOXYGENATION RATES CORRECTED TO STREAM TEMPS - (1/DAY) **********
ALL VALUES = 0.096

********** CBOD SEDIMENTATION RATES - (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	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	0.126
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	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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 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	0.740
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	3.700
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	3.700
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	3.700
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	3.700
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	3.700
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	3.700
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	3.700
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	3.700
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	3.700
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	3.700
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	3.700
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	3.700
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	3.700
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	3.700
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									

********** 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

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********** DEPTH OR VELOCITY DEPENDENT VARIABLES **********
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********** CROSSECTIONAL AREAS OF JUNCT*NS (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	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	80.387	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	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

11	-7.29	1.510	37	-2.61	1.510	62	1.89	1.510	87	6.39	1.695
12	-7.11	1.510	38	-2.43	1.510	63	2.07	1.510	88	6.57	1.405
13	-6.93	1.510	39	-2.25	1.510	64	2.25	1.510	89	6.75	1.116
14	-6.75	1.510	40	-2.07	1.510	65	2.43	1.510	90	6.93	0.827
15	-6.57	1.510	41	-1.89	1.510	66	2.61	1.510	91	7.11	0.714
16	-6.39	1.510	42	-1.71	1.510	67	2.79	1.510	92	7.29	0.714
17	-6.21	1.510	43	-1.53	1.510	68	2.97	1.510	93	7.47	0.714
18	-6.03	1.510	44	-1.35	1.510	69	3.15	1.510	94	7.65	0.714
19	-5.85	1.510	45	-1.17	1.510	70	3.33	1.510	95	7.83	0.714
20	-5.67	1.510	46	-0.99	1.510	71	3.51	1.510	96	8.01	0.714
21	-5.49	1.510	47	-0.81	1.510	72	3.69	1.510	97	8.19	0.714
22	-5.31	1.510	48	-0.63	1.510	73	3.87	1.666	98	8.37	0.714
23	-5.13	1.510	49	-0.45	1.510	74	4.05	1.736	99	8.55	0.714
24	-4.95	1.510	50	-0.27	1.510	75	4.23	1.728	100	8.73	0.714
25	-4.77	1.510	51	-0.09	1.510	76	4.41	1.723	101	8.91	0.714
26	-4.59	1.510									

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

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.078	27	-4.41	0.078	52	0.09	0.078	77	4.59	0.077
2	-8.91	0.078	28	-4.23	0.078	53	0.27	0.078	78	4.77	0.077
3	-8.73	0.078	29	-4.05	0.078	54	0.45	0.078	79	4.95	0.077
4	-8.55	0.078	30	-3.87	0.078	55	0.63	0.078	80	5.13	0.077
5	-8.37	0.078	31	-3.69	0.078	56	0.81	0.078	81	5.31	0.076
6	-8.19	0.078	32	-3.51	0.078	57	0.99	0.078	82	5.49	0.076
7	-8.01	0.078	33	-3.33	0.078	58	1.17	0.078	83	5.67	0.077
8	-7.83	0.078	34	-3.15	0.078	59	1.35	0.078	84	5.85	0.075
9	-7.65	0.078	35	-2.97	0.078	60	1.53	0.078	85	6.03	0.082
10	-7.47	0.078	36	-2.79	0.078	61	1.71	0.078	86	6.21	0.092
11	-7.29	0.078	37	-2.61	0.078	62	1.89	0.078	87	6.39	0.093
12	-7.11	0.078	38	-2.43	0.078	63	2.07	0.078	88	6.57	0.095
13	-6.93	0.078	39	-2.25	0.078	64	2.25	0.078	89	6.75	0.103
14	-6.75	0.078	40	-2.07	0.078	65	2.43	0.078	90	6.93	0.122
15	-6.57	0.078	41	-1.89	0.078	66	2.61	0.078	91	7.11	0.133
16	-6.39	0.078	42	-1.71	0.078	67	2.79	0.078	92	7.29	0.130
17	-6.21	0.078	43	-1.53	0.078	68	2.97	0.078	93	7.47	0.126
18	-6.03	0.078	44	-1.35	0.078	69	3.15	0.078	94	7.65	0.123
19	-5.85	0.078	45	-1.17	0.078	70	3.33	0.078	95	7.83	0.111
20	-5.67	0.078	46	-0.99	0.078	71	3.51	0.078	96	8.01	0.108
21	-5.49	0.078	47	-0.81	0.078	72	3.69	0.078	97	8.19	0.105
22	-5.31	0.078	48	-0.63	0.078	73	3.87	0.078	98	8.37	0.102
23	-5.13	0.078	49	-0.45	0.078	74	4.05	0.078	99	8.55	0.099
24	-4.95	0.078	50	-0.27	0.078	75	4.23	0.077	100	8.73	0.096
25	-4.77	0.078	51	-0.09	0.078	76	4.41	0.077	101	8.91	0.093
26	-4.59	0.078									

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

JUNC	RIVER		JUNC	RIVER		JUNC	RIVER		JUNC	RIVER	

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	7.640E+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									

********** ISAACS 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	1.233	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									

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STEADY STATE FLOW CONDITIONS

TOTAL INFLOWS = 6.3 CFS

TOTAL DIVERSIONS = 0.0 CFS

OUTFLOW AT DOWNSTREAM JUNCTION = 6.3 CFS

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POINT SOURCE INFLOWS (CFS)

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	0.579
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	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	0.023
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.113
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.113
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.113
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.113
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.113
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.113
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.113
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.113
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.113
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.113
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.113
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.113
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.113
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	0.113
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.113
26	-4.59	0.000									

********** POINT DIVERSIONS (CFS) **********

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	6.265	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	0.000	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.000
26	-4.59	0.000									

********** NONPOINT DIVERSIONS OR LOSSES (CFS) (EXCLUDING EVAPORATION) **********

ALL VALUES = 0.000E+00

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

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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	-4.129
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 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	6.456	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	5.894	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									

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

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********** 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	8.770
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	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									

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********** Red Chute Bayou TMDL 30/15 treatment 2 effluent DO **********

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********** STEADY STATE NBOD CONCENTRATIONS (PPM) **********

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********** OUTFLOW AT DOWNSTREAM END = 6.3 CFS **********

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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	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									

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

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

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********** Red Chute Bayou TMDL 30/15 treatment 2 effluent DO **********

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********** STEADY STATE CBOD CONCENTRATIONS (PPM) **********

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********** OUTFLOW AT DOWNSTREAM END = 6.3 CFS **********

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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	6.641
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	5.273	41	-1.89	7.488	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									

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

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********** 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	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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	6.088
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 - 30/15/5

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LaDEQ 1.03**********************************************************************************************************************
**********************************************************************************************************************
   LLL                  III      MMM          MMM      NNN       NNN       OOOOOOOOOOO         SSSSSSSSSSSS       SSSSSSSSSSSS
   LLL                  III      MMMM        MMMM      NNNN      NNN      OOOOOOOOOOOOO       SSSSSSSSSSSSS      SSSSSSSSSSSSS
   LLL                  III      MMMMM      MMMMM      NNNNN     NNN     OOOOOOOOOOOOOOO     SS                 SS
   LLL                  III      MMMMMM    MMMMMM      NNNNNN    NNN     OOO         OOO     SSSSSSSSSSSS       SSSSSSSSSSSS
   LLL                  III      MMM MMM MMM MMM       NNN NNN   NNN     OOO         OOO     SSSSSSSSSSSSS      SSSSSSSSSSSSS
   LLL                  III      MMM  MMMMM  MMM       NNN  NNN NNN     OOO         OOO             SSSS               SSSS
   LLL                  III      MMM   MMM   MMM       NNN   NNNNNN     OOO         OOO             SSSS               SSSS
   LLLLLLLLLLLLLLL      III      MMM    M      MMM      NNN    NNNNN     OOOOOOOOOOOOOOO     SSSSSSSSSSSSSS     SSSSSSSSSSSSSS
   LLLLLLLLLLLLLLL      III      MMM           MMM      NNN     NNNN      OOOOOOOOOOOOO      SSSSSSSSSSSSS      SSSSSSSSSSSSS
   LLLLLLLLLLLLLLL      III      MMM           MMM      NNN      NNN       OOOOOOOOOOO       SSSSSSSSSSSSS      SSSSSSSSSSSSS
**********************************************************************************************************************
**********************************************************************************************************************
12-OCT-94
10:04:48

*********************     STEADY STATE WATER QUALITY MODEL
*********************
*********************     RUN TITLE.....Red Chute Bayou TMDL 30/15 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
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ESTUARY / STREAM INPUT DATA

JUNCTION WIDTHS (FT)

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

JUNCTION SURFACE AREAS (SQFT)

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

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	3.241E+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	4.585E+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									

********** 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	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
11	-7.29	1.510	37	-2.61	1.510	62	1.89	1.510	87	6.39	1.695
12	-7.11	1.510	38	-2.43	1.510	63	2.07	1.510	88	6.57	1.405
13	-6.93	1.510	39	-2.25	1.510	64	2.25	1.510	89	6.75	1.116
14	-6.75	1.510	40	-2.07	1.510	65	2.43	1.510	90	6.93	0.827
15	-6.57	1.510	41	-1.89	1.510	66	2.61	1.510	91	7.11	0.714
16	-6.39	1.510	42	-1.71	1.510	67	2.79	1.510	92	7.29	0.714
17	-6.21	1.510	43	-1.53	1.510	68	2.97	1.510	93	7.47	0.714
18	-6.03	1.510	44	-1.35	1.510	69	3.15	1.510	94	7.65	0.714
19	-5.85	1.510	45	-1.17	1.510	70	3.33	1.510	95	7.83	0.714
20	-5.67	1.510	46	-0.99	1.510	71	3.51	1.510	96	8.01	0.714
21	-5.49	1.510	47	-0.81	1.510	72	3.69	1.510	97	8.19	0.714
22	-5.31	1.510	48	-0.63	1.510	73	3.87	1.666	98	8.37	0.714
23	-5.13	1.510	49	-0.45	1.510	74	4.05	1.736	99	8.55	0.714
24	-4.95	1.510	50	-0.27	1.510	75	4.23	1.728	100	8.73	0.714
25	-4.77	1.510	51	-0.09	1.510	76	4.41	1.723	101	8.91	0.714
26	-4.59	1.510									

********** JUNCTION WATER TEMPERATURES (DEG-C) **********
ALL VALUES = 19.140

********** INPUTED OXYGEN SATURATION CONCENTRATIONS (PPM) **********
ALL VALUES = 9.250

********** NET EVAPORATION - RAINFALL (IN/MO) **********
ALL VALUES = 0.000E+00

********** OXYGEN UPTAKE OF SEDIMENTS (GM 02/SQM/DAY) **********
ALL VALUES = 0.947

********** CBOD DEOXYGENATION RATES CORRECTED TO STREAM TEMPS - (1/DAY) **********
ALL VALUES = 0.096

********** CBOD SEDIMENTATION RATES - (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	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	0.126
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	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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 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	0.740
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	3.700
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	3.700
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	3.700
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	3.700
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	3.700
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	3.700
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	3.700
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	3.700
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	3.700
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	3.700
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	3.700
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	3.700
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	3.700
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	3.700
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									

********** 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

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********** DEPTH OR VELOCITY DEPENDENT VARIABLES **********
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********** CROSSECTIONAL AREAS OF JUNCT*NS (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	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	80.387	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	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

11	-7.29	1.510	37	-2.61	1.510	62	1.89	1.510	87	6.39	1.695
12	-7.11	1.510	38	-2.43	1.510	63	2.07	1.510	88	6.57	1.405
13	-6.93	1.510	39	-2.25	1.510	64	2.25	1.510	89	6.75	1.116
14	-6.75	1.510	40	-2.07	1.510	65	2.43	1.510	90	6.93	0.827
15	-6.57	1.510	41	-1.89	1.510	66	2.61	1.510	91	7.11	0.714
16	-6.39	1.510	42	-1.71	1.510	67	2.79	1.510	92	7.29	0.714
17	-6.21	1.510	43	-1.53	1.510	68	2.97	1.510	93	7.47	0.714
18	-6.03	1.510	44	-1.35	1.510	69	3.15	1.510	94	7.65	0.714
19	-5.85	1.510	45	-1.17	1.510	70	3.33	1.510	95	7.83	0.714
20	-5.67	1.510	46	-0.99	1.510	71	3.51	1.510	96	8.01	0.714
21	-5.49	1.510	47	-0.81	1.510	72	3.69	1.510	97	8.19	0.714
22	-5.31	1.510	48	-0.63	1.510	73	3.87	1.666	98	8.37	0.714
23	-5.13	1.510	49	-0.45	1.510	74	4.05	1.736	99	8.55	0.714
24	-4.95	1.510	50	-0.27	1.510	75	4.23	1.728	100	8.73	0.714
25	-4.77	1.510	51	-0.09	1.510	76	4.41	1.723	101	8.91	0.714
26	-4.59	1.510									

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

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	0.078	27	-4.41	0.078	52	0.09	0.078	77	4.59	0.077
2	-8.91	0.078	28	-4.23	0.078	53	0.27	0.078	78	4.77	0.077
3	-8.73	0.078	29	-4.05	0.078	54	0.45	0.078	79	4.95	0.077
4	-8.55	0.078	30	-3.87	0.078	55	0.63	0.078	80	5.13	0.077
5	-8.37	0.078	31	-3.69	0.078	56	0.81	0.078	81	5.31	0.076
6	-8.19	0.078	32	-3.51	0.078	57	0.99	0.078	82	5.49	0.076
7	-8.01	0.078	33	-3.33	0.078	58	1.17	0.078	83	5.67	0.077
8	-7.83	0.078	34	-3.15	0.078	59	1.35	0.078	84	5.85	0.075
9	-7.65	0.078	35	-2.97	0.078	60	1.53	0.078	85	6.03	0.082
10	-7.47	0.078	36	-2.79	0.078	61	1.71	0.078	86	6.21	0.092
11	-7.29	0.078	37	-2.61	0.078	62	1.89	0.078	87	6.39	0.093
12	-7.11	0.078	38	-2.43	0.078	63	2.07	0.078	88	6.57	0.095
13	-6.93	0.078	39	-2.25	0.078	64	2.25	0.078	89	6.75	0.103
14	-6.75	0.078	40	-2.07	0.078	65	2.43	0.078	90	6.93	0.122
15	-6.57	0.078	41	-1.89	0.078	66	2.61	0.078	91	7.11	0.133
16	-6.39	0.078	42	-1.71	0.078	67	2.79	0.078	92	7.29	0.130
17	-6.21	0.078	43	-1.53	0.078	68	2.97	0.078	93	7.47	0.126
18	-6.03	0.078	44	-1.35	0.078	69	3.15	0.078	94	7.65	0.123
19	-5.85	0.078	45	-1.17	0.078	70	3.33	0.078	95	7.83	0.111
20	-5.67	0.078	46	-0.99	0.078	71	3.51	0.078	96	8.01	0.108
21	-5.49	0.078	47	-0.81	0.078	72	3.69	0.078	97	8.19	0.105
22	-5.31	0.078	48	-0.63	0.078	73	3.87	0.078	98	8.37	0.102
23	-5.13	0.078	49	-0.45	0.078	74	4.05	0.078	99	8.55	0.099
24	-4.95	0.078	50	-0.27	0.078	75	4.23	0.077	100	8.73	0.096
25	-4.77	0.078	51	-0.09	0.078	76	4.41	0.077	101	8.91	0.093
26	-4.59	0.078									

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

JUNC	RIVER		JUNC	RIVER		JUNC	RIVER		JUNC	RIVER	

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	7.640E+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									

********** ISAACS 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	1.233	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									

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STEADY STATE FLOW CONDITIONS

TOTAL INFLOWS = 6.3 CFS

TOTAL DIVERSIONS = 0.0 CFS

OUTFLOW AT DOWNSTREAM JUNCTION = 6.3 CFS

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POINT SOURCE INFLOWS (CFS)

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	0.579
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	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	0.023
11	-7.29	0.000	37	-2.61	0.000	62	1.89	0.000	87	6.39	0.113
12	-7.11	0.000	38	-2.43	0.000	63	2.07	0.000	88	6.57	0.113
13	-6.93	0.000	39	-2.25	0.000	64	2.25	0.000	89	6.75	0.113
14	-6.75	0.000	40	-2.07	0.000	65	2.43	0.000	90	6.93	0.113
15	-6.57	0.000	41	-1.89	0.000	66	2.61	0.000	91	7.11	0.113
16	-6.39	0.000	42	-1.71	0.000	67	2.79	0.000	92	7.29	0.113
17	-6.21	0.000	43	-1.53	0.000	68	2.97	0.000	93	7.47	0.113
18	-6.03	0.000	44	-1.35	0.000	69	3.15	0.000	94	7.65	0.113
19	-5.85	0.000	45	-1.17	0.000	70	3.33	0.000	95	7.83	0.113
20	-5.67	0.000	46	-0.99	0.000	71	3.51	0.000	96	8.01	0.113
21	-5.49	0.000	47	-0.81	0.000	72	3.69	0.000	97	8.19	0.113
22	-5.31	0.000	48	-0.63	0.000	73	3.87	0.000	98	8.37	0.113
23	-5.13	0.000	49	-0.45	0.000	74	4.05	0.000	99	8.55	0.113
24	-4.95	0.000	50	-0.27	0.000	75	4.23	0.000	100	8.73	0.113
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.113
26	-4.59	0.000									

********** POINT DIVERSIONS (CFS) **********

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE
1	-9.09	6.265	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	0.000	100	8.73	0.000
25	-4.77	0.000	51	-0.09	0.000	76	4.41	0.000	101	8.91	0.000
26	-4.59	0.000									

********** NONPOINT DIVERSIONS OR LOSSES (CFS) (EXCLUDING EVAPORATION) **********

ALL VALUES = 0.000E+00

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

JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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	-4.129
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 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	6.456	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	5.894	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									

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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	8.770
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	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									

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********** Red Chute Bayou TMDL 30/15 treatment 5 effluent DO **********
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********** STEADY STATE NBOD CONCENTRATIONS (PPM) **********
********** **********
********** OUTFLOW AT DOWNSTREAM END = 6.3 CFS **********
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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	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	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	JUNC NO	RIVER MILE	VALUE	JUNC NO	RIVER MILE	VALUE	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									

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Red Chute Bayou TMDL 30/15 treatment 5 effluent DO

STEADY STATE CBOD CONCENTRATIONS (PPM)

OUTFLOW AT DOWNSTREAM END = 6.3 CFS

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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	6.641
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	5.273	41	-1.89	7.488	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									

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

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********** 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	5.000
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	5.000
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	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									

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********** Red Chute Bayou TMDL 30/15 treatment 5 effluent DO **********
****
********** STEADY STATE DO CONCENTRATIONS (PPM) **********
********** **********
********** OUTFLOW AT DOWNSTREAM END = 6.3 CFS **********
****
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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	6.558	27	-4.41	6.334	52	0.09	6.016	77	4.59	5.703
2	-8.91	6.551	28	-4.23	6.323	53	0.27	6.000	78	4.77	5.718
3	-8.73	6.544	29	-4.05	6.312	54	0.45	5.985	79	4.95	5.745
4	-8.55	6.536	30	-3.87	6.301	55	0.63	5.969	80	5.13	5.786
5	-8.37	6.529	31	-3.69	6.290	56	0.81	5.952	81	5.31	5.843
6	-8.19	6.521	32	-3.51	6.279	57	0.99	5.936	82	5.49	5.901
7	-8.01	6.514	33	-3.33	6.268	58	1.17	5.919	83	5.67	5.946
8	-7.83	6.506	34	-3.15	6.256	59	1.35	5.902	84	5.85	5.980
9	-7.65	6.498	35	-2.97	6.245	60	1.53	5.884	85	6.03	6.148
10	-7.47	6.490	36	-2.79	6.233	61	1.71	5.866	86	6.21	6.121
11	-7.29	6.482	37	-2.61	6.221	62	1.89	5.848	87	6.39	6.128
12	-7.11	6.474	38	-2.43	6.209	63	2.07	5.830	88	6.57	6.203
13	-6.93	6.465	39	-2.25	6.196	64	2.25	5.811	89	6.75	6.261
14	-6.75	6.457	40	-2.07	6.184	65	2.43	5.792	90	6.93	6.290
15	-6.57	6.448	41	-1.89	6.171	66	2.61	5.772	91	7.11	6.276
16	-6.39	6.439	42	-1.71	6.158	67	2.79	5.752	92	7.29	6.236
17	-6.21	6.430	43	-1.53	6.144	68	2.97	5.731	93	7.47	6.189
18	-6.03	6.421	44	-1.35	6.131	69	3.15	5.710	94	7.65	6.133
19	-5.85	6.412	45	-1.17	6.117	70	3.33	5.688	95	7.83	6.065
20	-5.67	6.403	46	-0.99	6.104	71	3.51	5.666	96	8.01	6.062
21	-5.49	6.393	47	-0.81	6.090	72	3.69	5.643	97	8.19	5.893
22	-5.31	6.384	48	-0.63	6.075	73	3.87	5.619	98	8.37	5.669
23	-5.13	6.374	49	-0.45	6.061	74	4.05	5.627	99	8.55	5.373
24	-4.95	6.364	50	-0.27	6.046	75	4.23	5.651	100	8.73	4.975
25	-4.77	6.354	51	-0.09	6.031	76	4.41	5.700	101	8.91	4.436
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

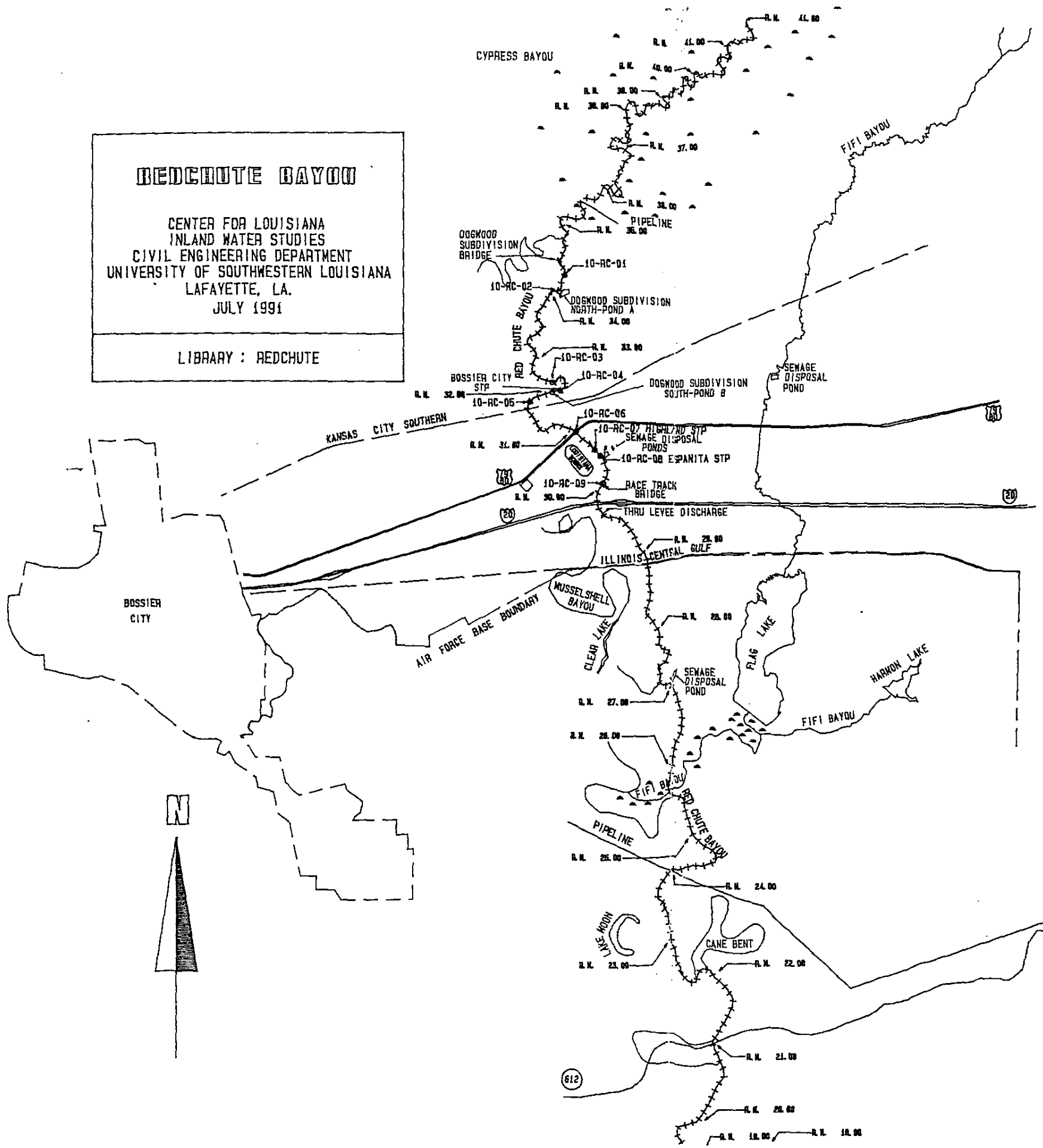
APPENDIX D

Vector Diagram of Outfall Locations

REDCHUTE BAYOU

CENTER FOR LOUISIANA
INLAND WATER STUDIES
CIVIL ENGINEERING DEPARTMENT
UNIVERSITY OF SOUTHWESTERN LOUISIANA
LAFAYETTE, LA.
JULY 1991

LIBRARY : REDCHUTE



LEGEND:

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

D2