APPENDIX A1

Maps

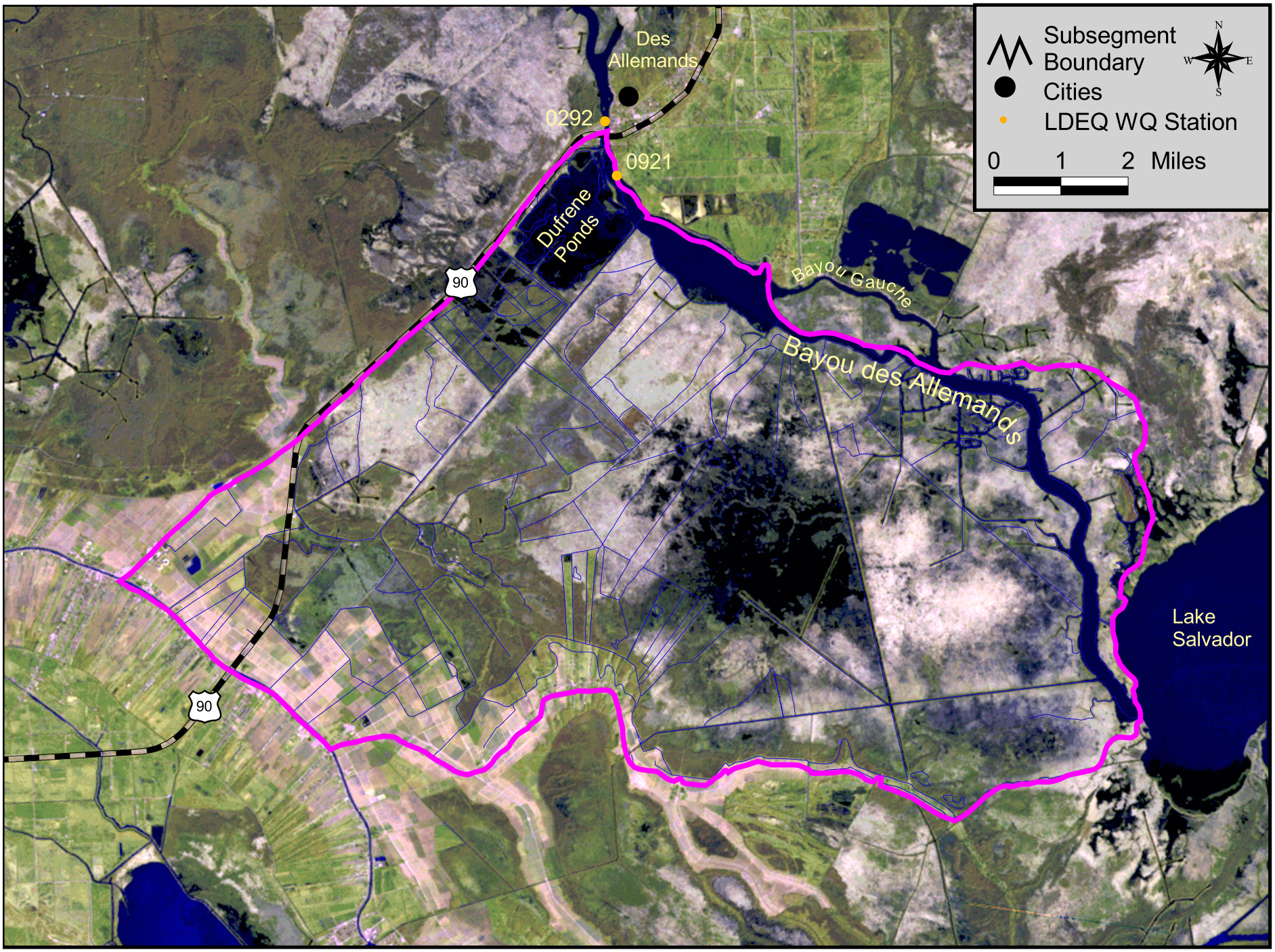
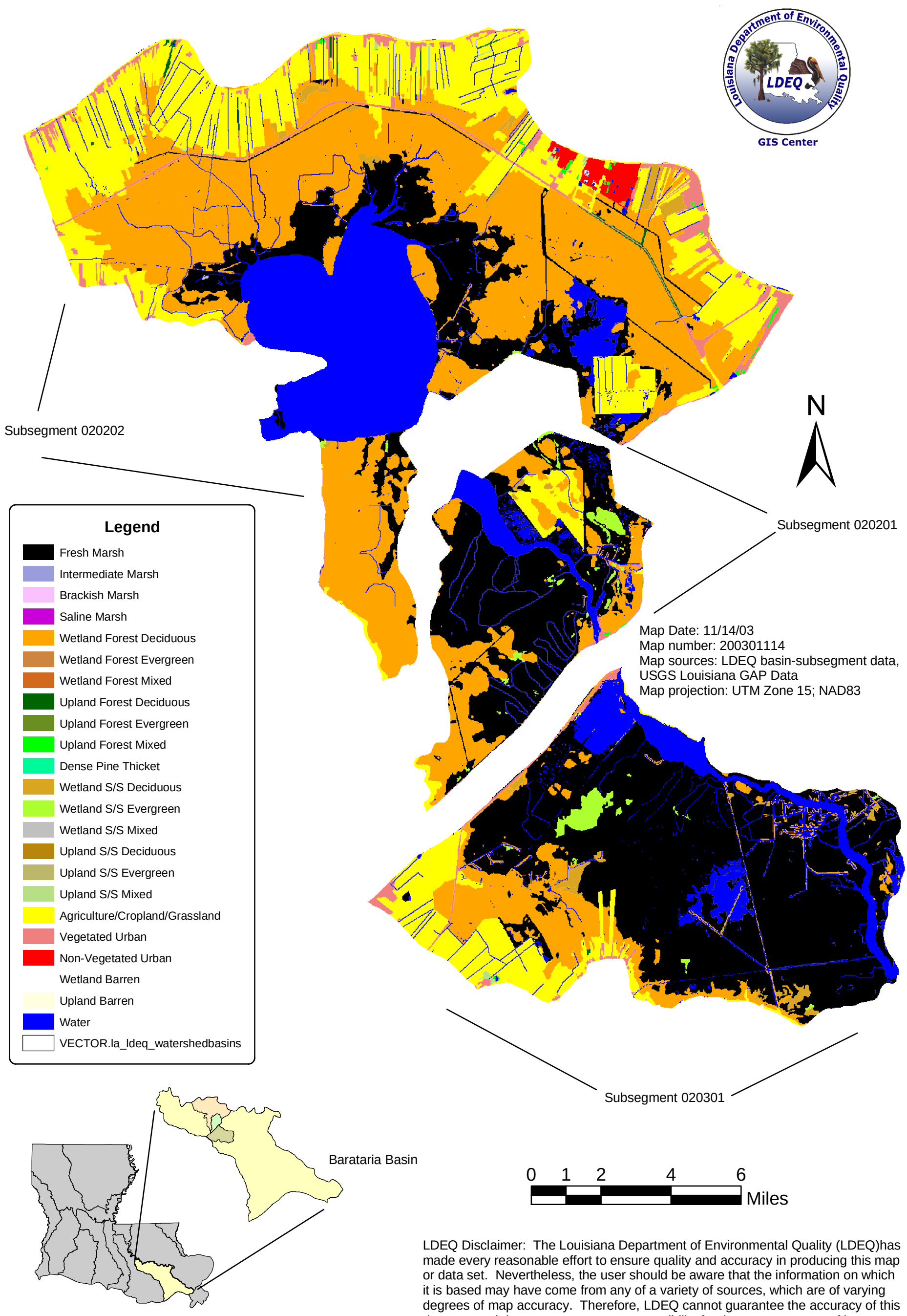


Figure A1.1. Bayou des Allemands (subsegment 020301) watershed map.

LDEQ BASIN SUBSEGMENT 020201, 020202, and 020301

USGS LOUISIANA GAP LAND COVER

BAYOU des ALLEMANDS



LDEQ Disclaimer: The Louisiana Department of Environmental Quality (LDEQ)has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this data set, and does not accept any responsibility for the consequences of its use.

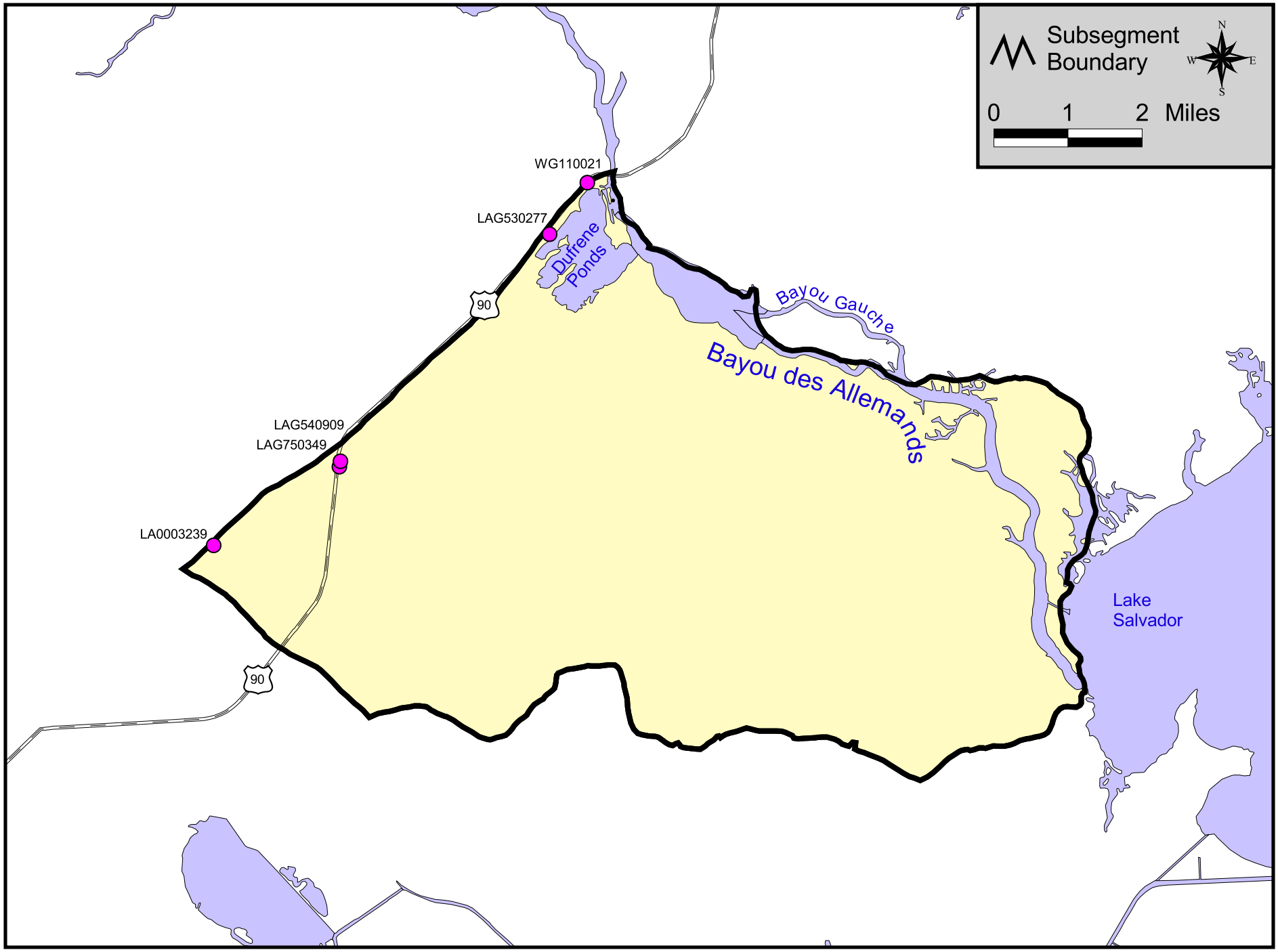


Figure A1.3. Bayou des Allemands (subsegment 020301) point source map.

APPENDIX A2

Historical DO Data

Bayou Des Allemands at Des Allemands, LA
Downloaded from LDEQ website on 1/19/04 (http://www.deq.state.la.us/surveillance/wqdata/0292wqnf.txt)

DATE	TIME	DEPTH meters	FIELD PH	WATER TEMP (C)	D.O. mg/l
---	---	---	---	---	---
12/5/00	905	1	7.35	12.10	3.73
10/31/00	850	1	6.71	24.62	4.88
10/3/00	805	1	7.36	26.21	4.08
9/12/00	935	1	6.97	28.59	2.84
8/8/00	950	1	6.85	31.07	3.16
7/11/00	925	1	7.76	32.09	2.04
6/13/00	920	1	7.65	29.16	5.29
5/9/00	951	1	8.23	27.28	7.02
4/11/00	928	1	8.47	19.64	6.51
3/14/00	1040	1	8.58	18.42	10.85
2/8/00	930	1	8.34	12.51	10.84
1/11/00	905	1	7.51	16.45	7.48
4/14/98	1000	1	7.80	21.70	7.40
2/10/98	1000	1	8.40	12.80	8.90
12/9/97	947	1	8.37	13.97	8.36
10/14/97	1045	1	7.30	24.10	5.10
8/12/97	1000	1	7.70	30.80	5.70
6/10/97	930	1	7.00	27.50	4.82
4/15/97	1040	1	8.70	15.70	10.00
2/18/97	1015	1	7.80	13.40	10.47
12/10/96	1004	1	7.30	15.10	8.60
10/15/96	1000	1	7.80	21.70	6.35
8/13/96	944	1	7.90	27.90	6.30
6/11/96	1000	1	8.30	28.00	7.07
4/9/96	1015	1	8.60	18.50	9.90
2/13/96	1000	1	7.80	13.00	9.60
12/12/95	1030	1	7.90	10.40	9.80
10/10/95	900	1	7.70	22.40	7.10
8/15/95	915	1	7.30	29.90	5.11
6/13/95	1000	1	7.20	28.60	2.50
4/4/95	1015	1	7.80	21.60	9.50
2/14/95	1000	1	8.10	13.40	11.00
12/13/94	945	1	8.10	14.00	9.50
10/11/94	1030	1	7.40	21.30	6.50
8/9/94	1015	1	7.30	30.02	4.70
6/14/94	1000	1	6.90	26.60	6.50
4/12/94	1000	1	8.10	24.20	8.00
2/8/94	1000	1	7.10	17.80	8.17
12/14/93	1030	1	7.20	14.00	8.06
10/12/93	1015	1	7.70	23.70	7.60
8/10/93	1000	1	7.90	30.30	6.51
6/15/93	1000	1	7.40	30.80	5.10
4/13/93	1000	1	6.80	21.50	7.80

DATE	TIME	DEPTH meters	FIELD PH	WATER TEMP (C)	D.O. mg/l
12/15/92	945	1	7.20	15.10	8.00
10/13/92	855	1	6.80	22.10	7.70
8/11/92	1015	1	6.80	30.40	3.20
6/16/92	1030	1	9.00	30.40	9.20
4/7/92	1010	1	6.60	17.70	8.30
2/11/92	1000	1	6.70	12.20	9.60
12/10/91	1005	1	7.10	15.80	8.60
10/15/91	955	1	7.80	23.50	6.60
8/13/91	900	1	8.30	29.20	6.50
6/11/91	1000	1	7.30	26.20	6.20
4/16/91	915	1	7.20	24.40	6.70
2/5/91	1000	1	6.90	15.70	8.40

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APPENDIX B1

Field Collection Sites

BARATARIA BASIN SUBSEGMENTS 020201, 020301
BAYOU DES ALLEMANDS

MAP 1

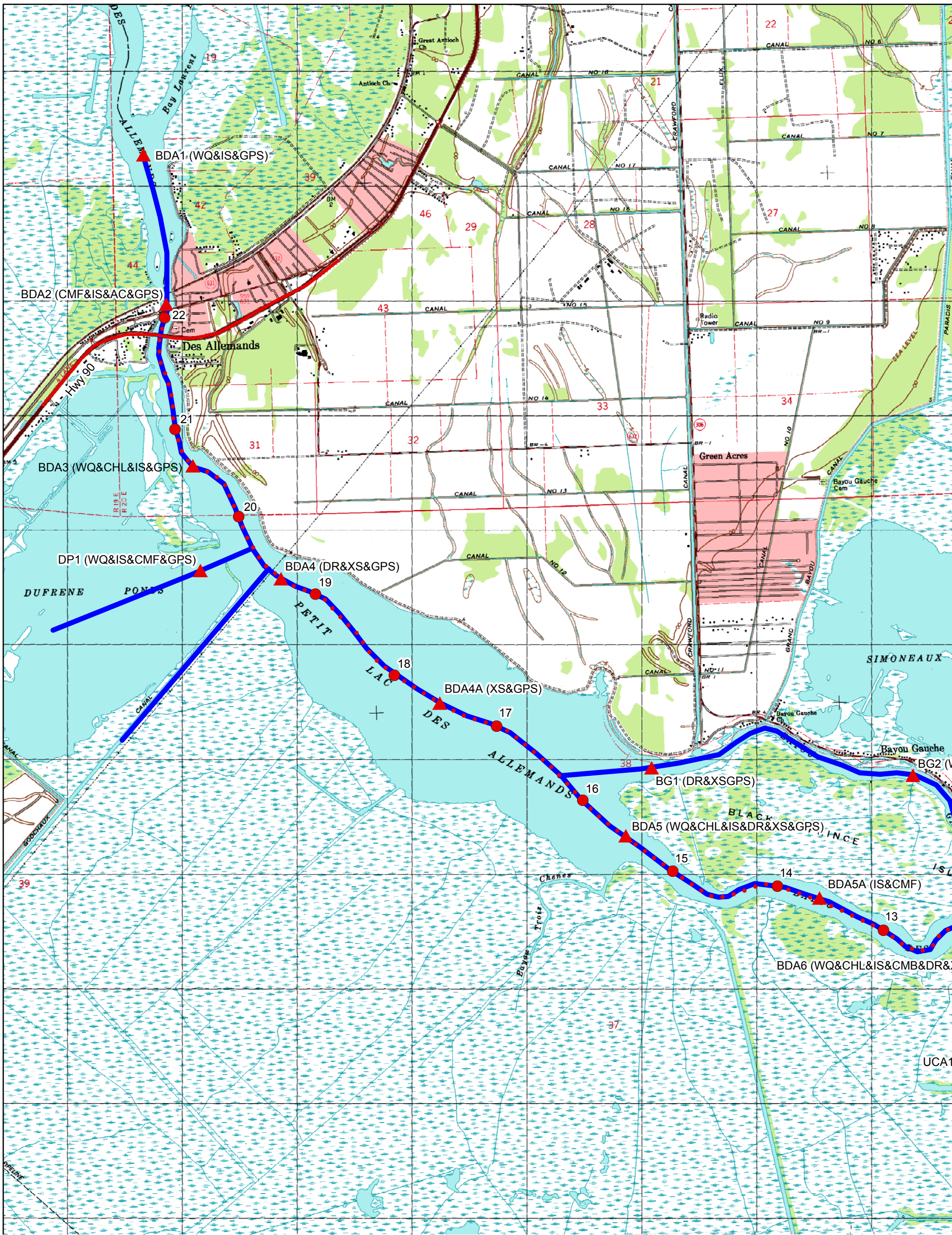
Environmental Technology Division
Engineering Group 2
Map Number: 200203023
Map Date: 12-19-02
Map Projection: UTM Zone 15, NAD83
Map Source: Digitized from USGS 7.5' topo maps

The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any responsibility for the consequences of its use.

1 0.5 0 1 2 3 Kilometers

Scale 1:31,000

N



BARATARIA BASIN SUBSEGMENTS 020201, 020301
BAYOU DES ALLEMANDS

MAP 2

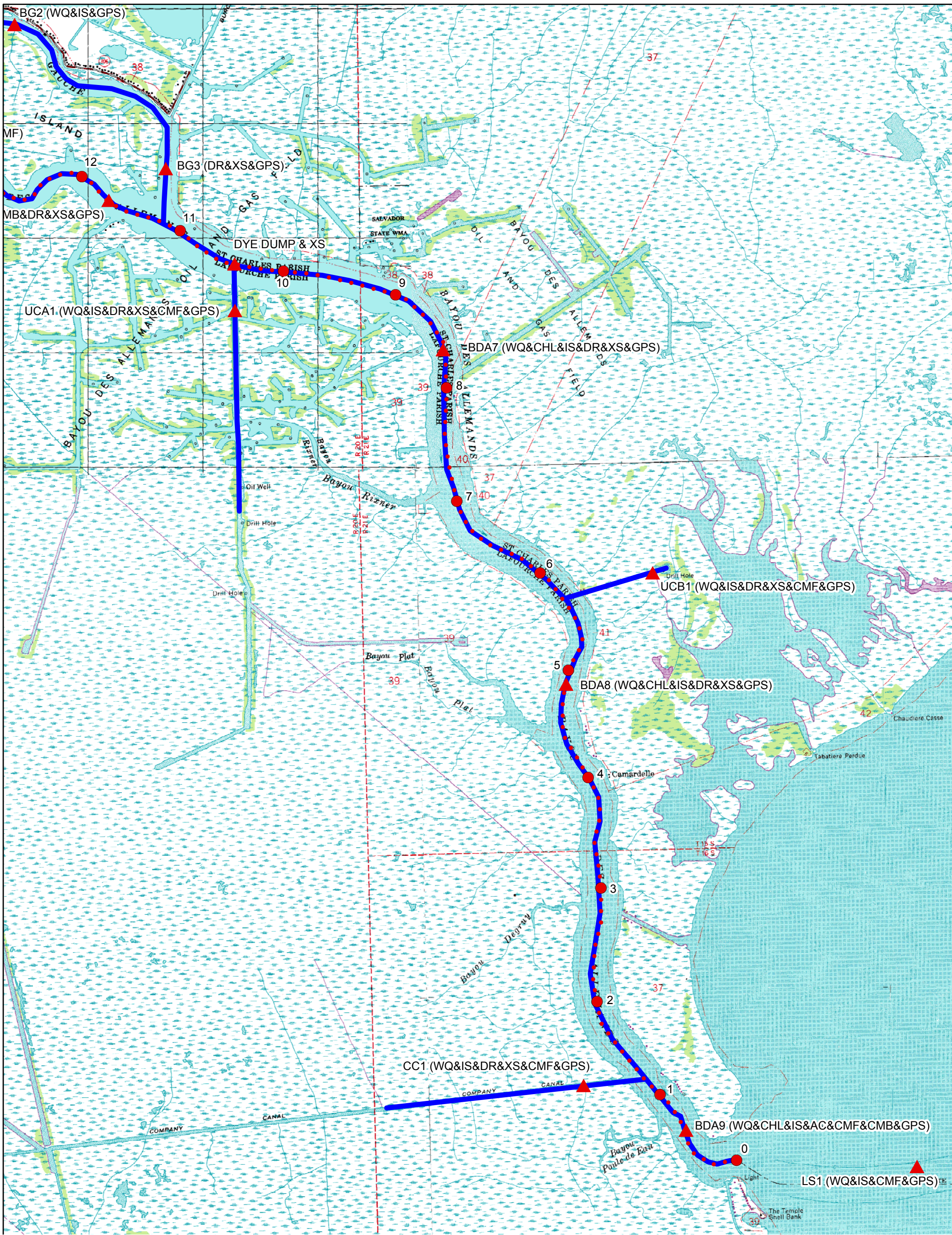
Environmental Technology Division
Engineering Group 2
Map Number: 200203023
Map Date: 12-19-02
Map Projection: UTM Zone 15, NAD83
Map Source: Digitized from USGS 7.5' topo maps

The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any responsibility for the consequences of its use.

1 0.5 0 1 2 3 Kilometers

Scale 1:31,000

N



DESCRIPTIONS OF BAYOU DES ALLEMANDS FIELD DATA COLLECTION SITES (Subsegment 020301)

Station Name	**Station Location**	**Purpose for Modeling**	**Data that were collected:**				
			In Situ	**Lab**	**Velocity or flow**	**Contin. monitor**	**Cross section**
BDA-1	Bayou des Allemands: about 1.0-1.1 miles upstream of Hwy 90	Boundary at NW end	X	X	ADCP		
BDA-2	Bayou des Allemands: at Hwy 90 Bridge	Calibration target	X			X	
BDA-3	Bayou des Allemands: about 0.7-0.8 miles downstream of Hwy 90	Calibration target	X	X			
BDA-4	Bayou des Allemands: about 0.1 miles downstream of Godchaux Canal	Depth and width			Drogue		X
BDA-4A	Bayou des Allemands: Midway between BDA-4 and BDA-5	Depth and width					X
BDA-5	Bayou des Allemands: about 0.3 miles downstream of NW end of Bayou Gauche	Calibration target	X	X	Drogue		X
BDA-5A	Bayou des Allemands: About 1.0-1.5 miles downstream of NW end of Bayou Gauche	Calibration target	X			X	
BDA-6	Bayou des Allemands: about 0.3 miles upstream of SE end of Bayou Gauche	Calibration target	X	X	Drogue	X	X
BDA-7	Bayou des Allemands: about 1.7 miles downstream of SE end of Bayou Gauche	Calibration target	X	X	Drogue		X
BDA-8	Bayou des Allemands: about 0.5 miles downstream of Unnamed Canal B	Calibration target	X	X	Drogue		X
BDA-9	Bayou des Allemands: Midway between Company Canal and Lake Salvador	Calibration target	X	X	ADCP	X	
DP-1	Dufrene Ponds: about 0.3 miles SE of opening to Bayou des Allemands	Inflow or outflow boundary	X	X		X	
BG-1	Bayou Gauche: about 0.2 miles from NW end	Inflow or outflow boundary			Drogue		X

Station Name	Station Location	Purpose for Modeling	Data that were collected:				
			In Situ	Lab	Velocity or flow	Contin. monitor	Cross section
BG-2	Bayou Gauche: about midway between NW and SE ends	Inflow or outflow boundary	X	X			
BG-3	Bayou Gauche: about 0.2 miles from SE end	Inflow or outflow boundary					
UCA-1	Unnamed Canal A: about 0.2 miles S of opening to Bayou des Allemands	Inflow or outflow boundary	X	X	Drogue	X	X
UCB-1	Unnamed Canal B: about 0.3 miles E of opening to Bayou des Allemands	Inflow or outflow boundary	X	X	Drogue	X	X
CC-1	Company Canal: about 0.3 miles W of openning to Bayou des Allemands	Inflow or outflow boundary	X	X	Drogue	X	X
LS-1	Lake Salvador: about 1.0 mile E of mouth of Bayou des Allemands	Boundary at SE end	X	X		X	

NOTES: ADCP = flow measurement with Acoustic Doppler Current Profiler
Continuous monitor at LS-1 was damaged by a boat and data could not be retrieved.

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APPENDIX B2

Water Quality Sampling Data

Table B2.1. Summary of Sampling and In Situ Data for Bayou Des Allemands (Subsegment 020301).

Site	Lab ID	Date	Time	Sampling Depth (m)	Temp. (ºC)	DO (mg/L)	DO (% sat)	Conduc. (umhos /cm)	Salinity (ppt)	pH (su)	TDS (ppm)	Chloride (ppm)	Chloro-phyll a, calc. (ug/L)	Total Phos. (ppm)	Ammonia Nitrogen (ppm)	TKN (ppm)	NO2 + NO3 (ppm)	TOC (ppm)
BDA1	TRG	9/11/2002	8:15	1	28.39	5.39	70.4	1210	0.64	7.01	662	308	ND	0.12	0.17	1.32	0.24	13.7
BDA1 Dupli	FD	9/11/2002	8:15	1	28.39	5.67	74	1211	0.64	7.01	698	314	ND	0.12	ND	1.32	0.24	12.1
BDA2	TRG	9/11/2002	9:30	1	28.67	5.28	69.5	1235	0.65	7.00								
BDA3	TRG	9/11/2002	9:30	1	28.43	6.27	72.6	1263	0.67	6.93	668	325	3	0.1	0.12	1.29	0.24	12.4
BDA5	TRG	9/11/2002	10:40	1	28.33	6.76	88.7	1351	0.71	7.15	722	348	4.5	0.11	ND	1.04	0.21	11.3
BDA5A	TRG	9/11/2002	11:50	1	28.45	5.64	70.9	1345	0.71	6.99								
BDA6	TRG	9/11/2002	10:50	1	28.42	6.45	82.6	1334	0.71	7.03	738	343	16.4	0.11	ND	1.03	0.2	12.1
BDA7	TRG	9/11/2002	12:05	1	28.56	6.37	79.8	1395	0.74	6.91	768	359	4.6	0.1	ND	1.09	0.19	11.6
BDA8	TRG	9/11/2002	10:35	1	28.09	6.25	81.3	1362	0.72	6.76	748	361	4.6	0.09	ND	0.87	0.19	10.2
BDA9	TRG	9/11/2002	9:00	1	28.04	9.94	99.8	1485	0.78	7.13	828	392	8.7	0.09	ND	0.77	0.15	10.1
DP1	TRG	9/11/2002	10:00	1	27.89	6.77	84	1005	0.53	7.55	586	260		0.13	ND	1.13	0.1	14.1
BG2	TRG	9/11/2002	9:30	1	27.88	5.73	73	1341	0.71	6.84	732	345		0.13	ND	0.87	0.2	12.1
BG2 Duplic	FD	9/11/2002	9:30	1	27.88	5.73	73	1341	0.71	6.84	744	347		0.13	ND	1.21	0.2	12.8
UCA1	TRG	9/11/2002	11:25	1	28.58	7.53	94.6	1145	0.6	6.86	660	315		0.21	ND	1.31	0.09	13.1
UCB1	TRG	9/11/2002	11:35	1	27.87	2.97	89.9	1289	0.69	6.41	764	360		0.1	0.11	1.05	0.08	13.9
CC1	TRG	9/11/2002	9:35	1	28.2	4.91	66.1	1274	0.67	6.67	724	334		0.1	0.11	0.89	0.13	11.8
LS1	TRG	9/11/2002	8:35	1	27.66	7.13	91.3	1325	0.7	7.19	790	345		0.1	ND	0.83	0.19	10.7

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Table B2.2. Comparison of survey data and historical data for Bayou des Allemands.

parameter	LDEQ Station 0292 July-Sept			BDA3 Sept 11,2002
TEMP	27.90	-	32.09	28.43
DO	2.04	-	6.51	6.27
NO2+NO3	0.01	-	0.15	0.24
TKN	0.50	-	3.32	1.29
TP	0.04	-	0.42	0.1
TOC	8	-	16.2	12.4

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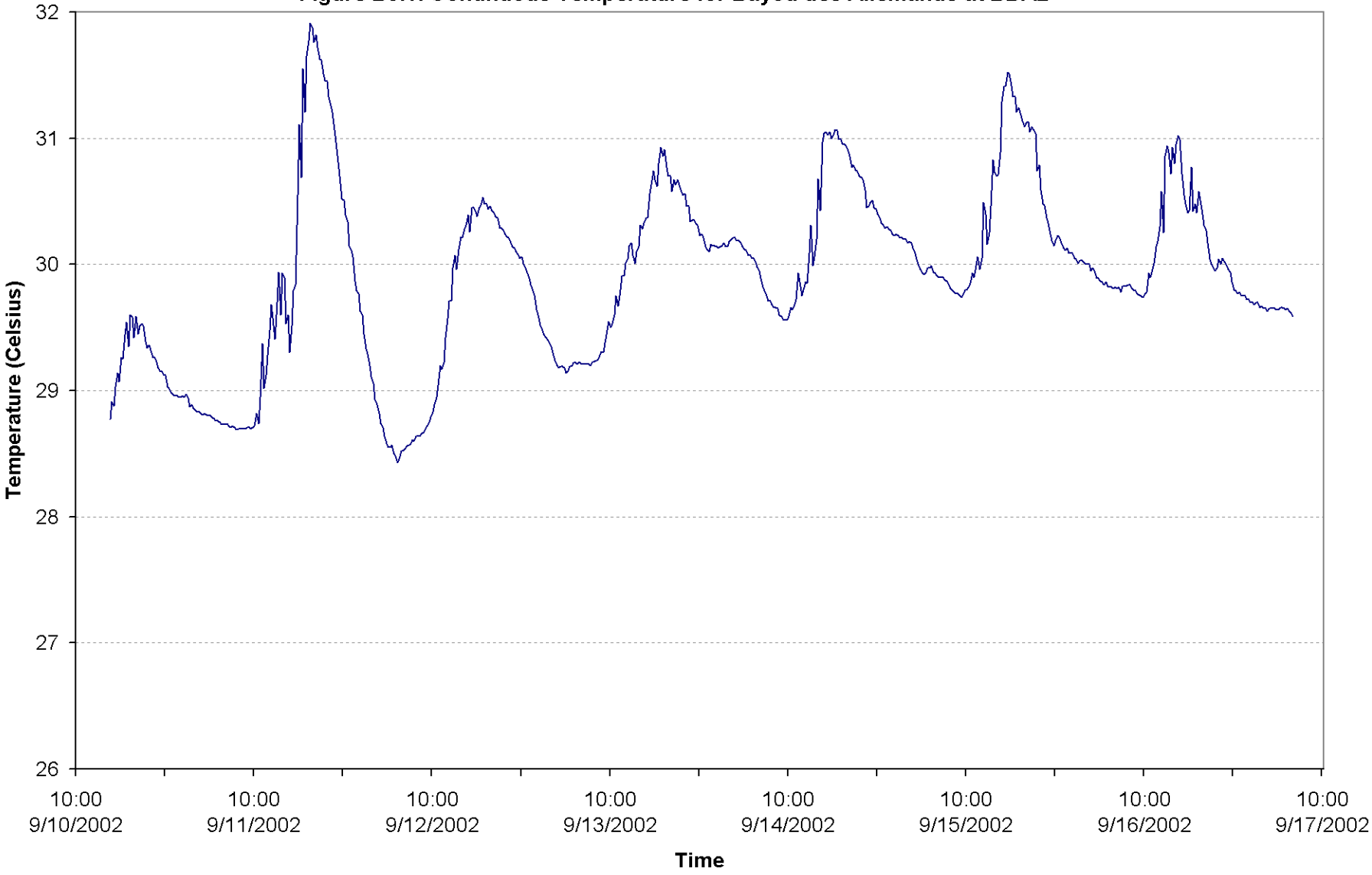
APPENDIX B3

Plots of Continuous In Situ Data

Figure B3.1. Continuous Temperature for Bayou des Allemands at BDA2



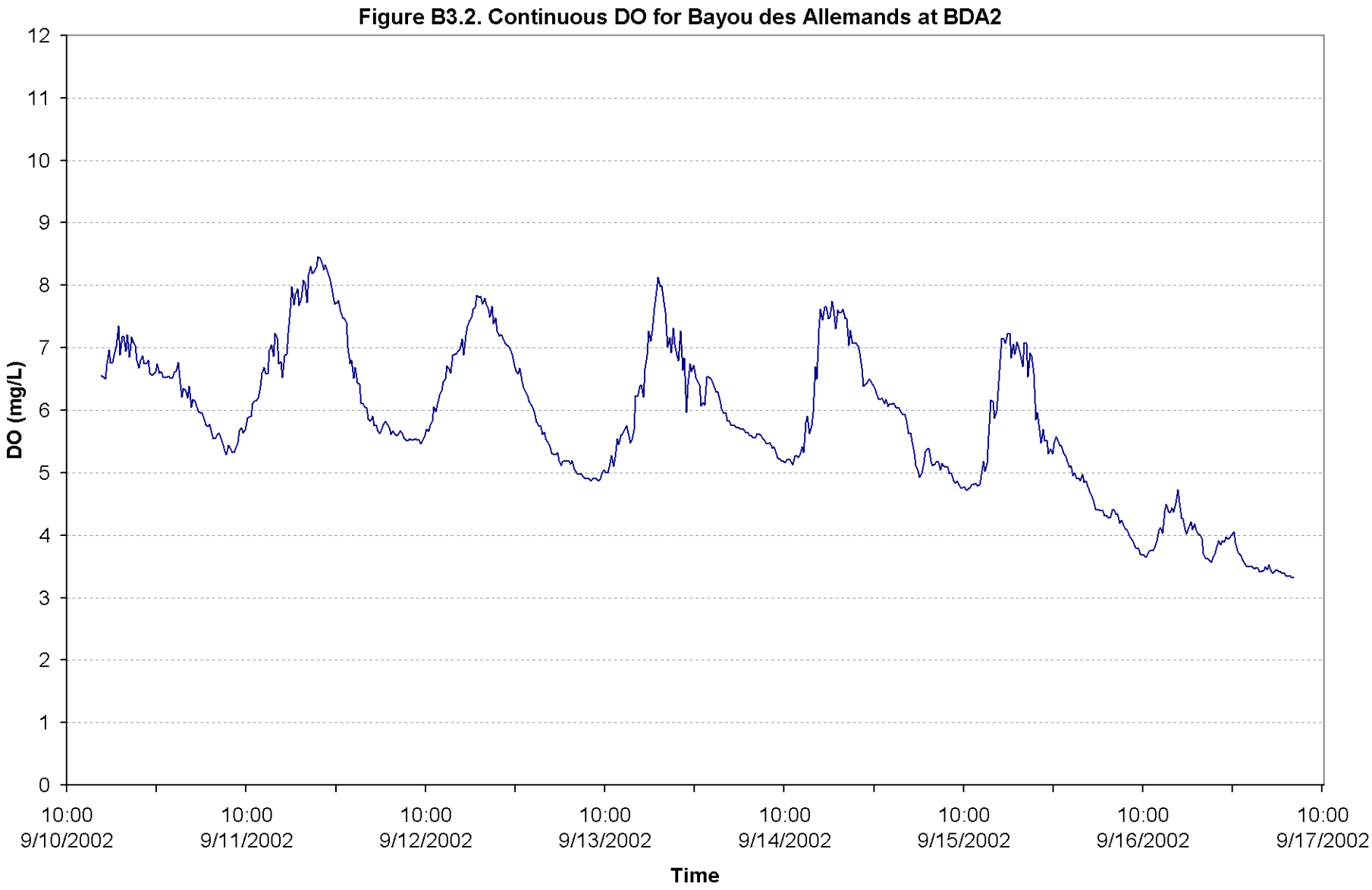


Figure B3.2. Continuous DO for Bayou des Allemands at BDA2
DO (mg/L)
12
11
10
9
8
7
6
5
4
3
2
1
0
10:00 9/10/2002
10:00 9/11/2002
10:00 9/12/2002
10:00 9/13/2002
10:00 9/14/2002
10:00 9/15/2002
10:00 9/16/2002
10:00 9/17/2002
Time

Figure B3.3. Continuous DO Percent Saturation for Bayou des Allemands at BDA2

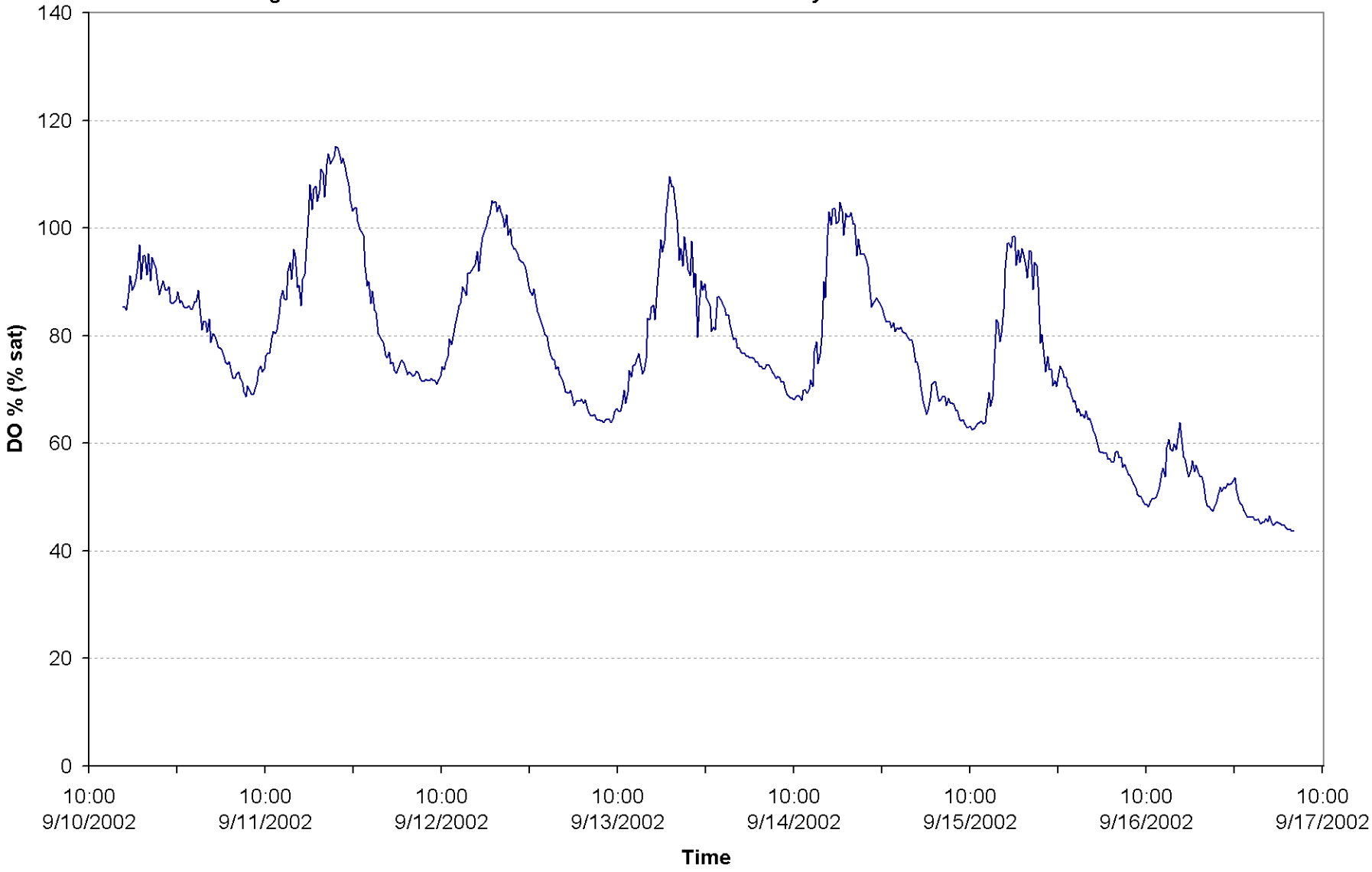
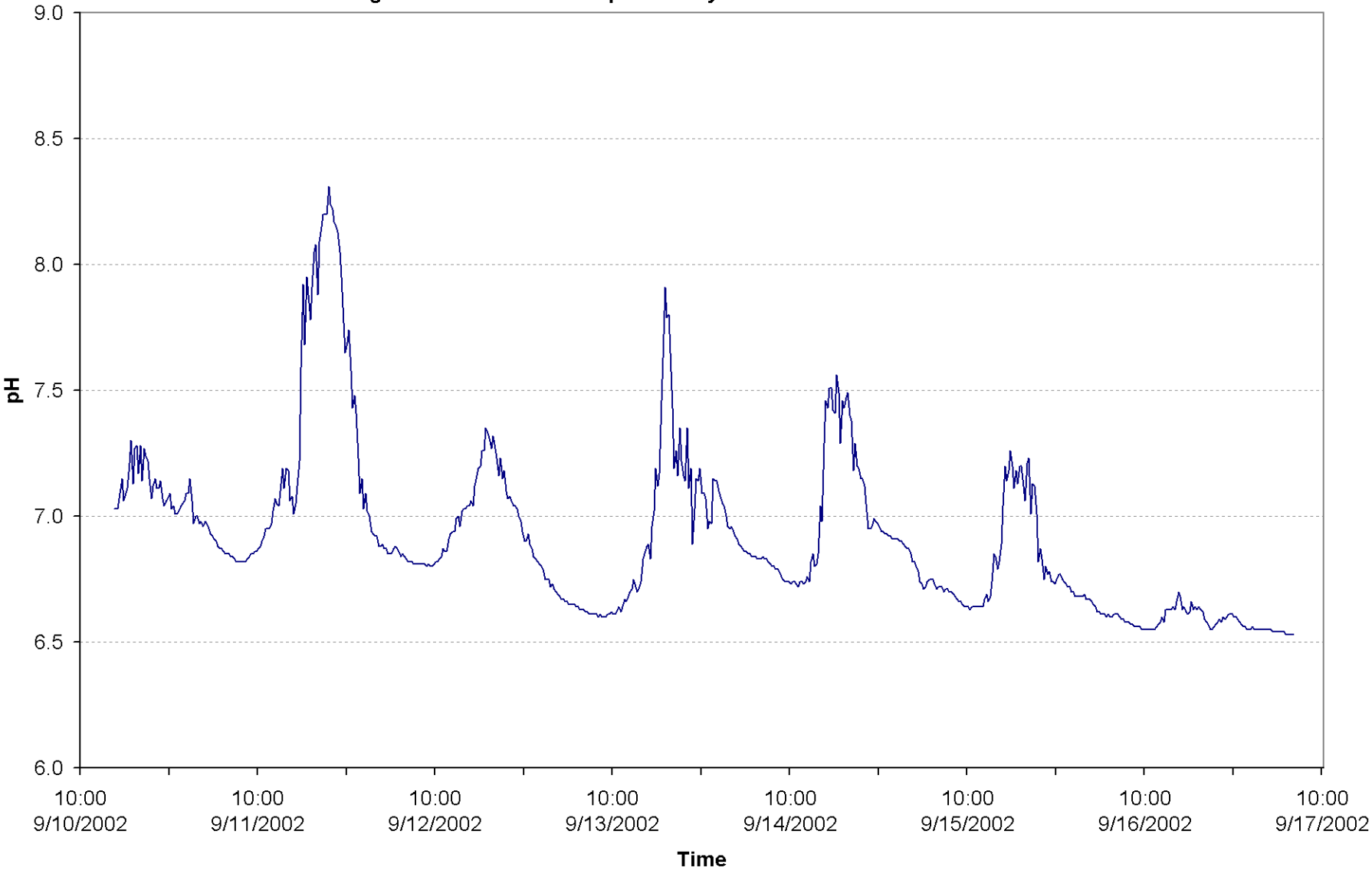


Figure B3.4. Continuous pH for Bayou des Allemands at BDA2



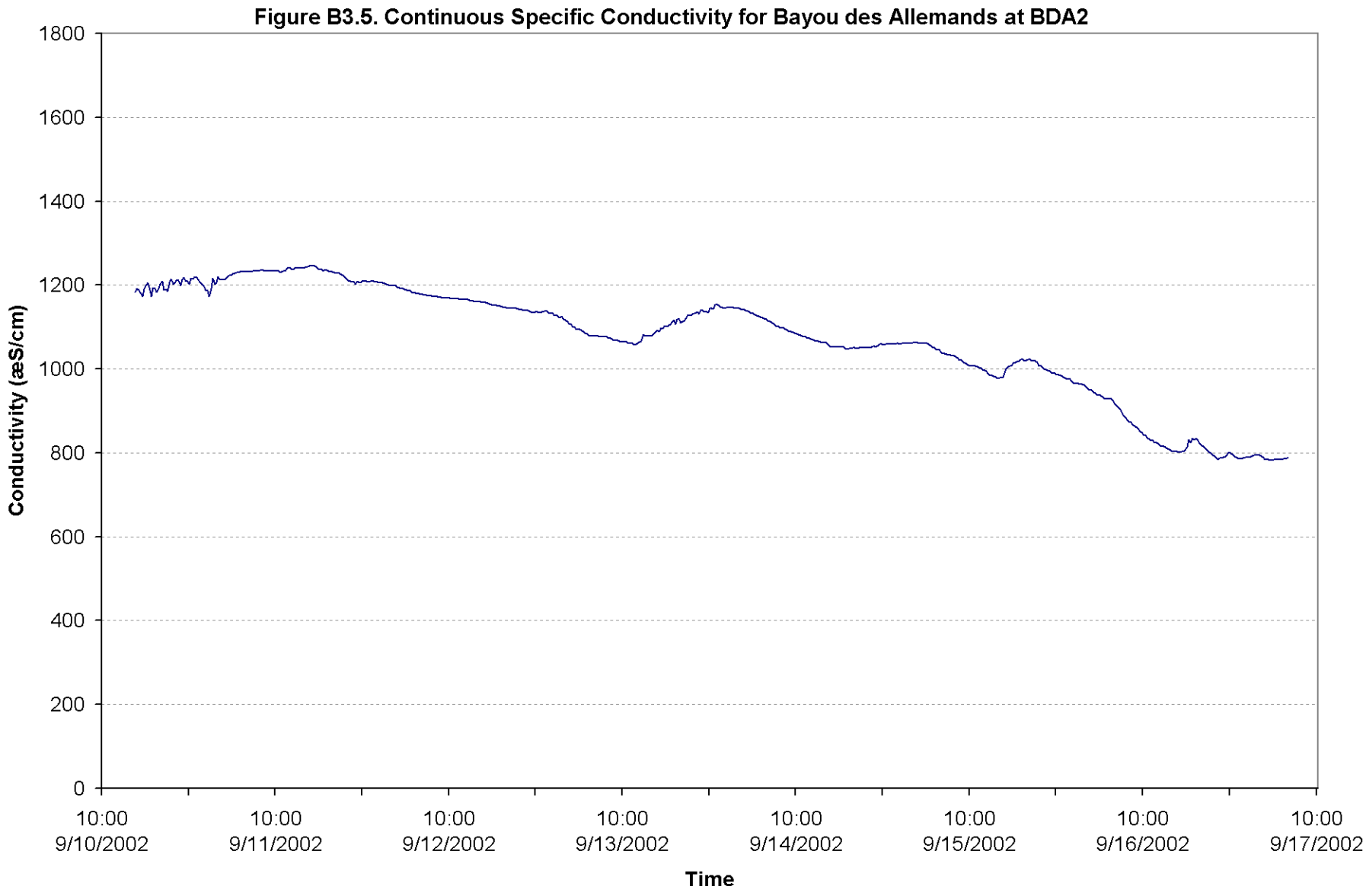


Figure B3.5. Continuous Specific Conductivity for Bayou des Allemands at BDA2
Conductivity (æS/cm)
1800
1600
1400
1200
1000
800
600
400
200
0
10:00 9/10/2002
10:00 9/11/2002
10:00 9/12/2002
10:00 9/13/2002
10:00 9/14/2002
10:00 9/15/2002
10:00 9/16/2002
10:00 9/17/2002
Time

Figure B3.6. Continuous Salinity for Bayou des Allemands at BDA2

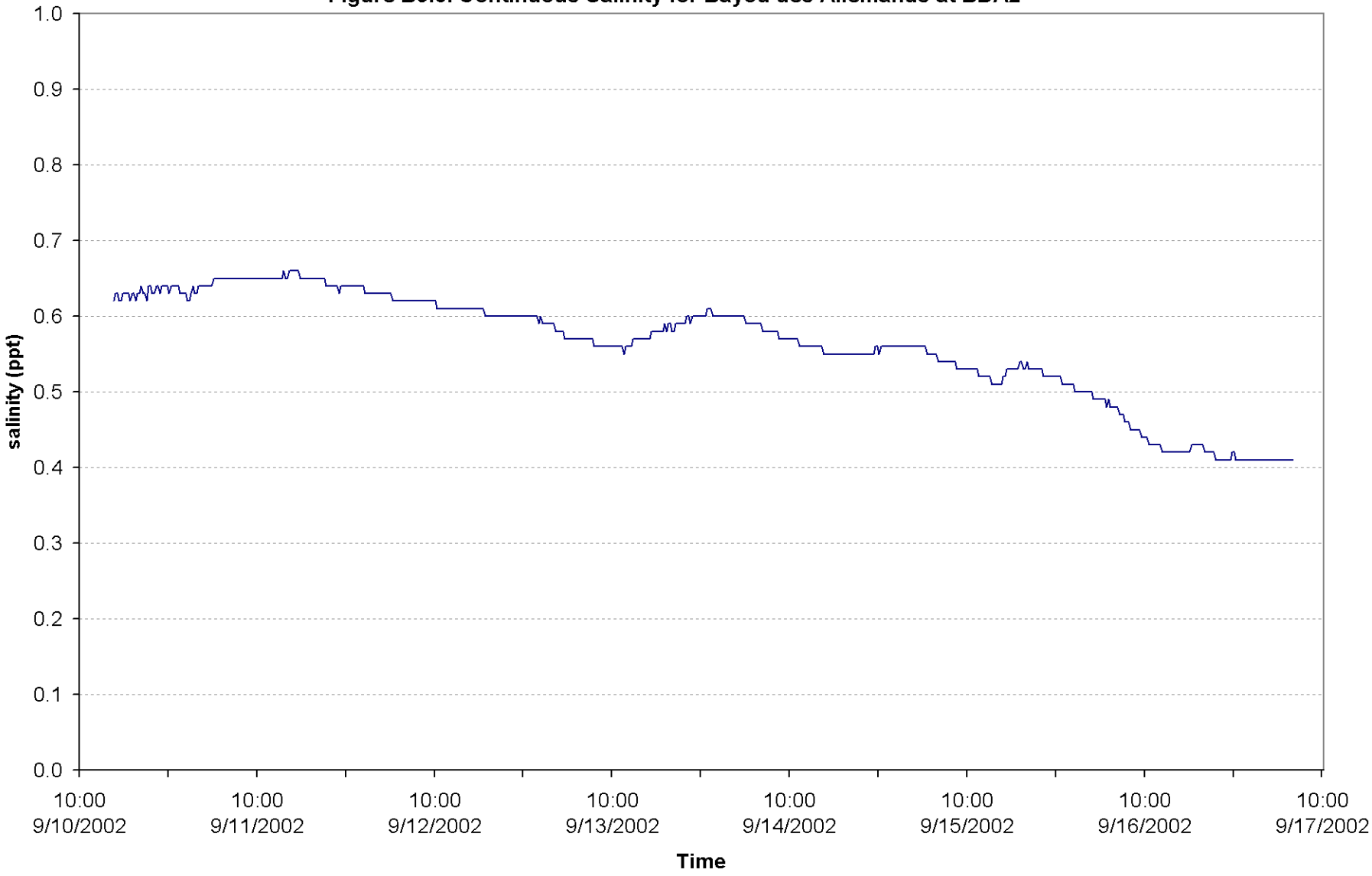


Figure B3.7. Continuous Water Level for Bayou des Allemands at BDA2

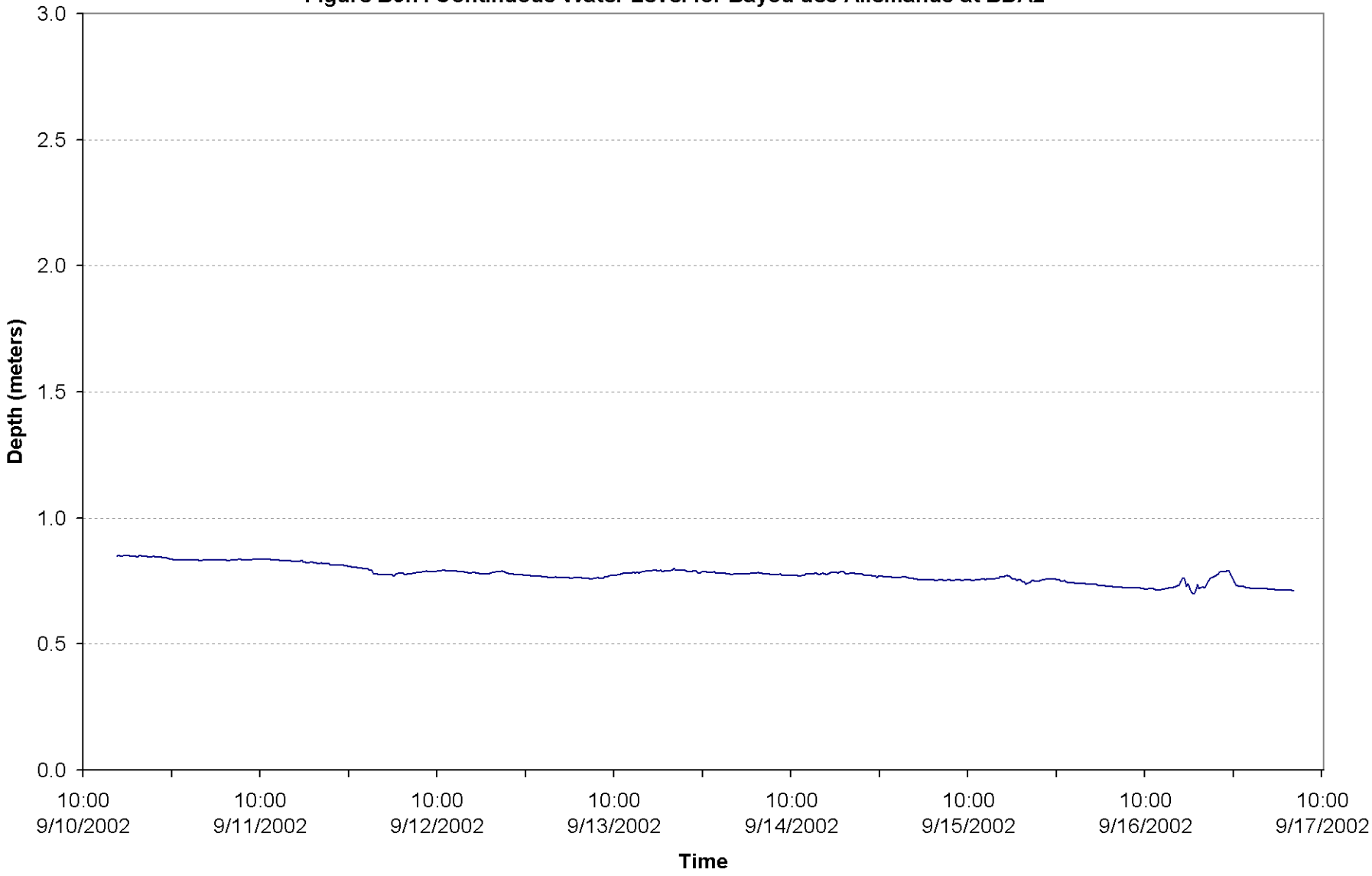


Figure B3.8. Continuous Temperature for Bayou des Allemands at BDA5A

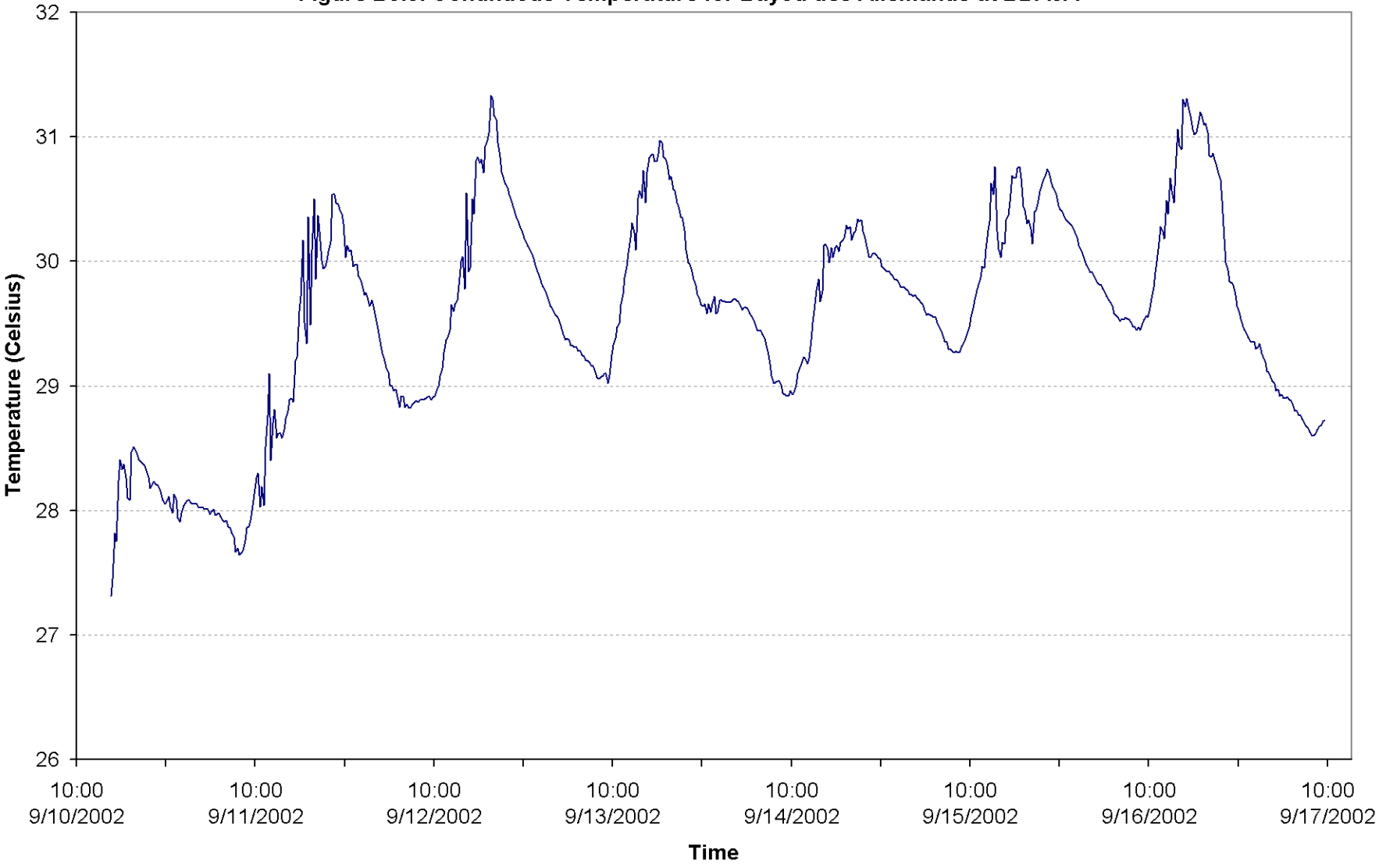


Figure B3.9. Continuous DO for Bayou des Allemands at BDA5A

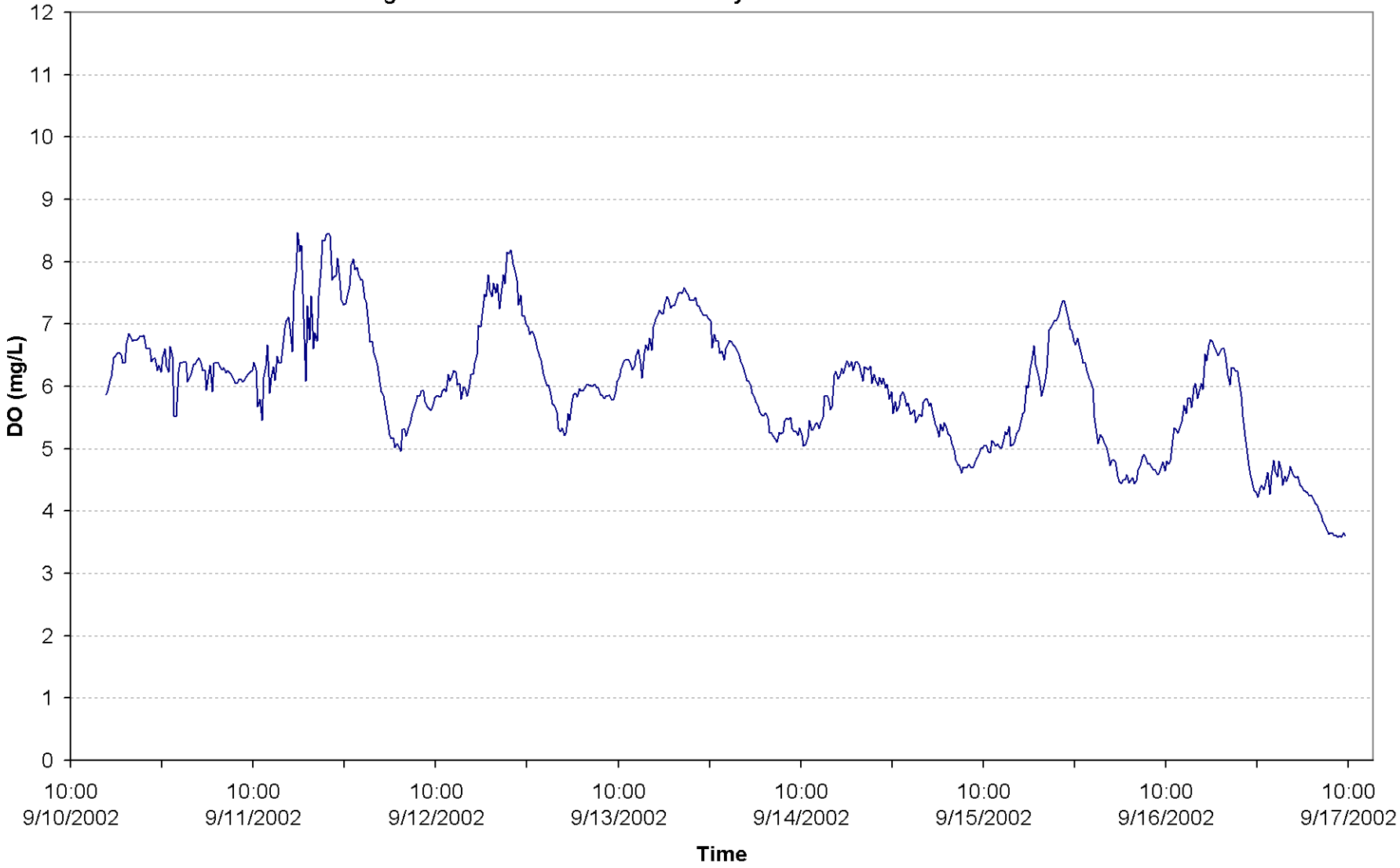


Figure B3.10. Continuous DO Percent Saturation for Bayou des Allemands at BDA5A

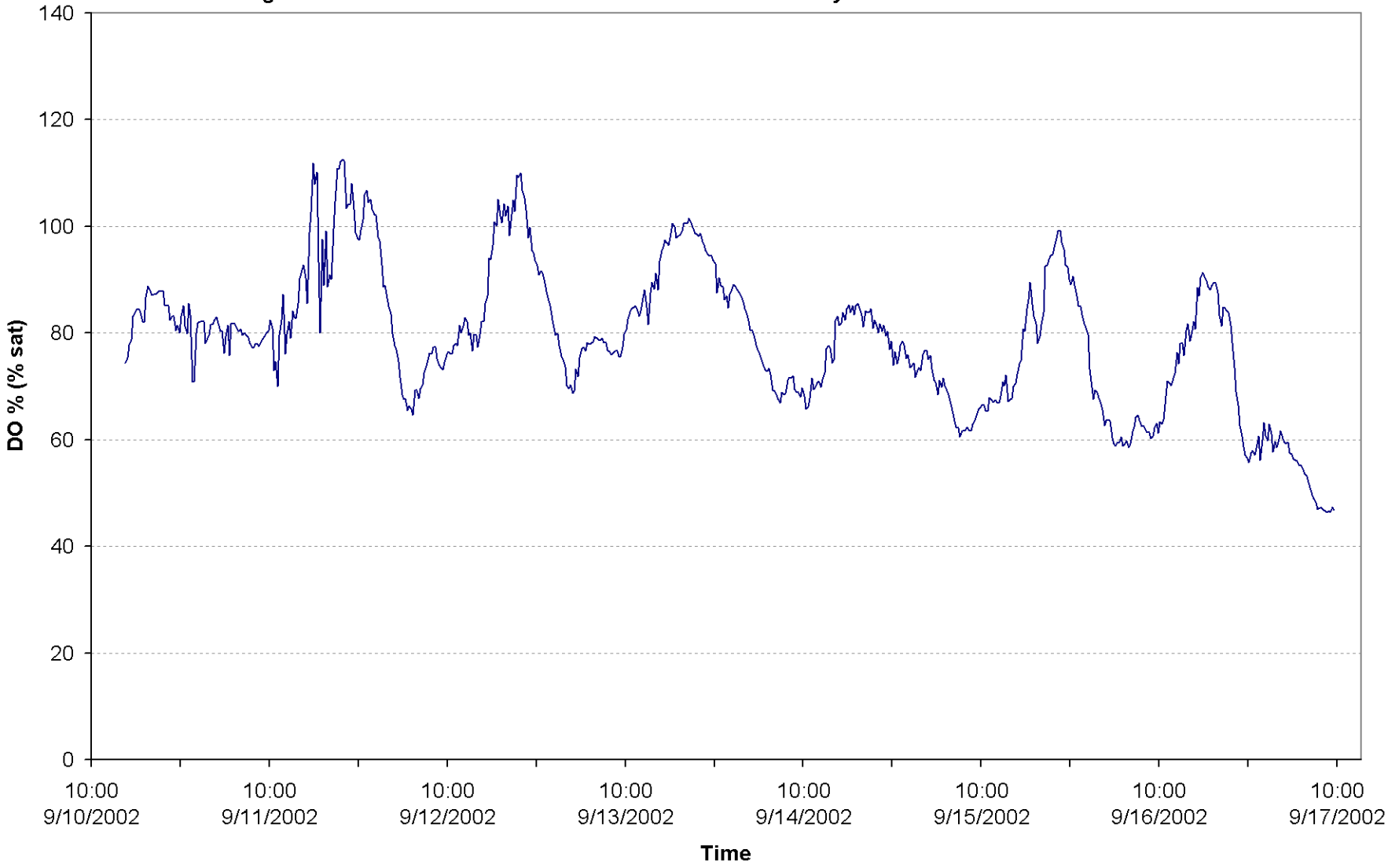


Figure B3.11. Continuous pH for Bayou des Allemands at BDA5A

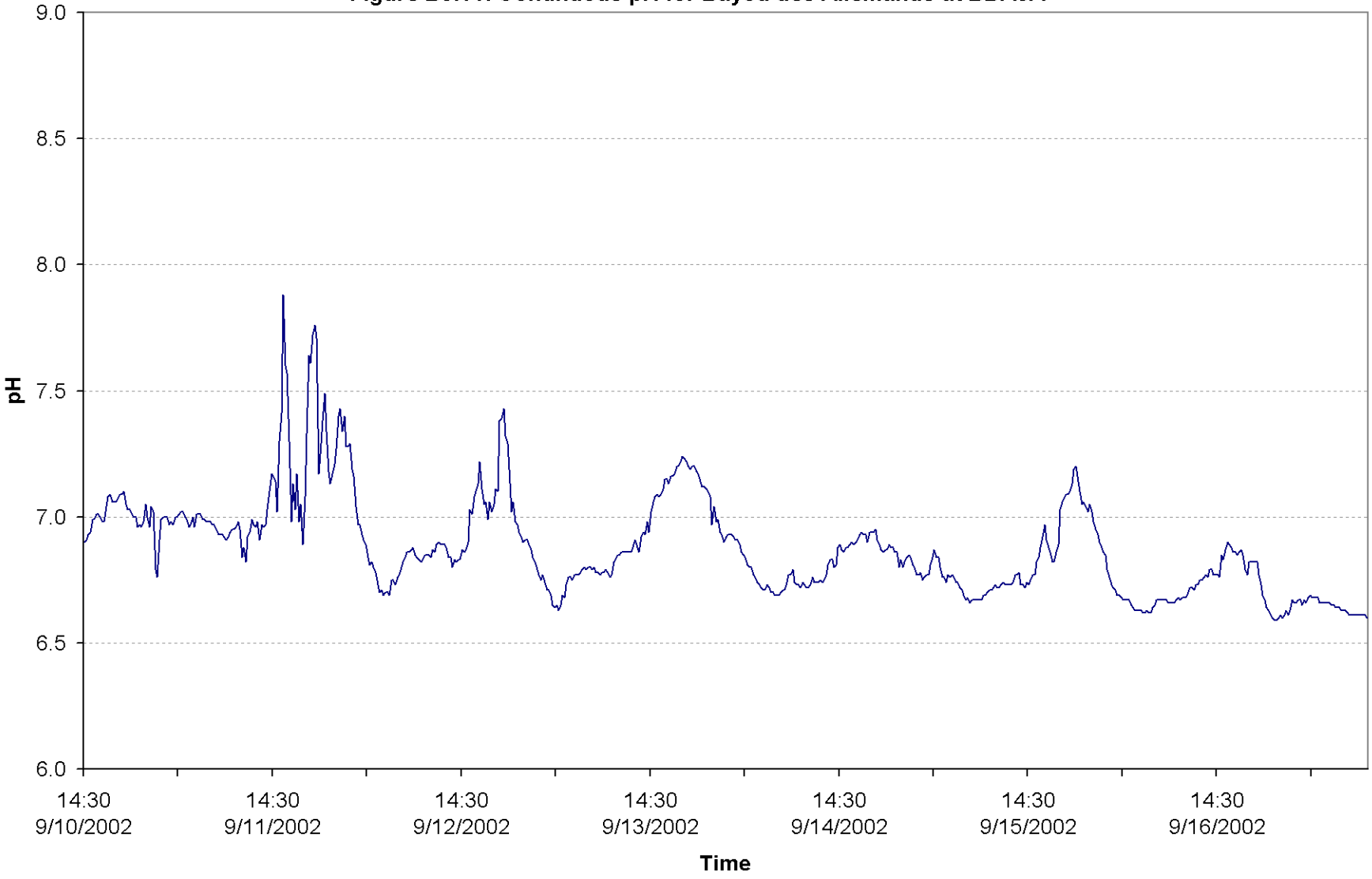


Figure B3.12. Continuous Specific Conductivity for Bayou des Allemands at BDA5A

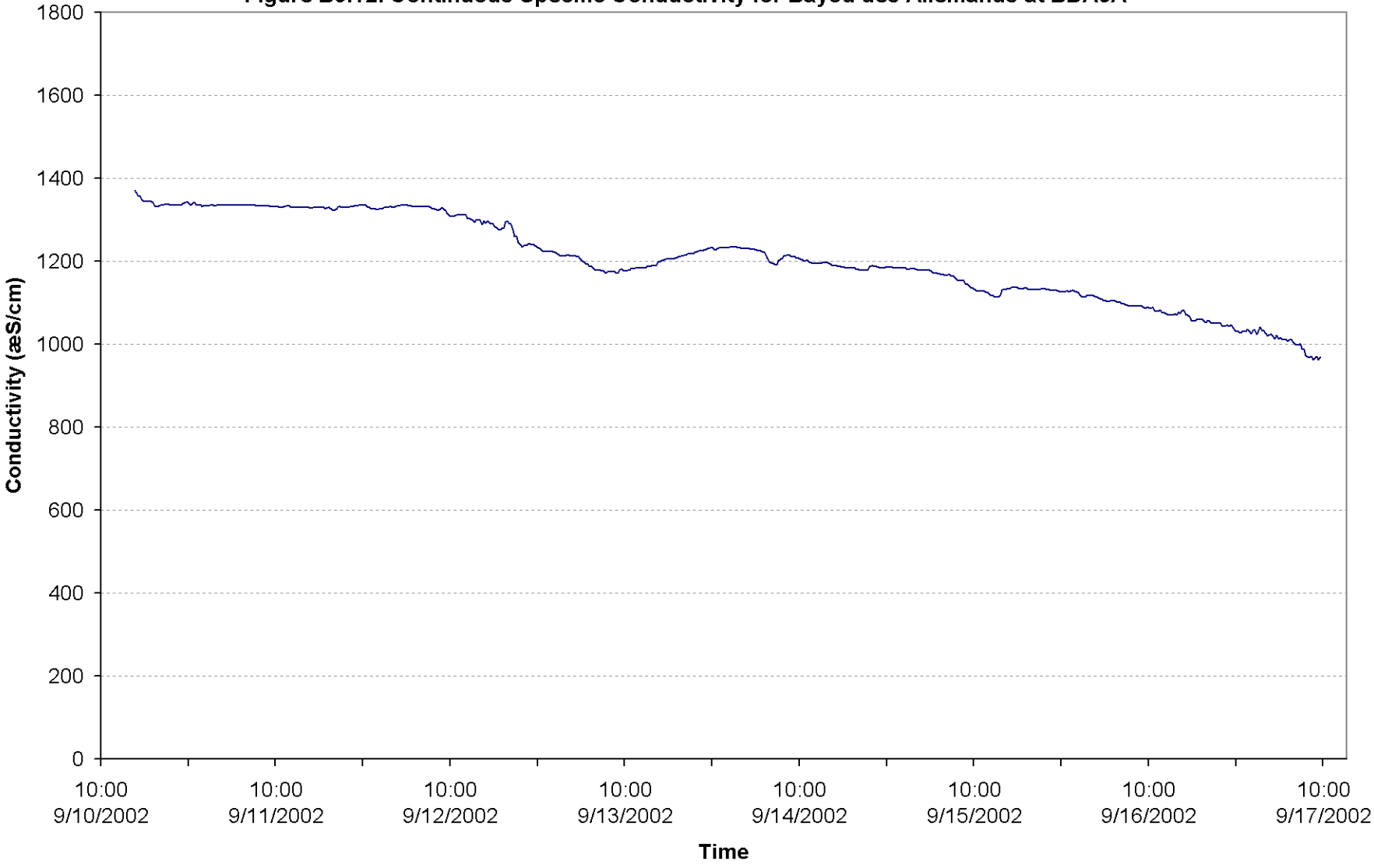


Figure B3.13. Continuous Specific Conductivity for Bayou des Allemands at BDA5A

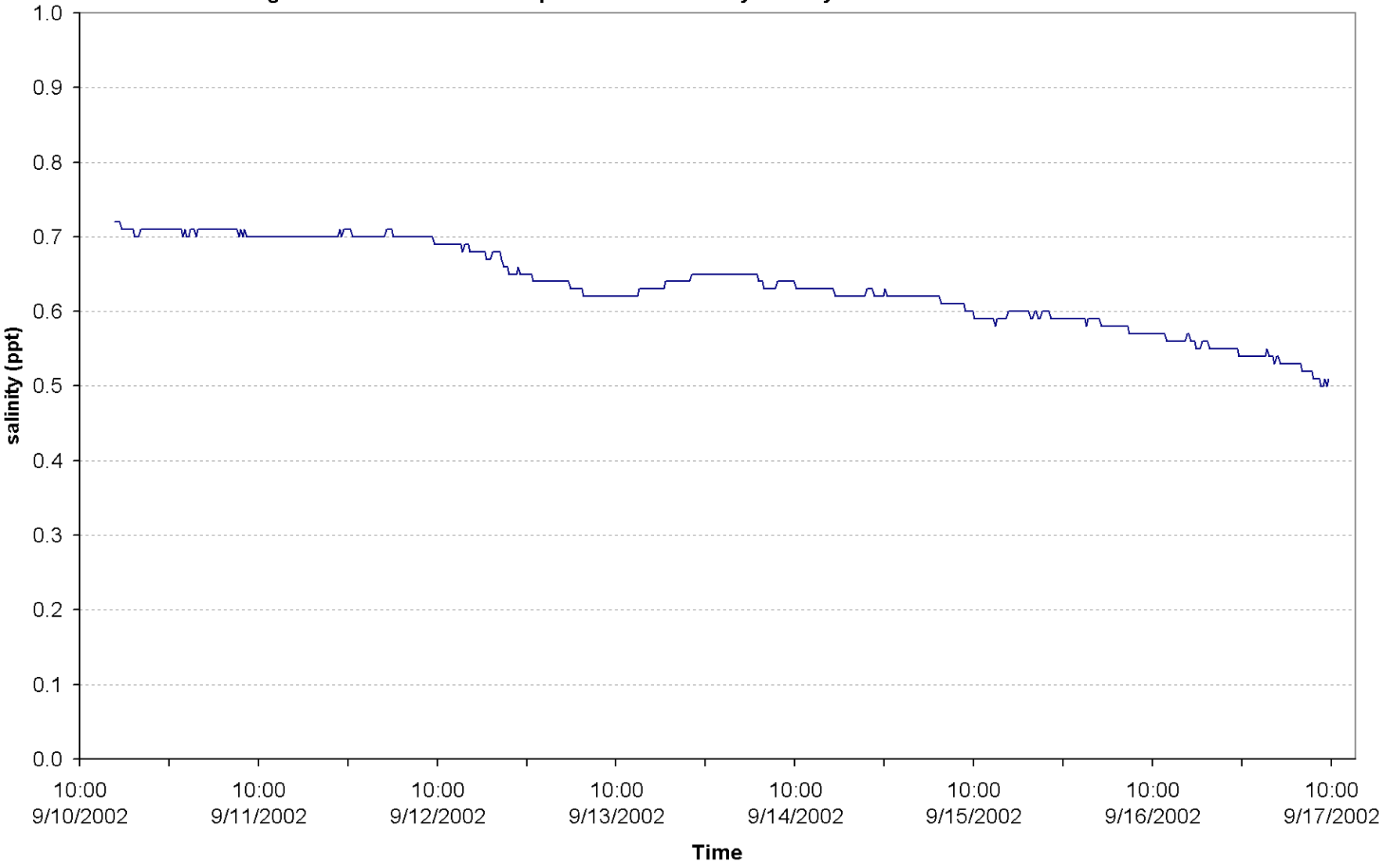


Figure B3.14. Continuous Water Level for Bayou des Allemands at BDA5A

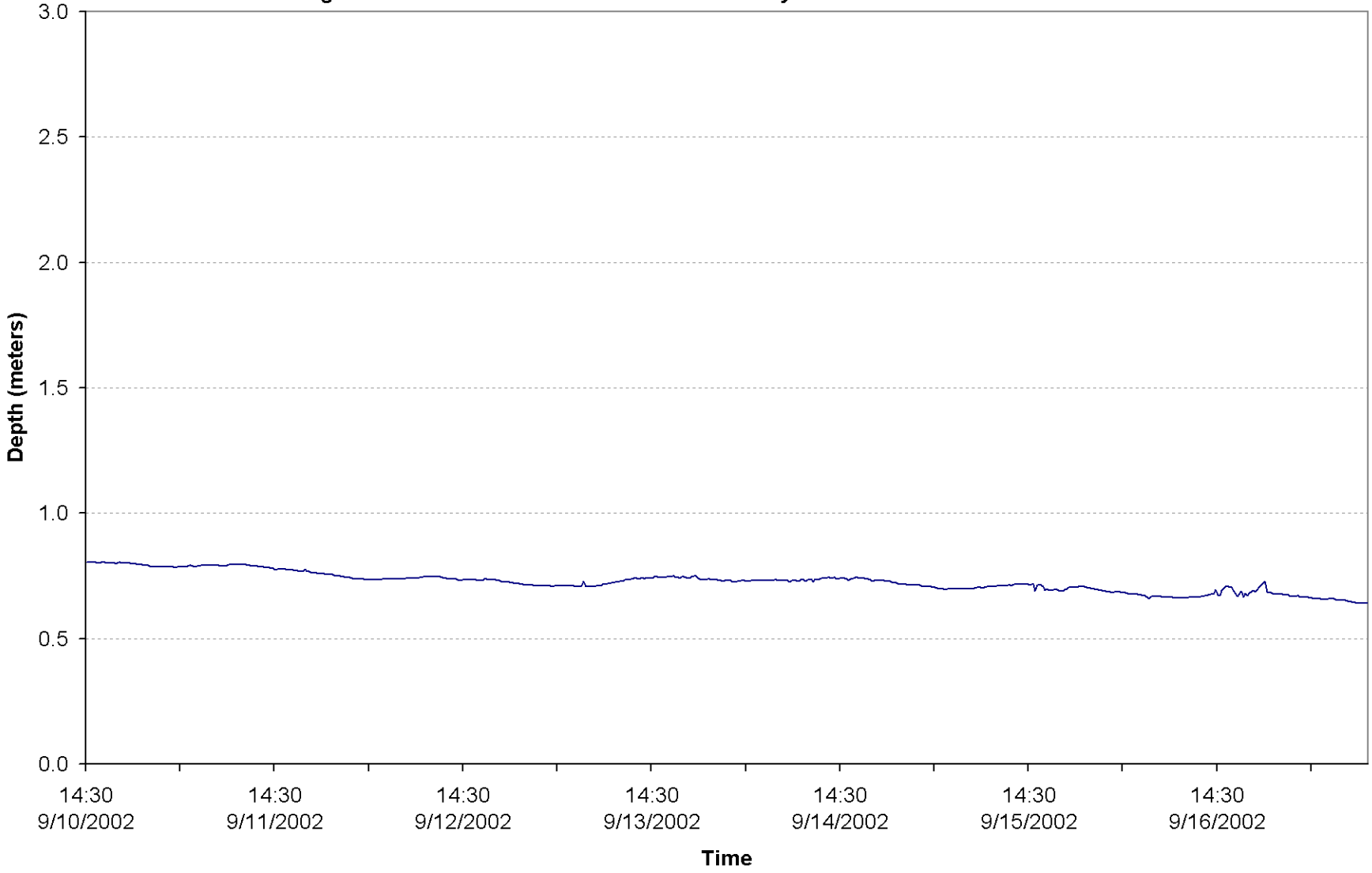


Figure B3.15. Continuous Temperature for Bayou des Allemands at BDA6

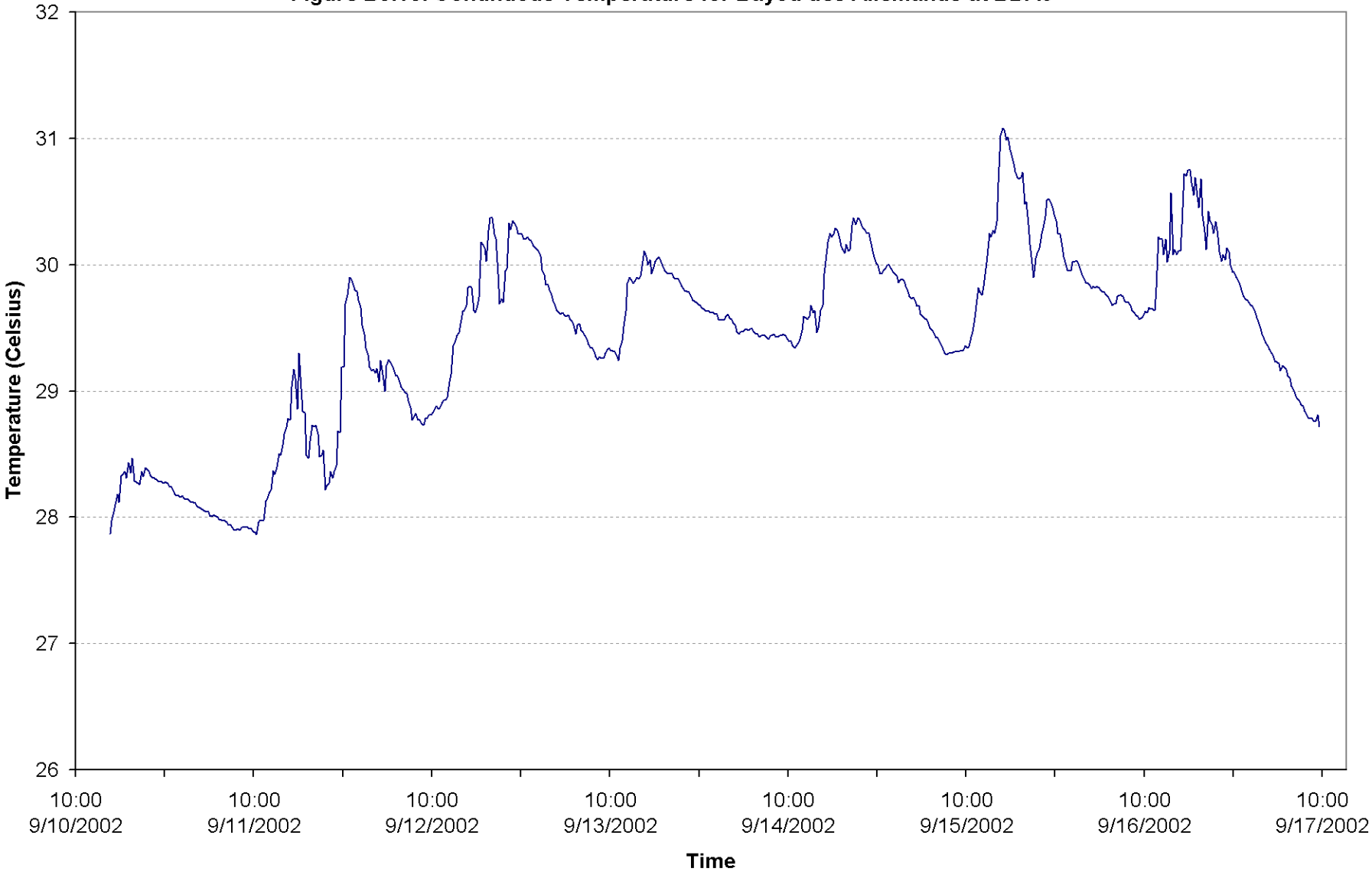


Figure B3.16. Continuous DO for Bayou des Allemands at BDA6

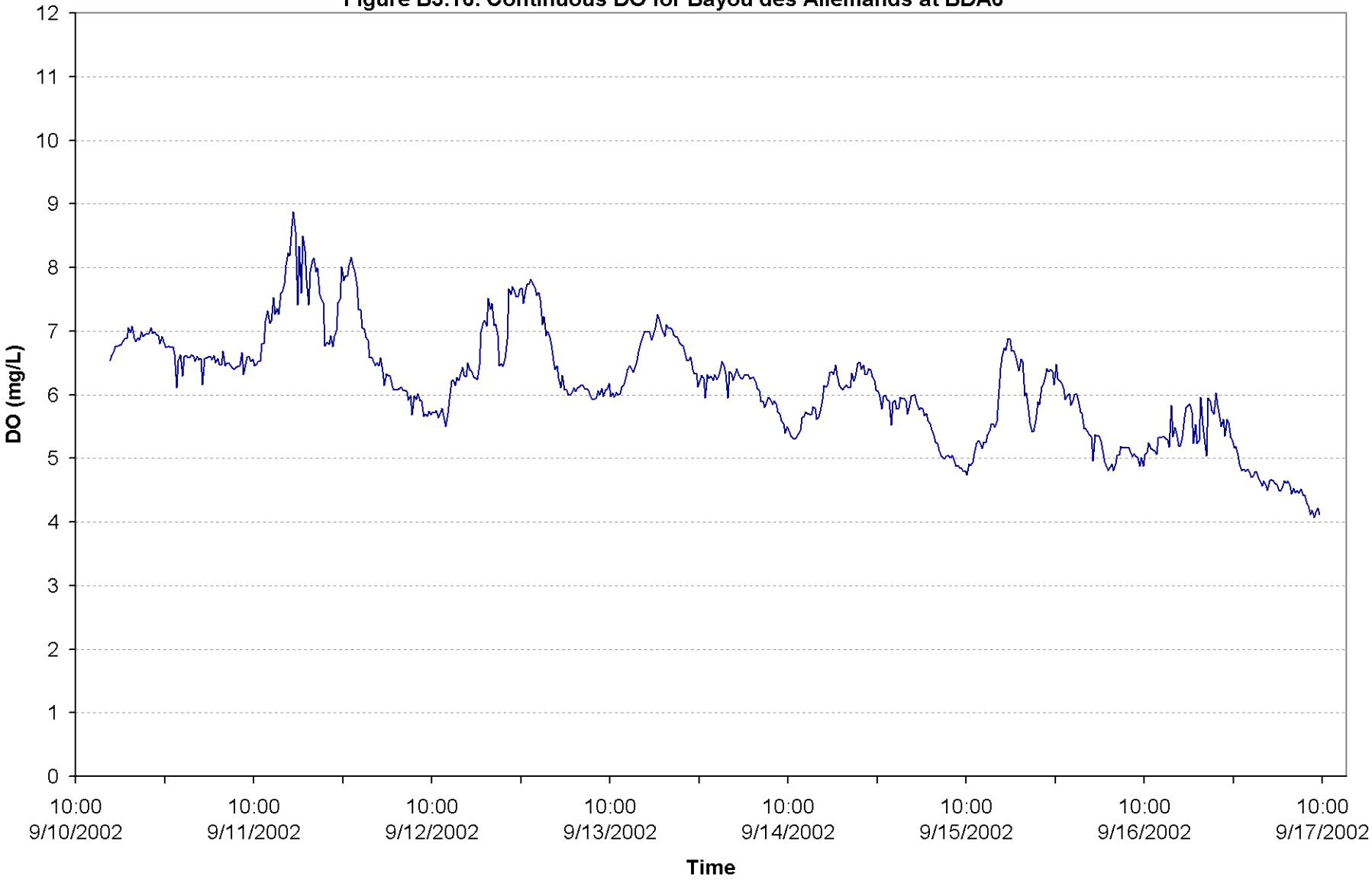


Figure B3.17. Continuous DO Percent Saturation for Bayou des Allemands at BDA6

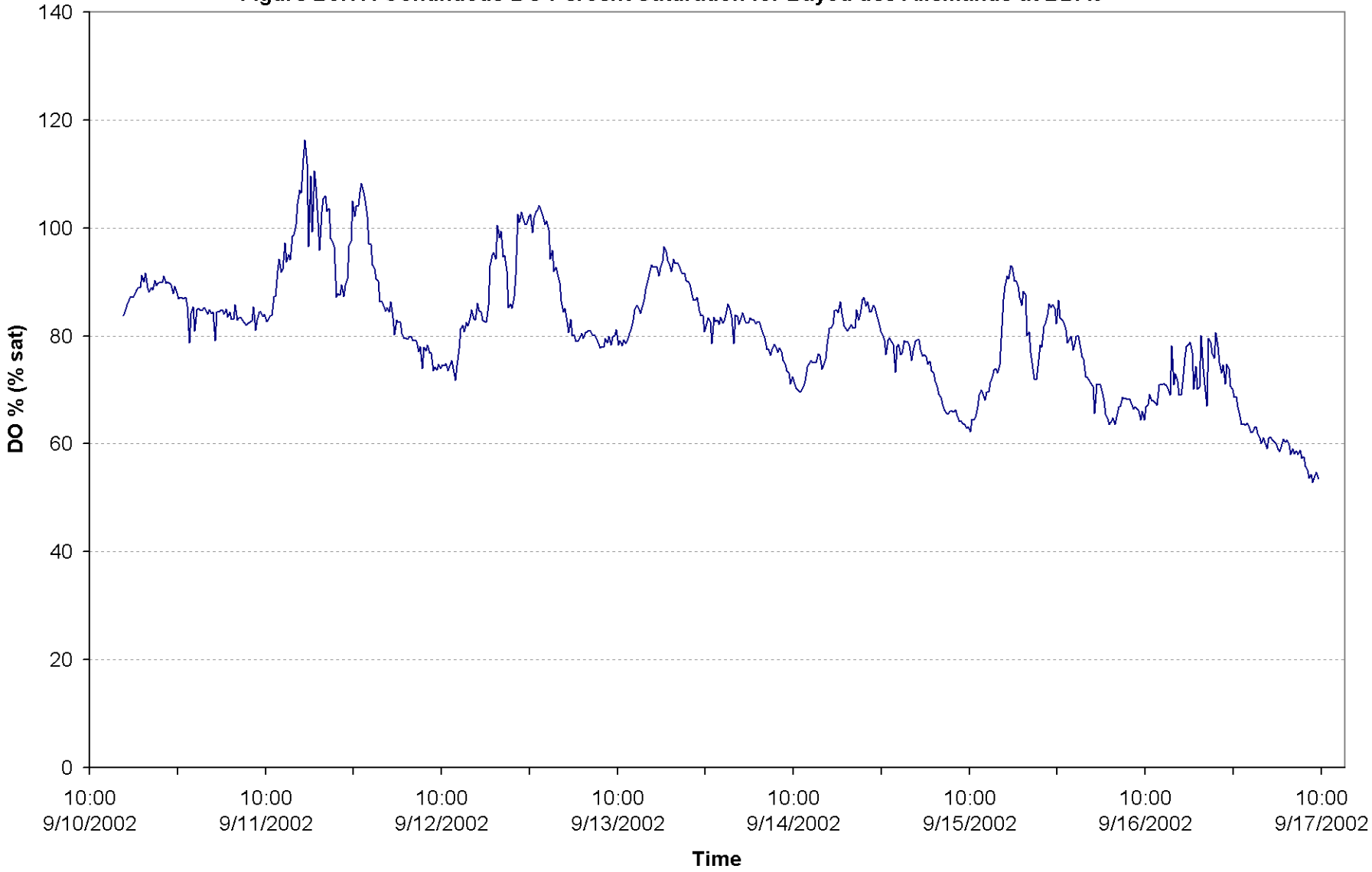


Figure B3.18. Continuous pH for Bayou des Allemands at BDA6

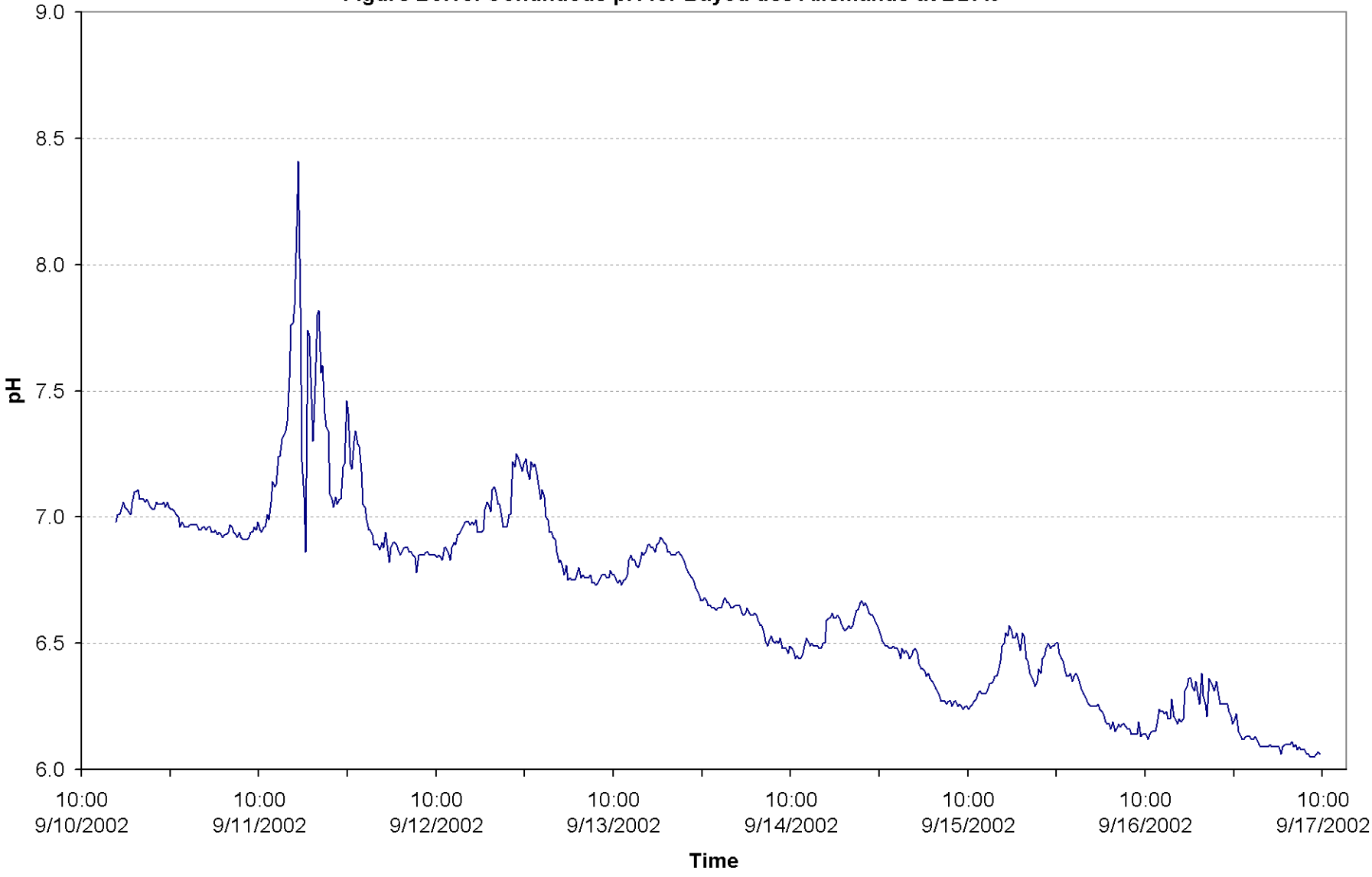


Figure B3.19. Continuous Specific Conductivity for Bayou des Allemands at BDA6

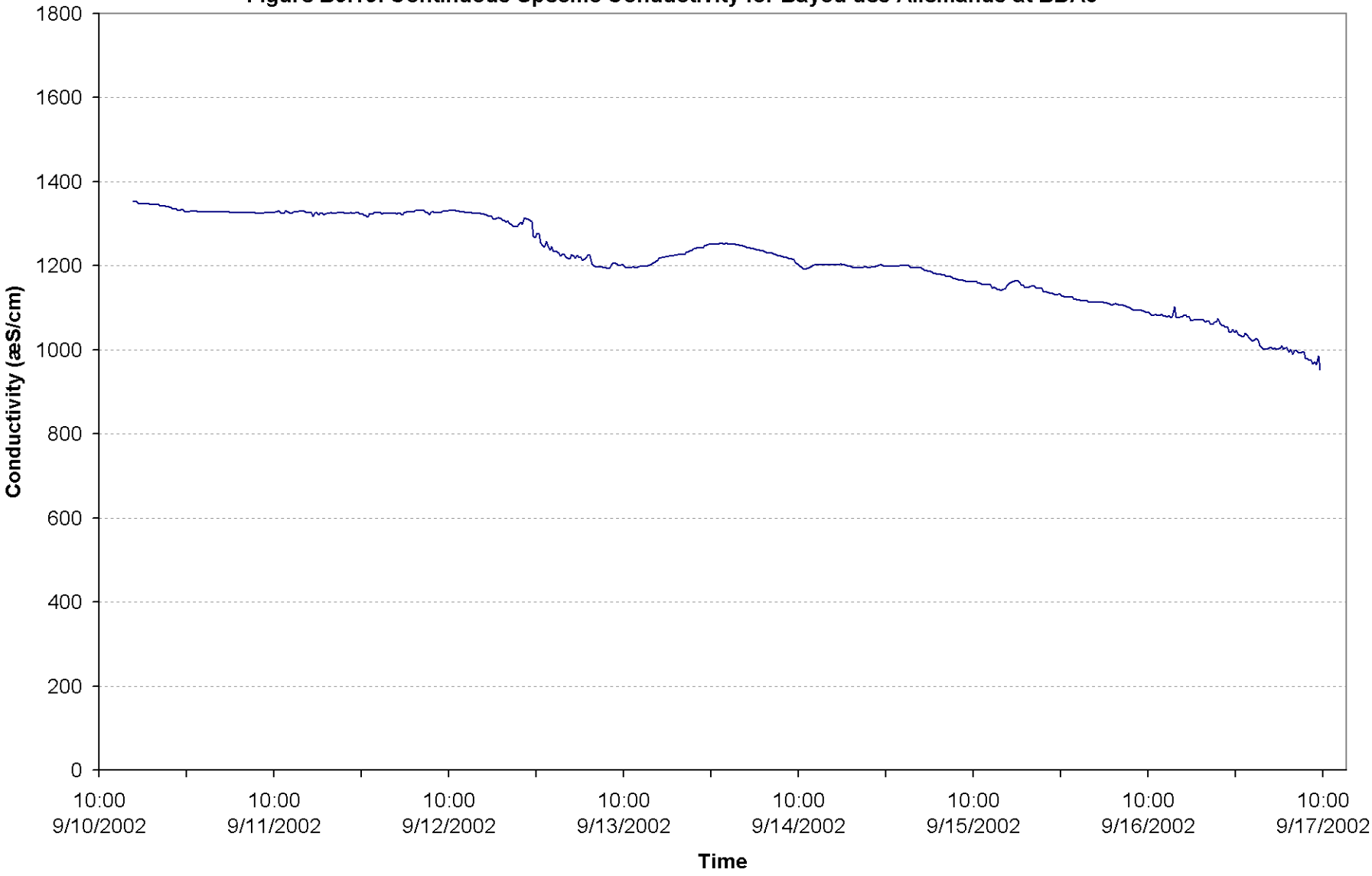
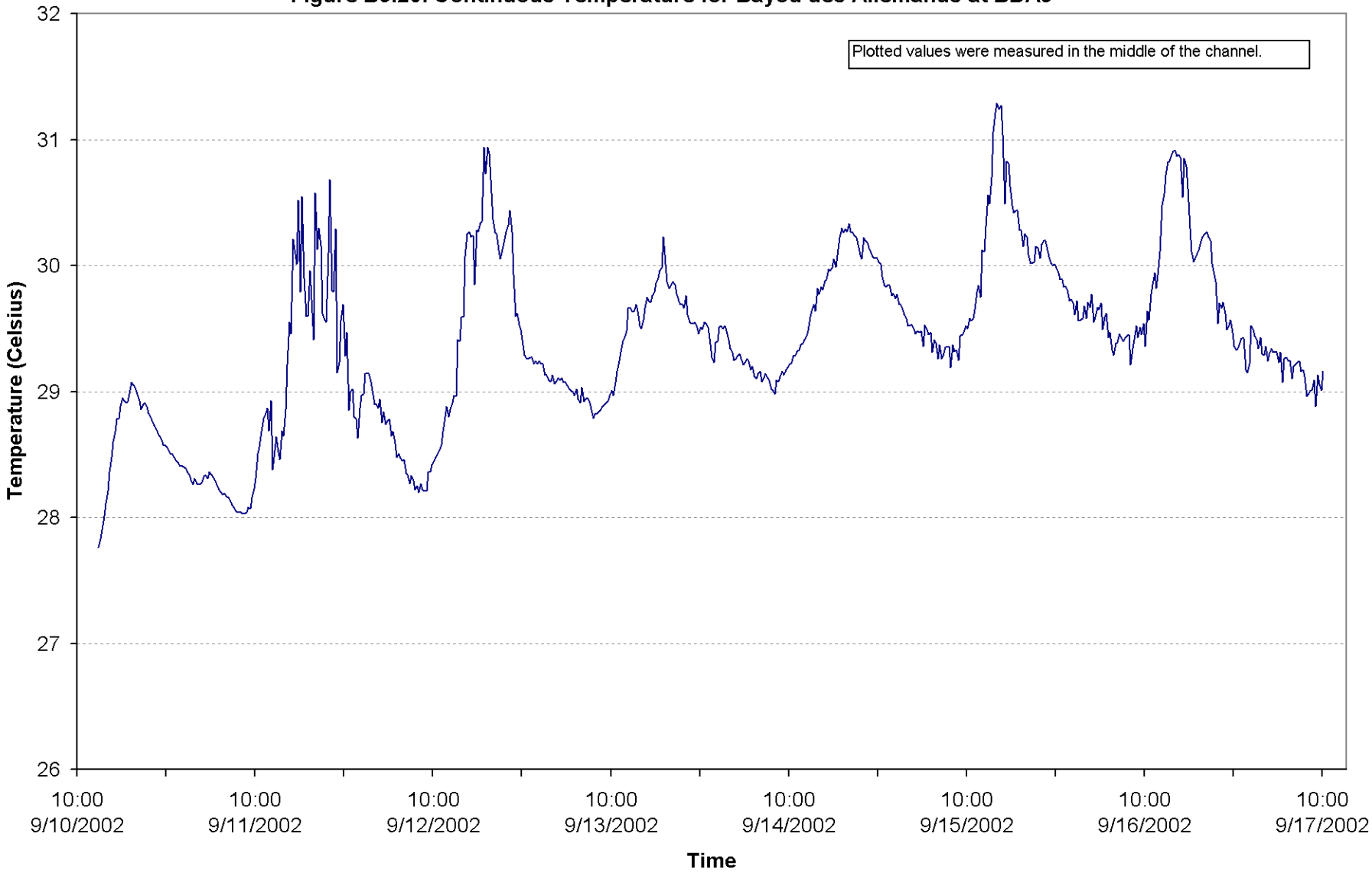


Figure B3.20. Continuous Temperature for Bayou des Allemands at BDA9



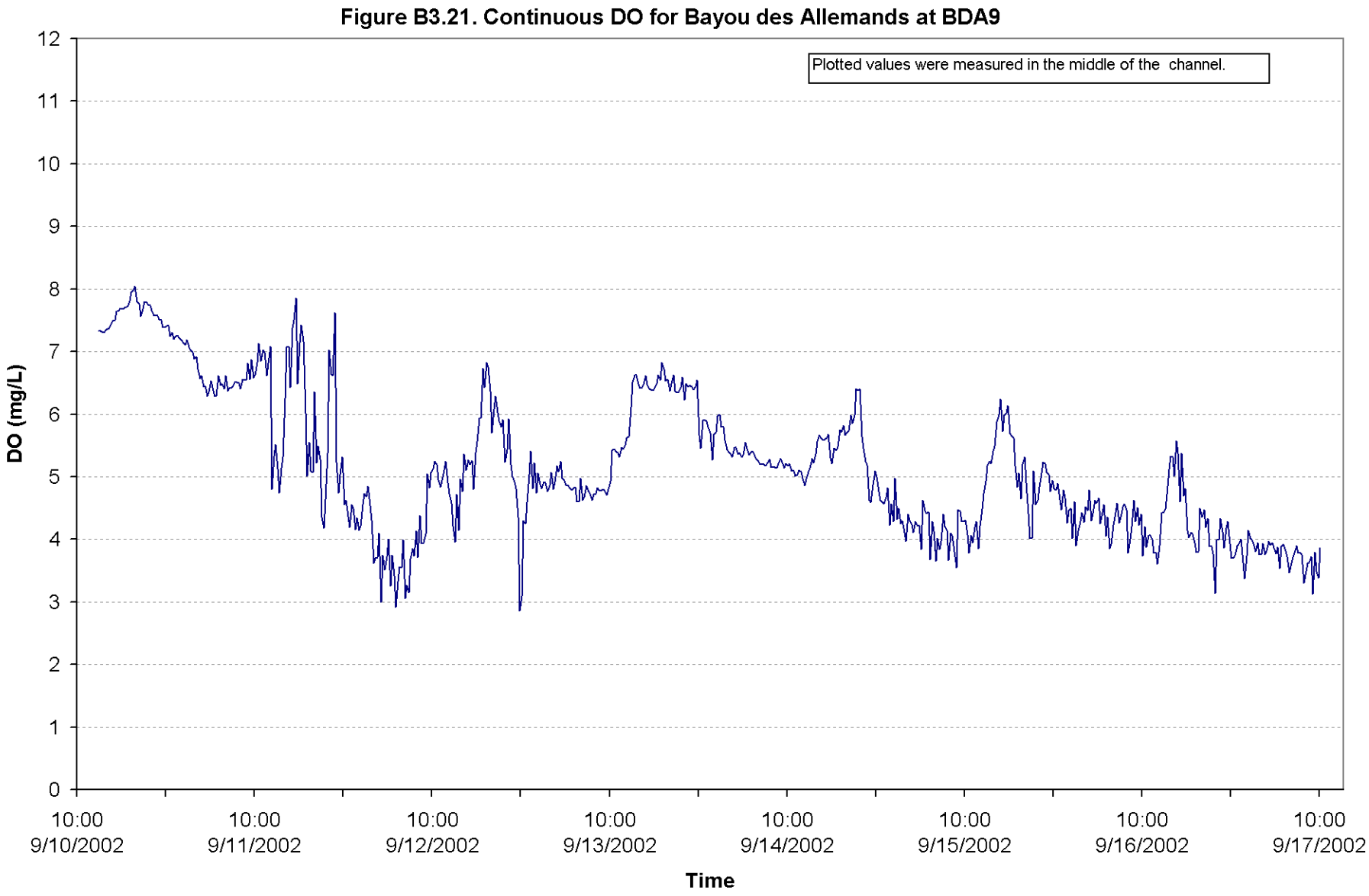


Figure B3.21. Continuous DO for Bayou des Allemands at BDA9
Plotted values were measured in the middle of the channel.
DO (mg/L)
12
11
10
9
8
7
6
5
4
3
2
1
0
10:00 9/10/2002
10:00 9/11/2002
10:00 9/12/2002
10:00 9/13/2002
10:00 9/14/2002
10:00 9/15/2002
10:00 9/16/2002
10:00 9/17/2002
Time

Figure B3.22. Continuous DO Percent Saturation for Bayou des Allemands at BDA9

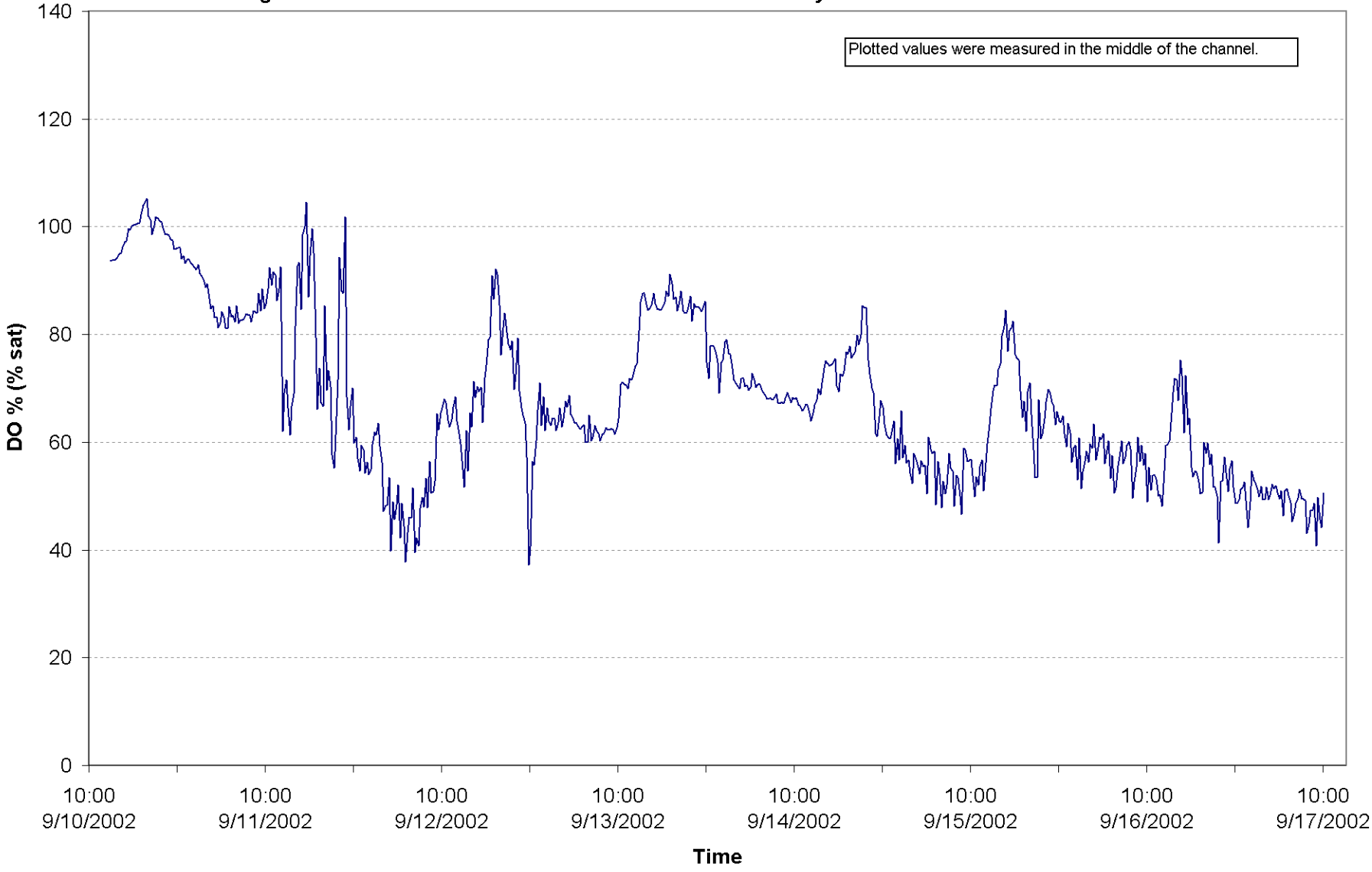


Figure B3.23. Continuous pH for Bayou des Allemands at BDA9

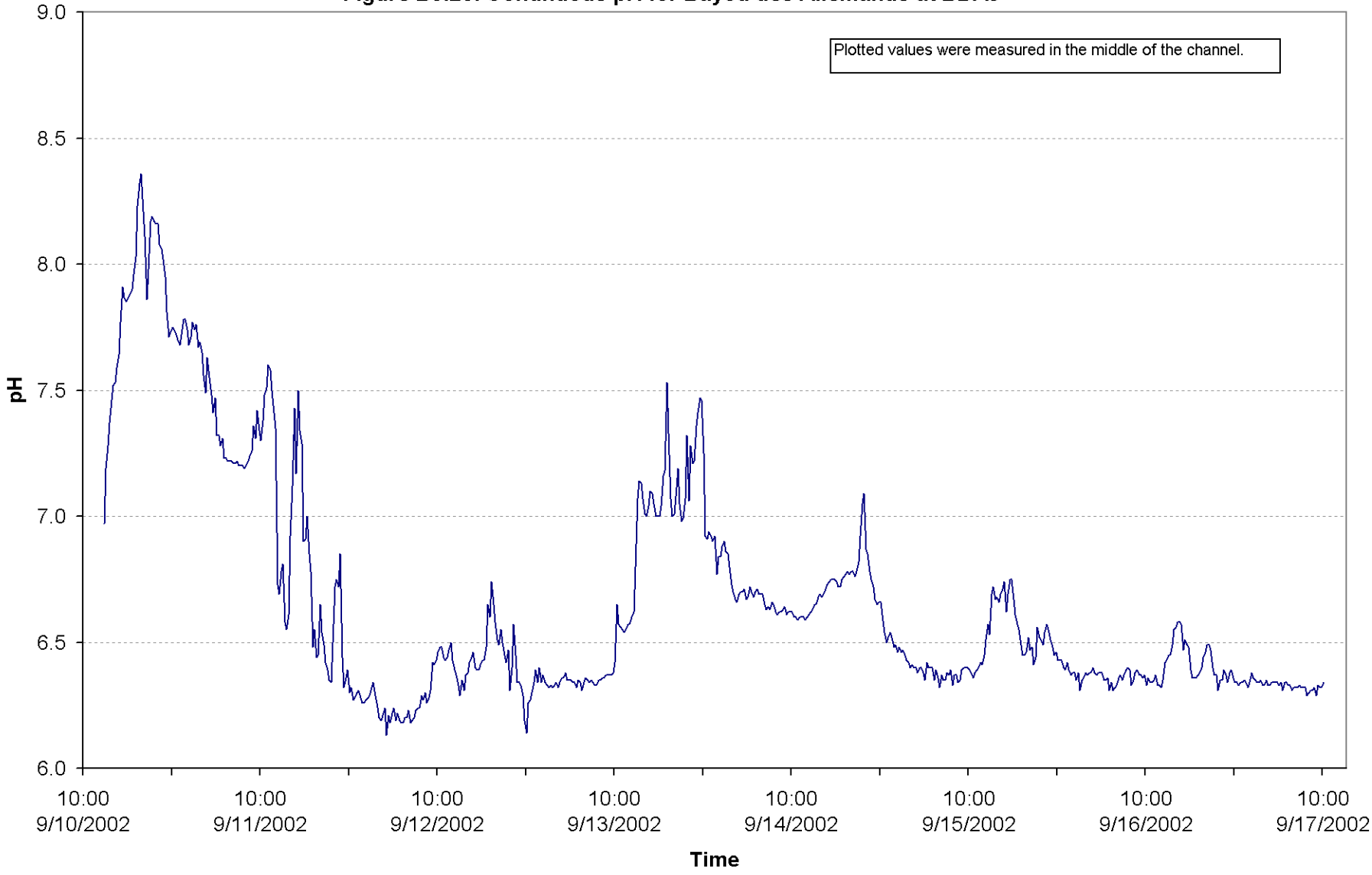


Figure B3.24. Continuous Specific Conductivity for Bayou des Allemands at BDA9

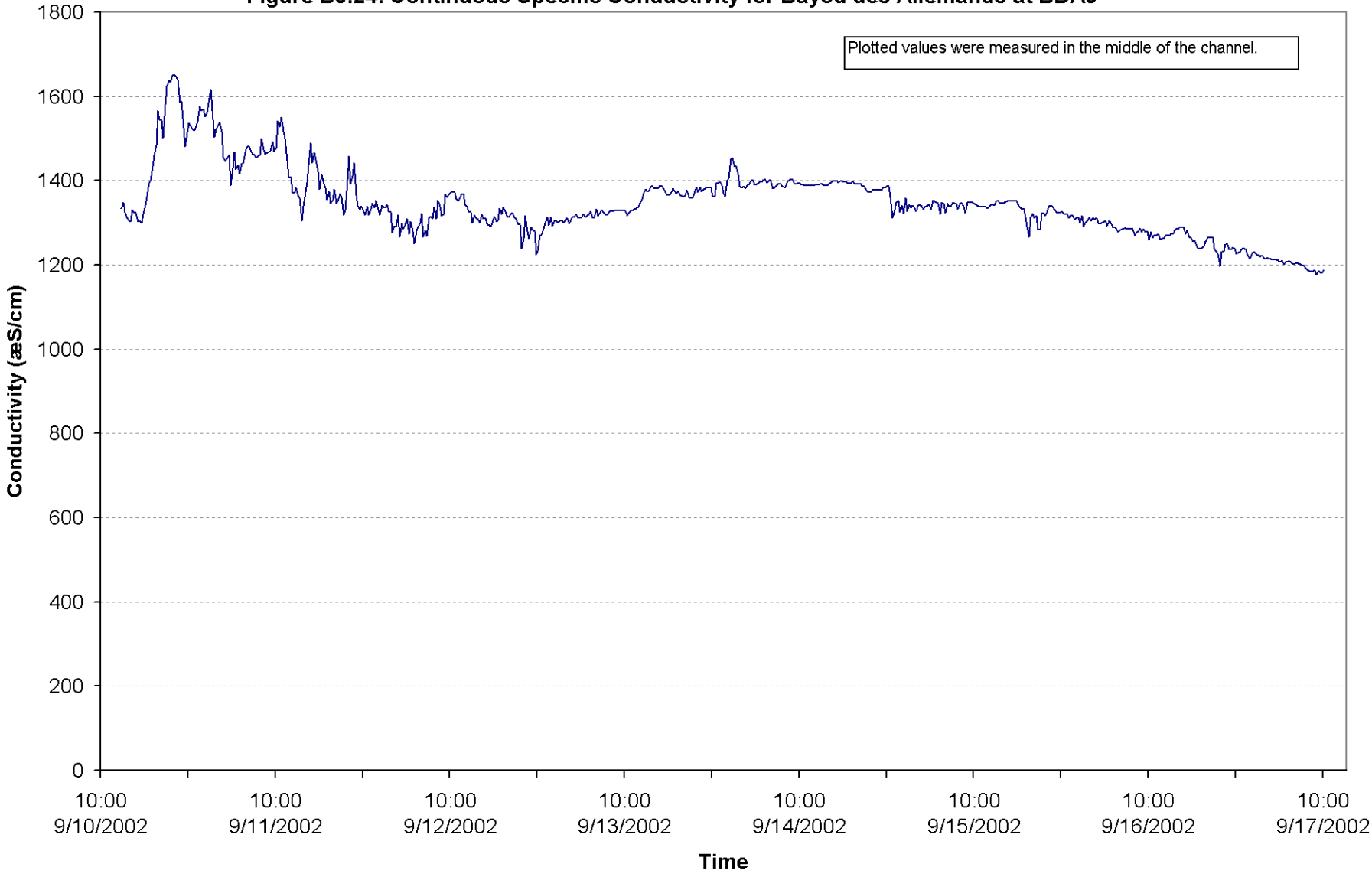


Figure B3.25. Continuous Water Level for Bayou des Allemands at BDA9

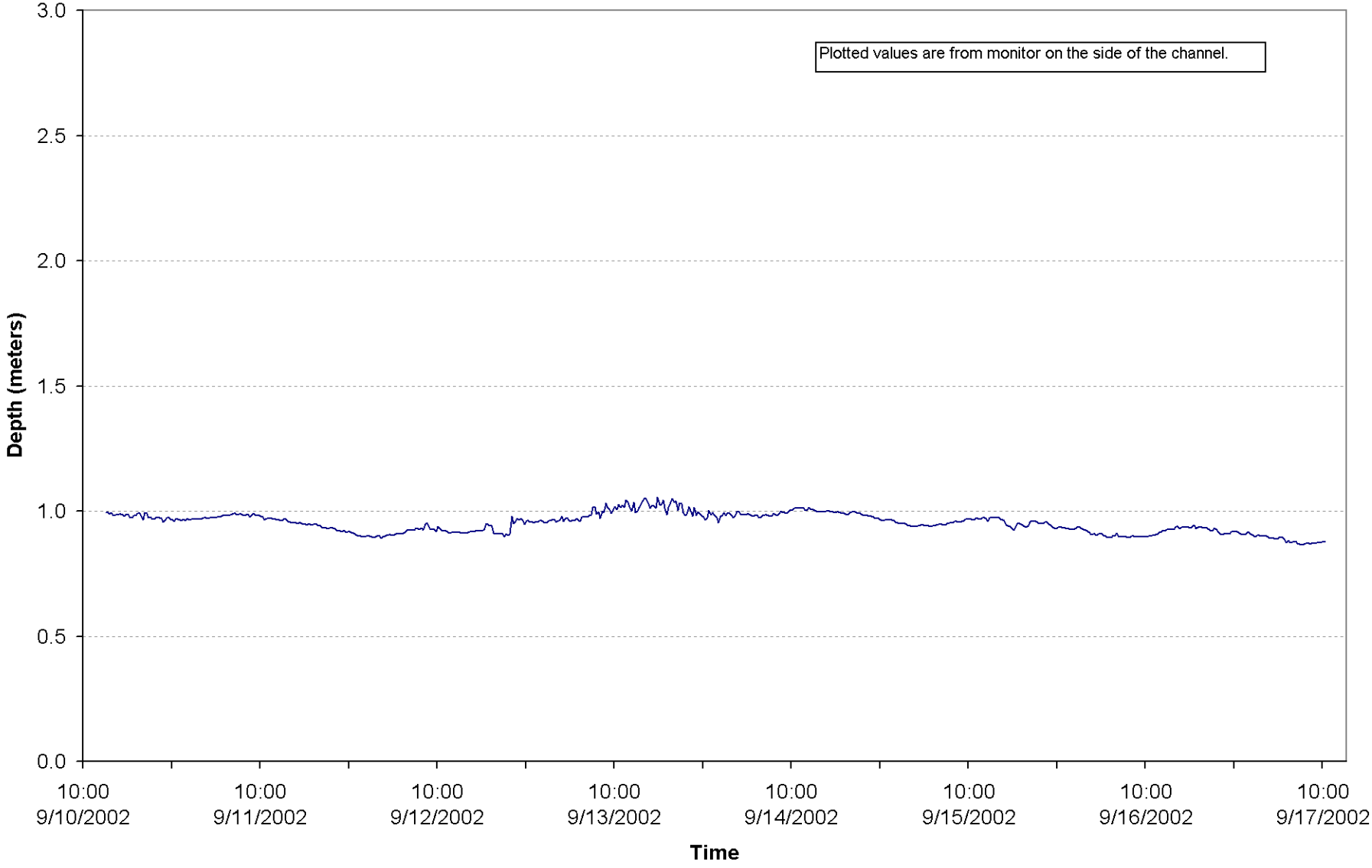


Figure B3.26. Continuous Temperature for Dufrene Ponds at DP1

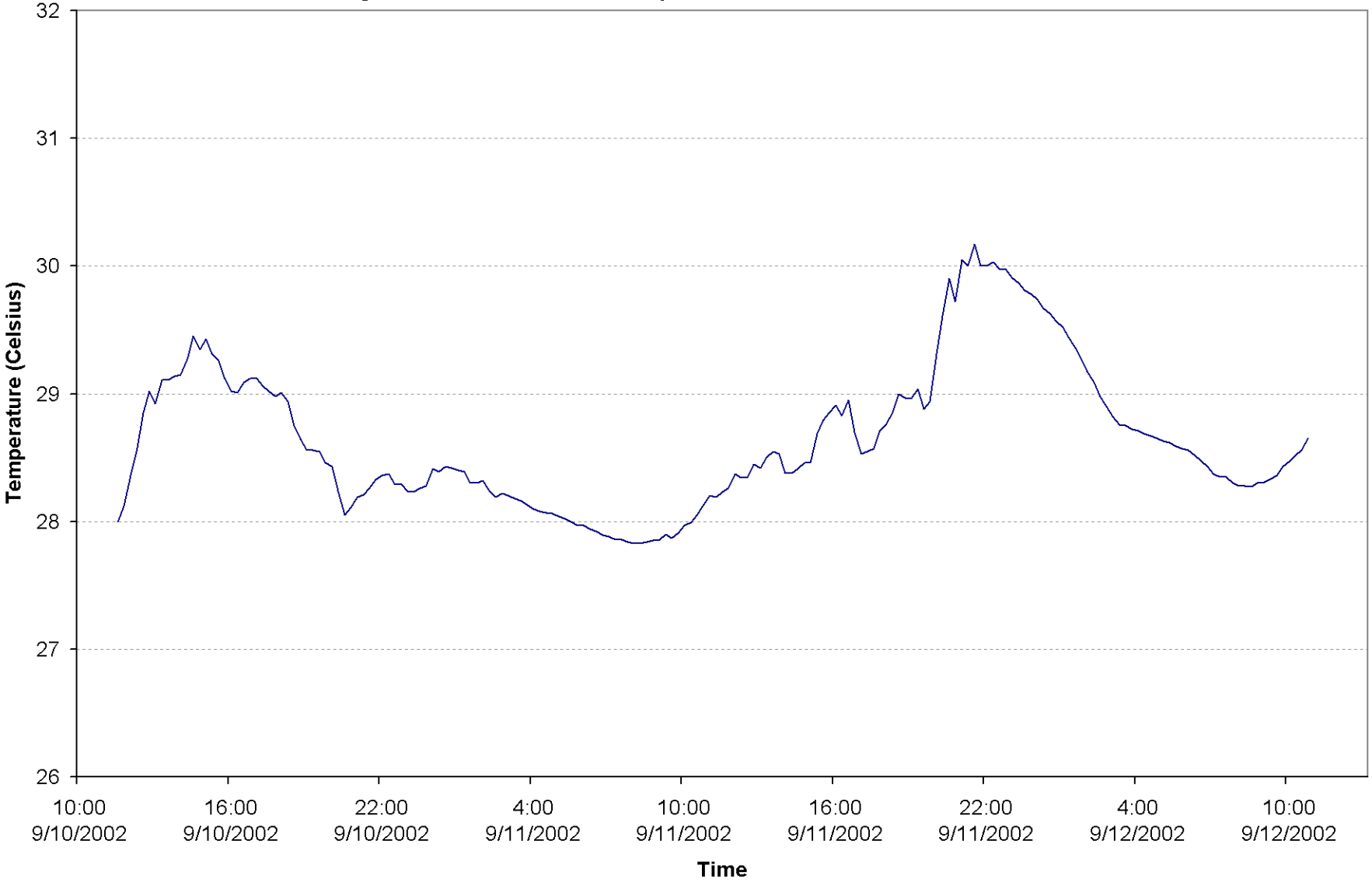


Figure B3.27. Continuous DO for Dufrene Ponds at DP1

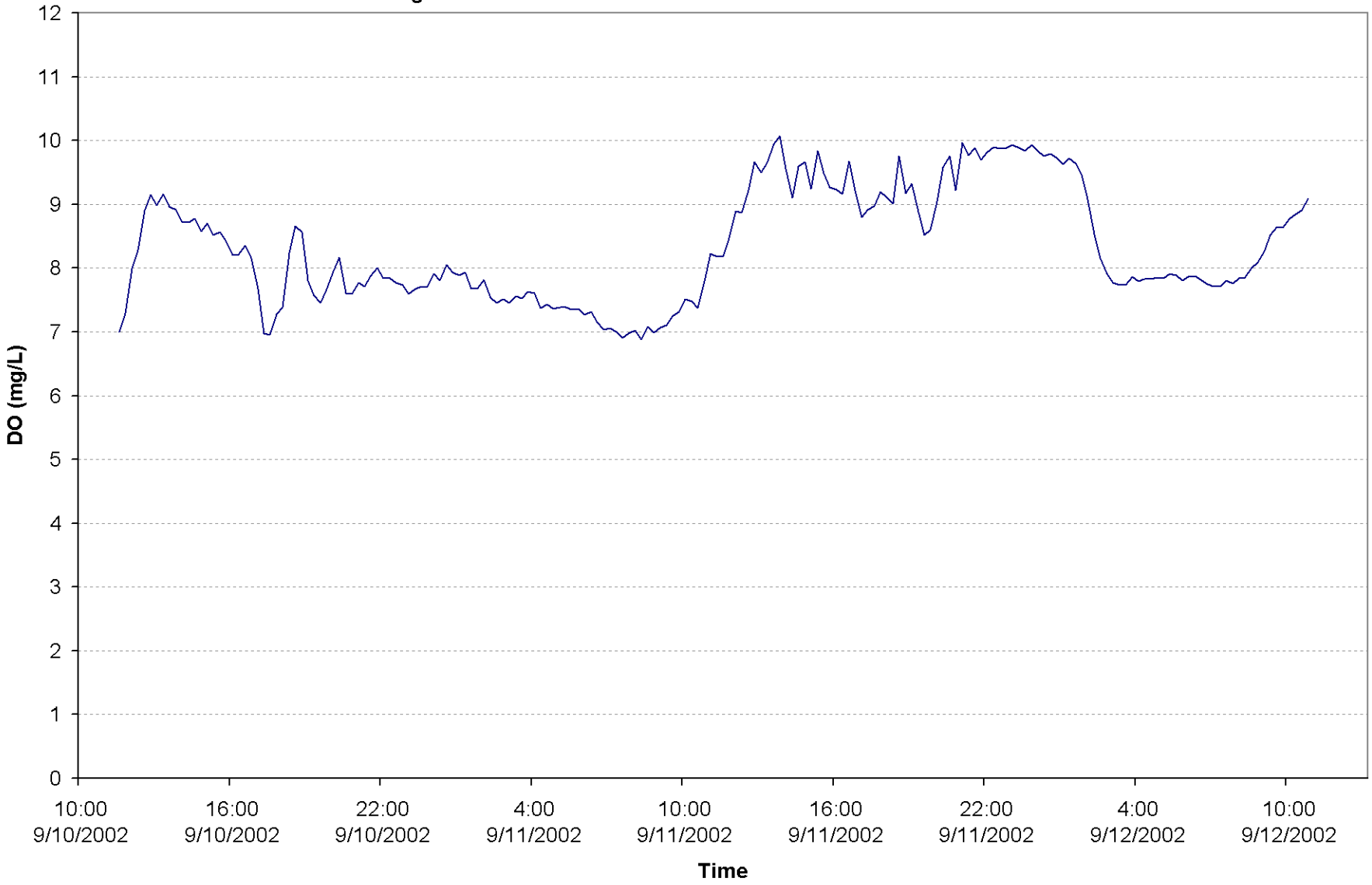


Figure B3.28. Continuous DO Percent Saturation for Dufrene Ponds at DP1

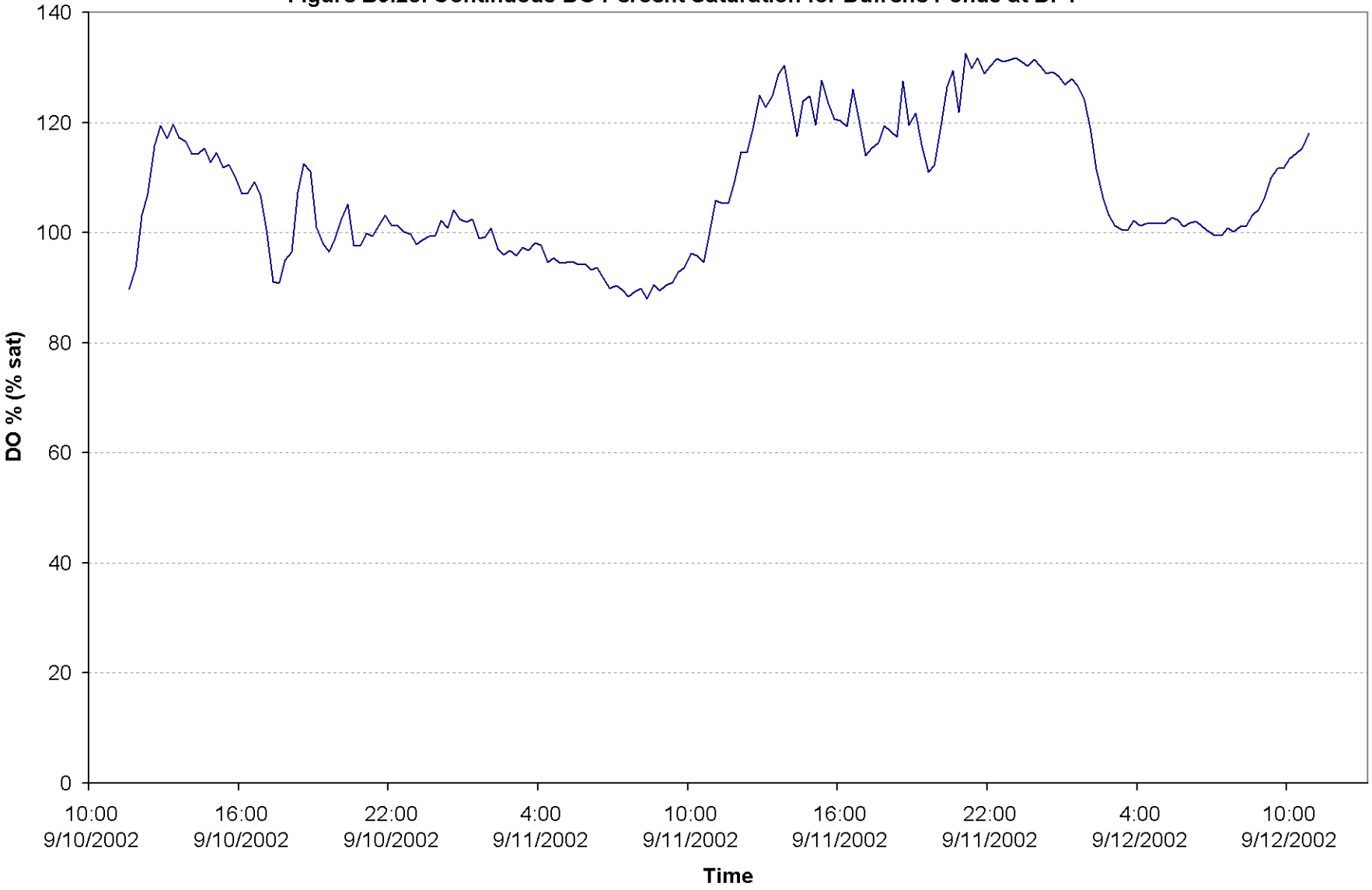


Figure B3.29. Continuous pH for Dufrene Ponds at DP1

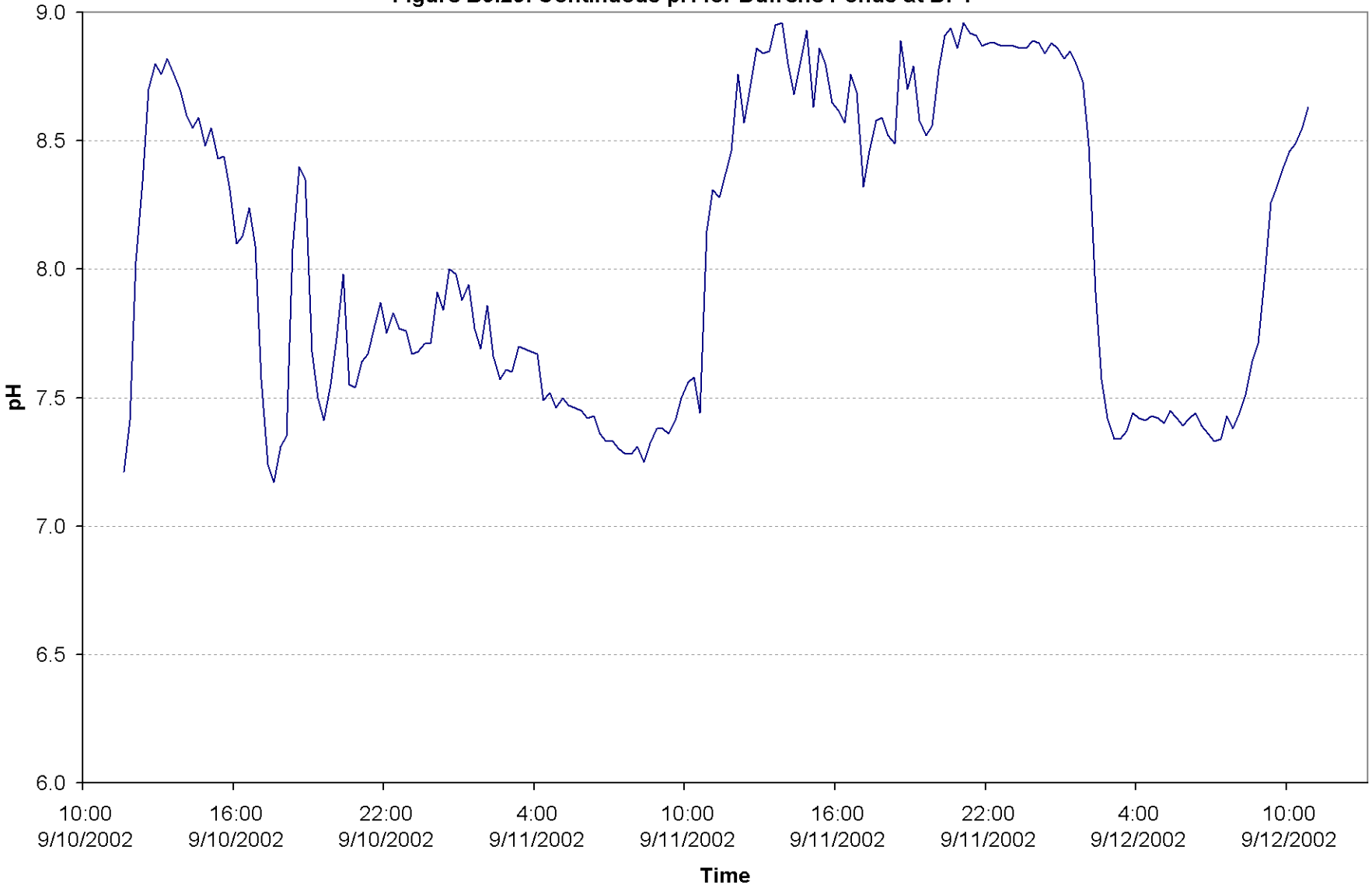


Figure B3.30. Continuous Specific Conductivity for Dufrene Ponds at DP1

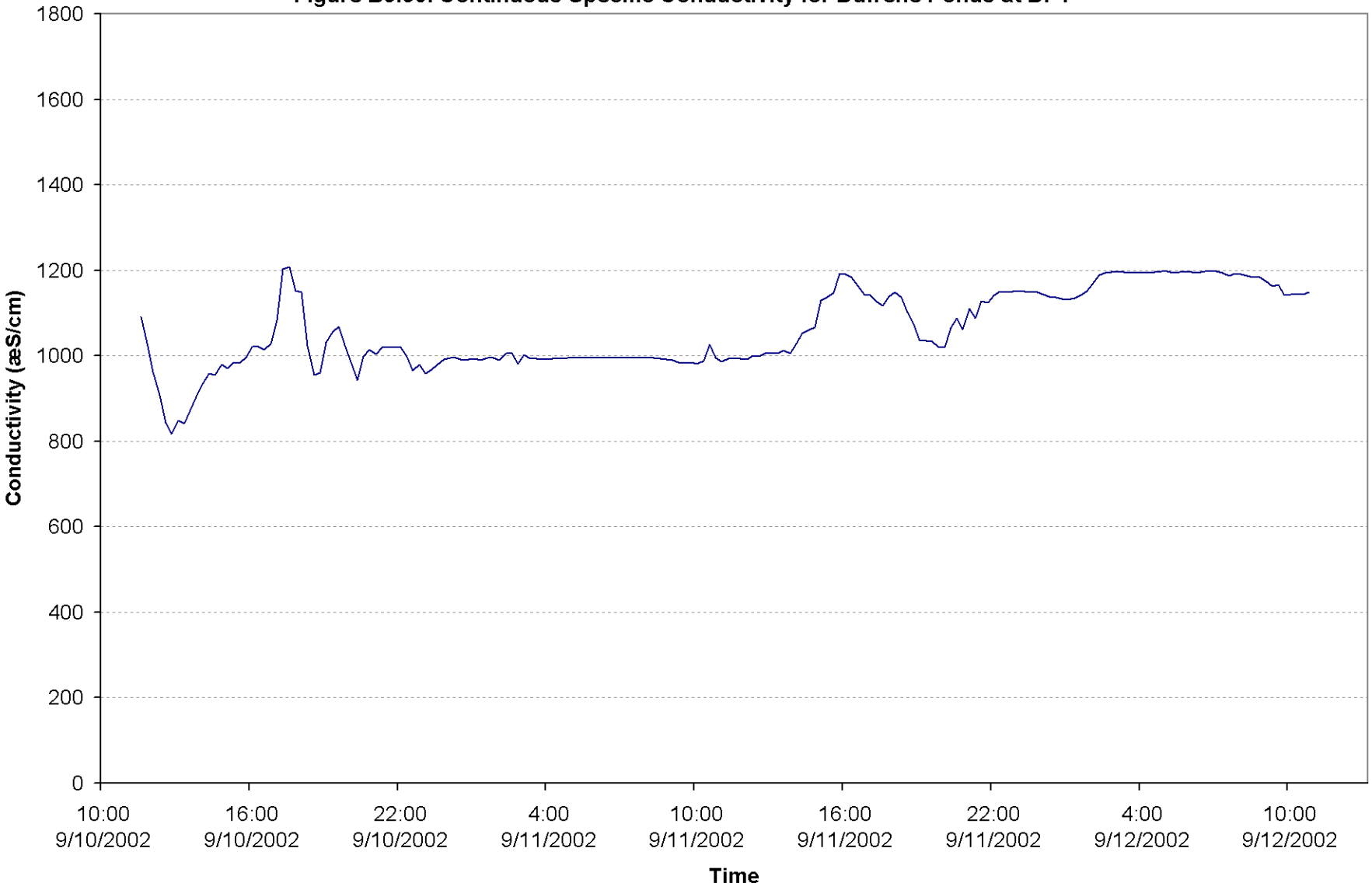


Figure B3.31. Continuous Salinity for Dufrene Ponds at DP1

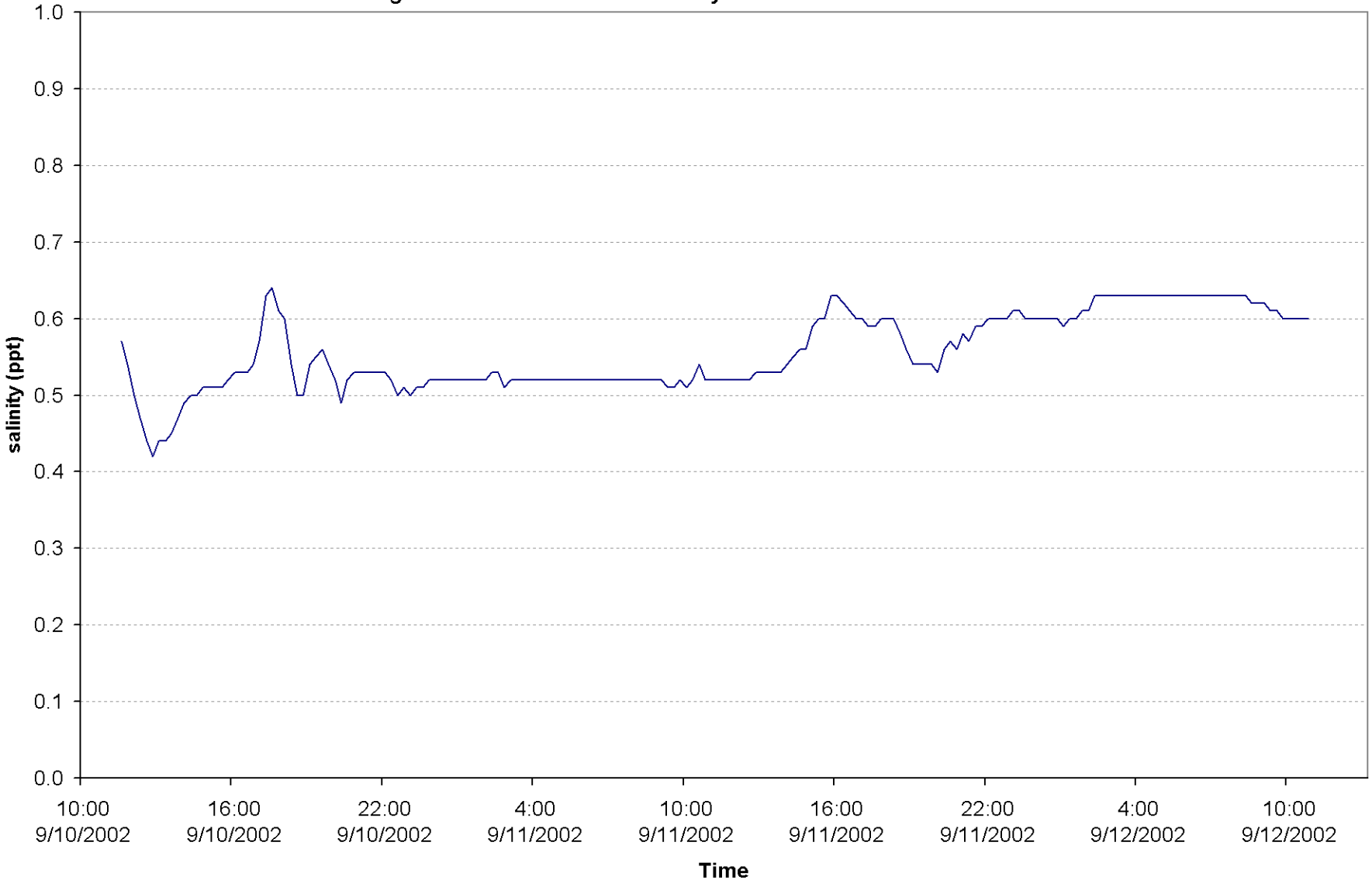


Figure B3.32. Continuous Water Level for Dufrene Ponds at DP1

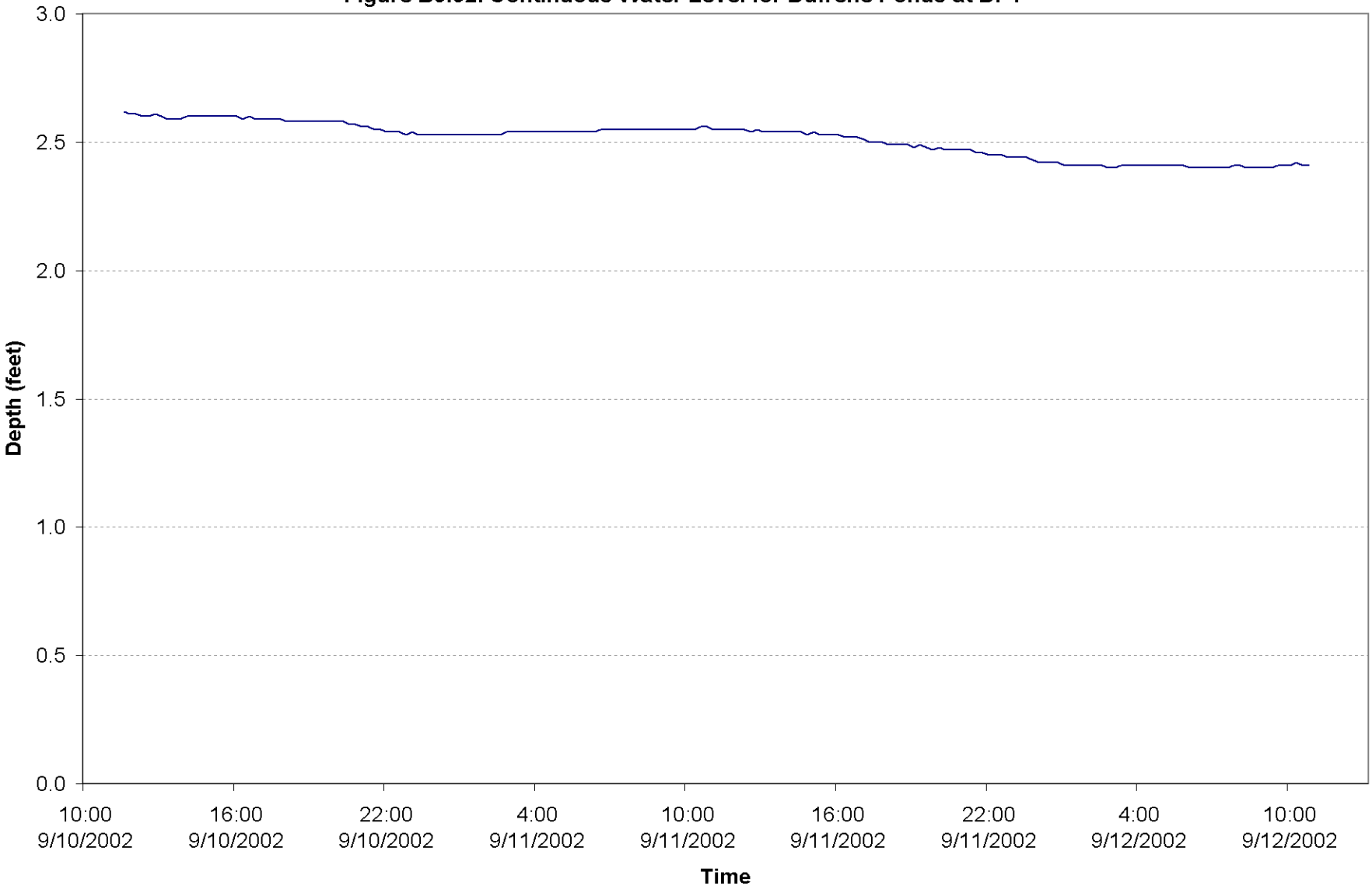


Figure B3.33. Continuous Temperature for Unnamed Canal A at UCA1

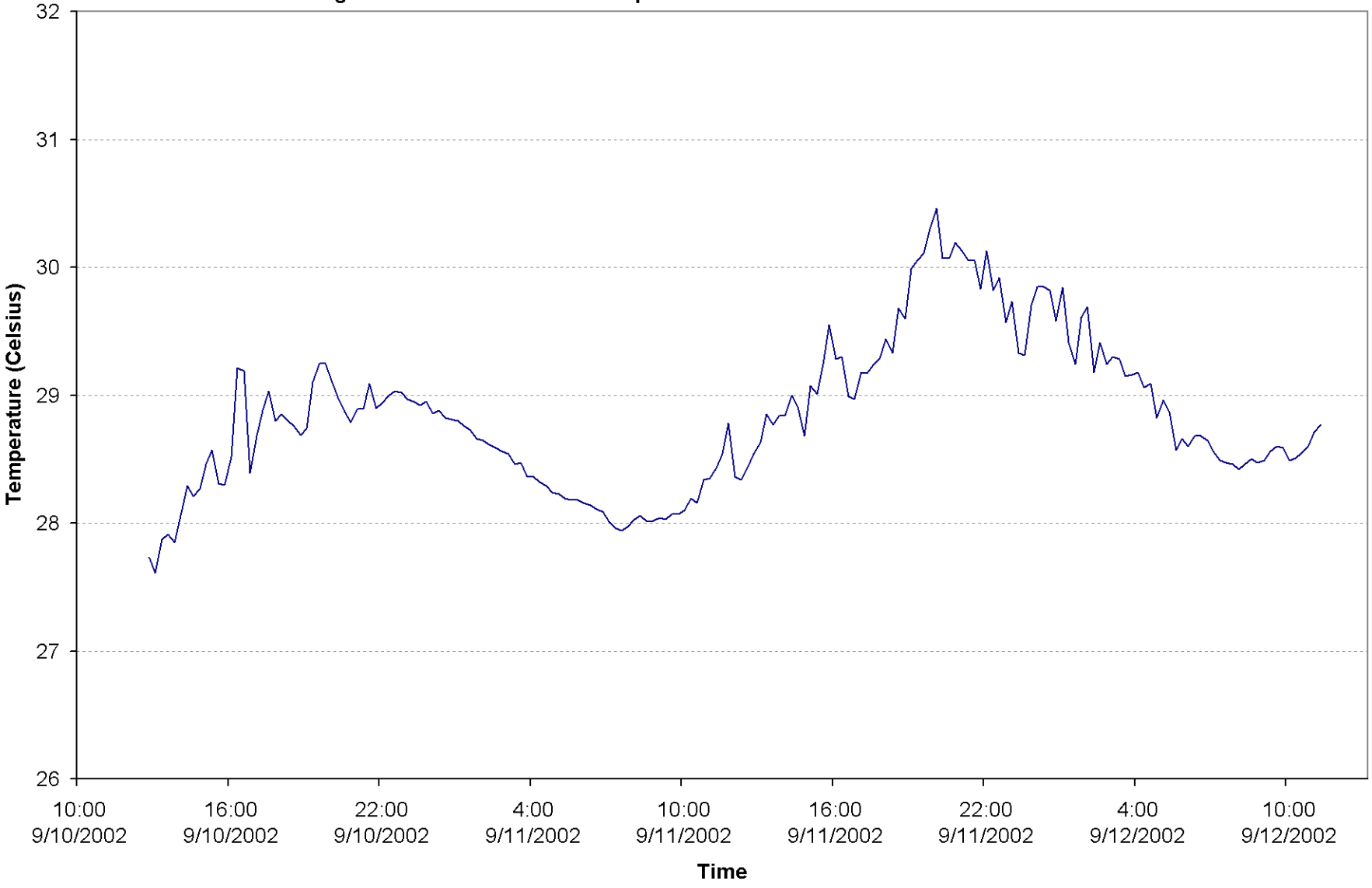


Figure B3.34. Continuous DO for Unnamed Canal A at UCA1

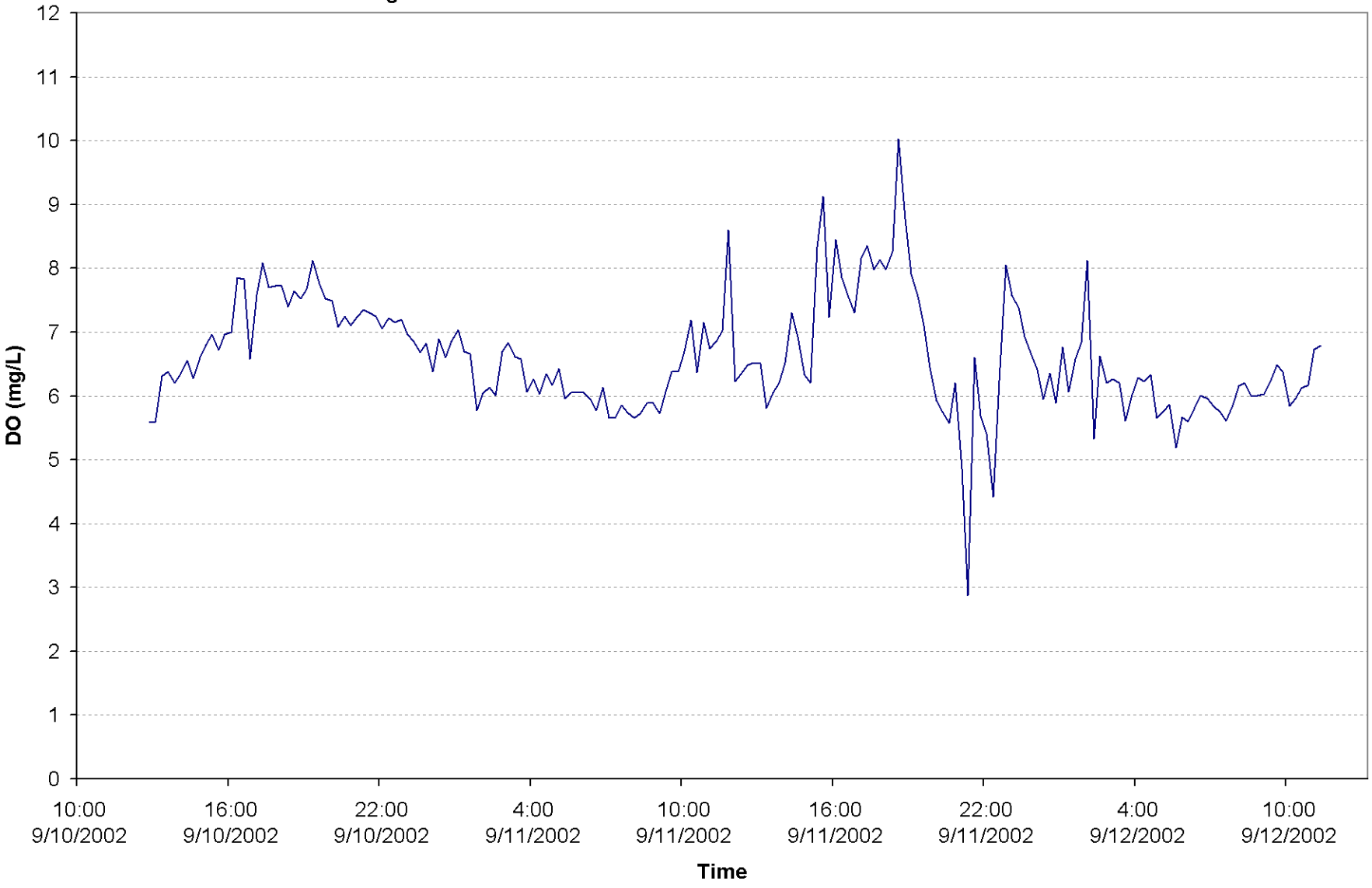


Figure B3.35. Continuous DO for Unnamed Canal A at UCA1

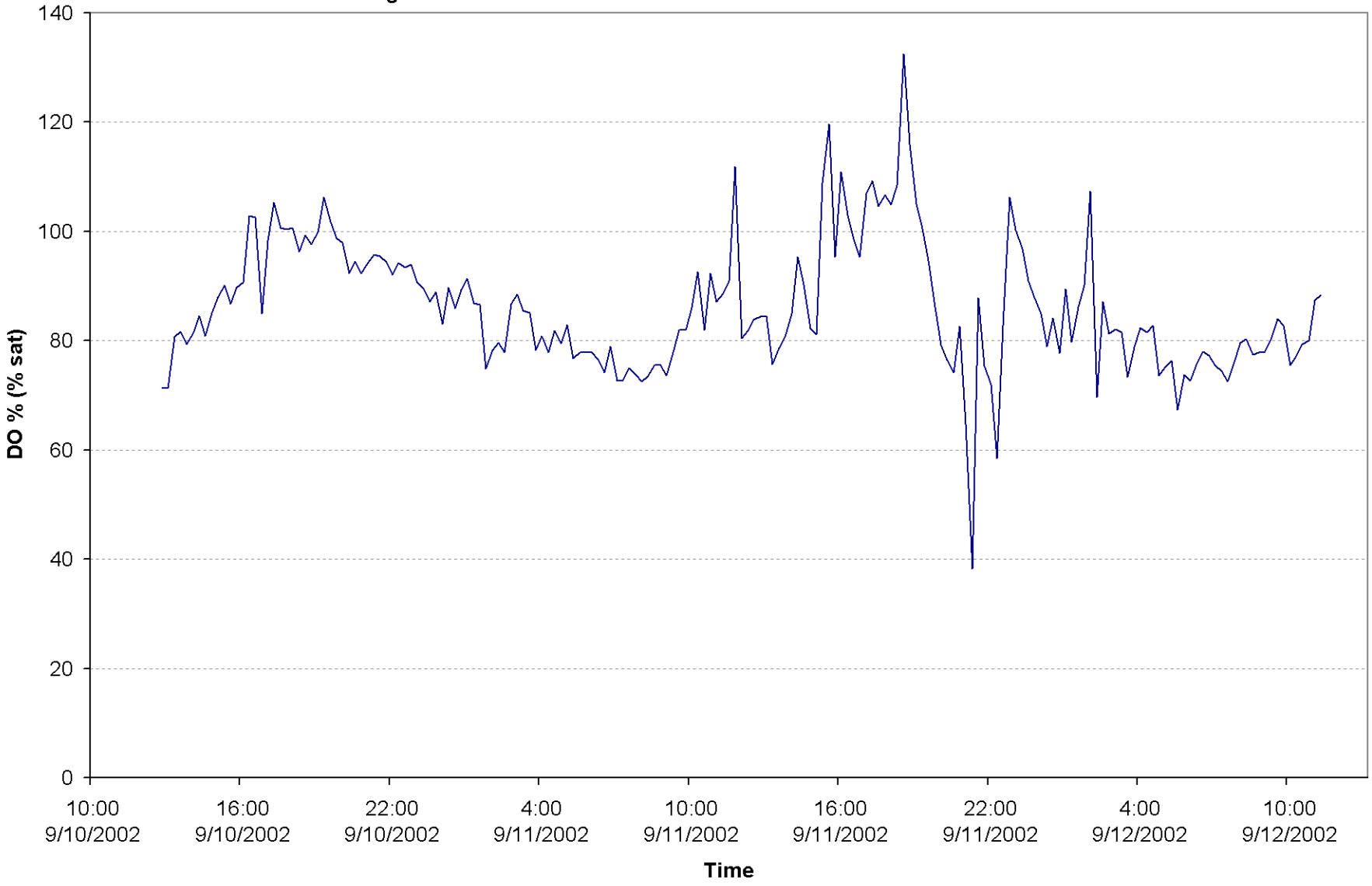


Figure B3.36. Continuous pH for Unnamed Canal A at UCA1

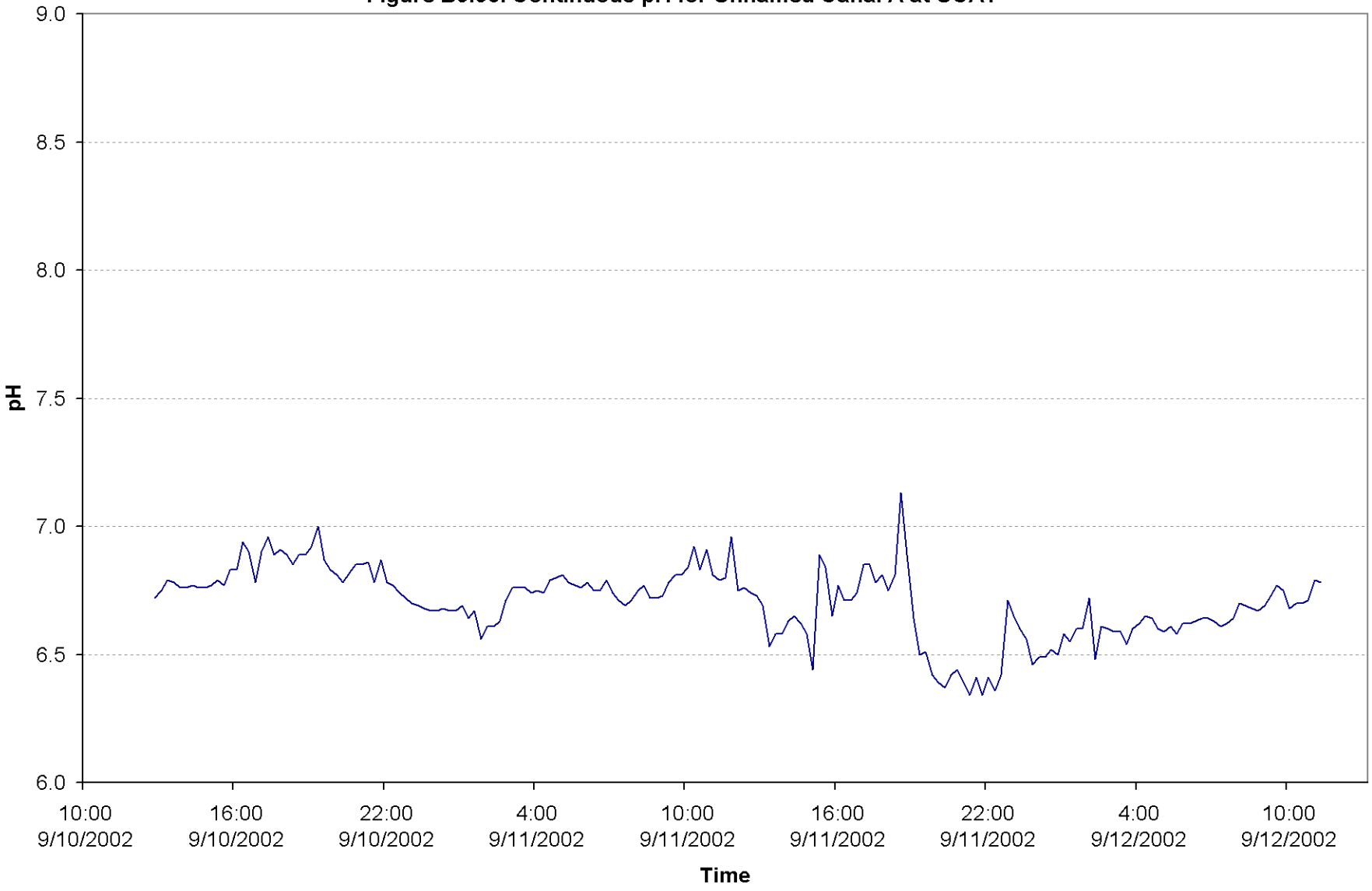


Figure B3.37. Continuous Specific Conductivity for Unnamed Canal A at UCA1

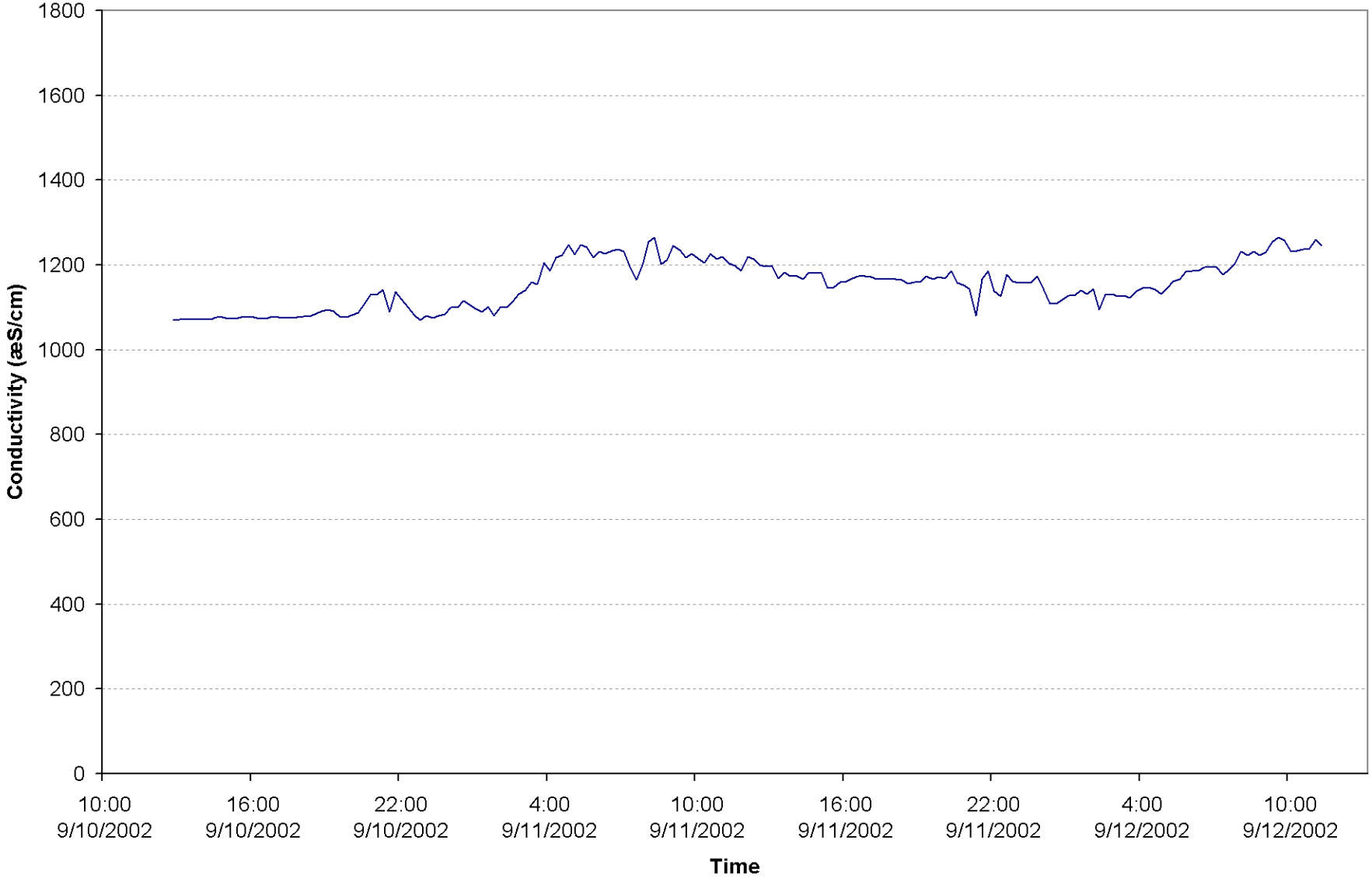
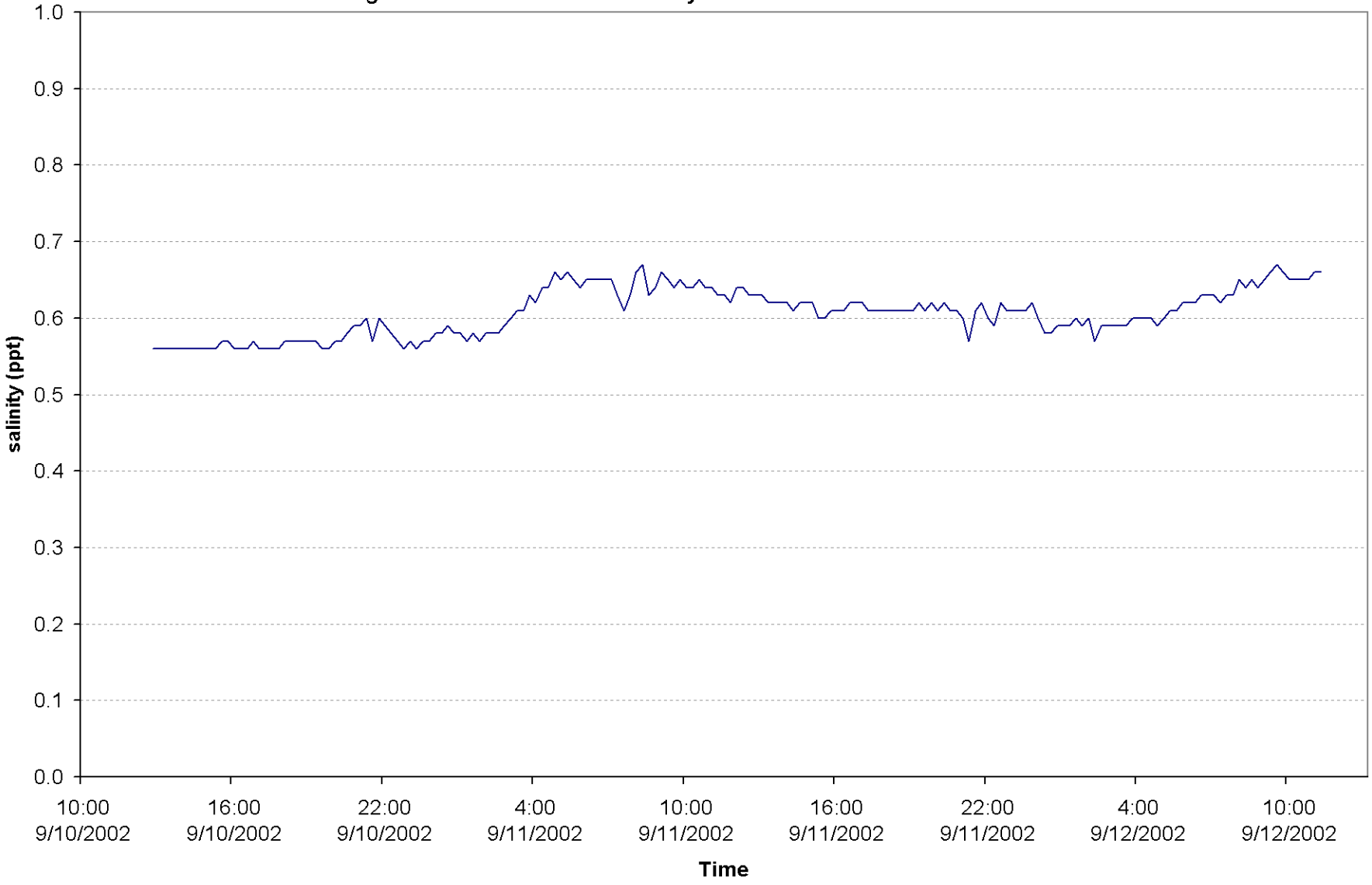


Figure B3.38. Continuous Salinity for Unnamed Canal A at UCA1



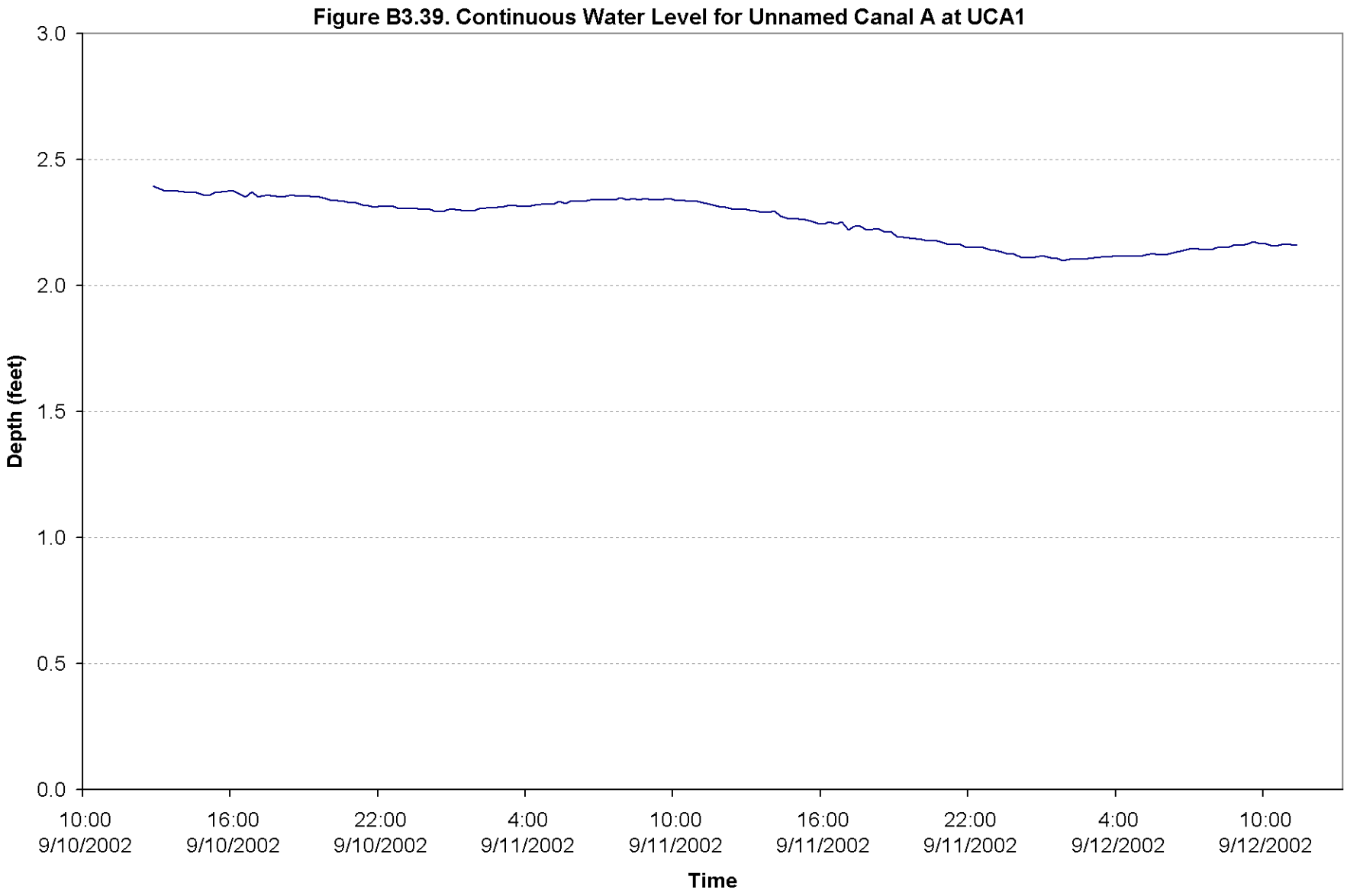


Figure B3.39. Continuous Water Level for Unnamed Canal A at UCA1
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Depth (feet)
10:00 9/10/2002
16:00 9/10/2002
22:00 9/10/2002
4:00 9/11/2002
10:00 9/11/2002
16:00 9/11/2002
22:00 9/11/2002
4:00 9/12/2002
10:00 9/12/2002
Time

Figure B3.40. Continuous Temperature for Unnamed Canal B at UCB1

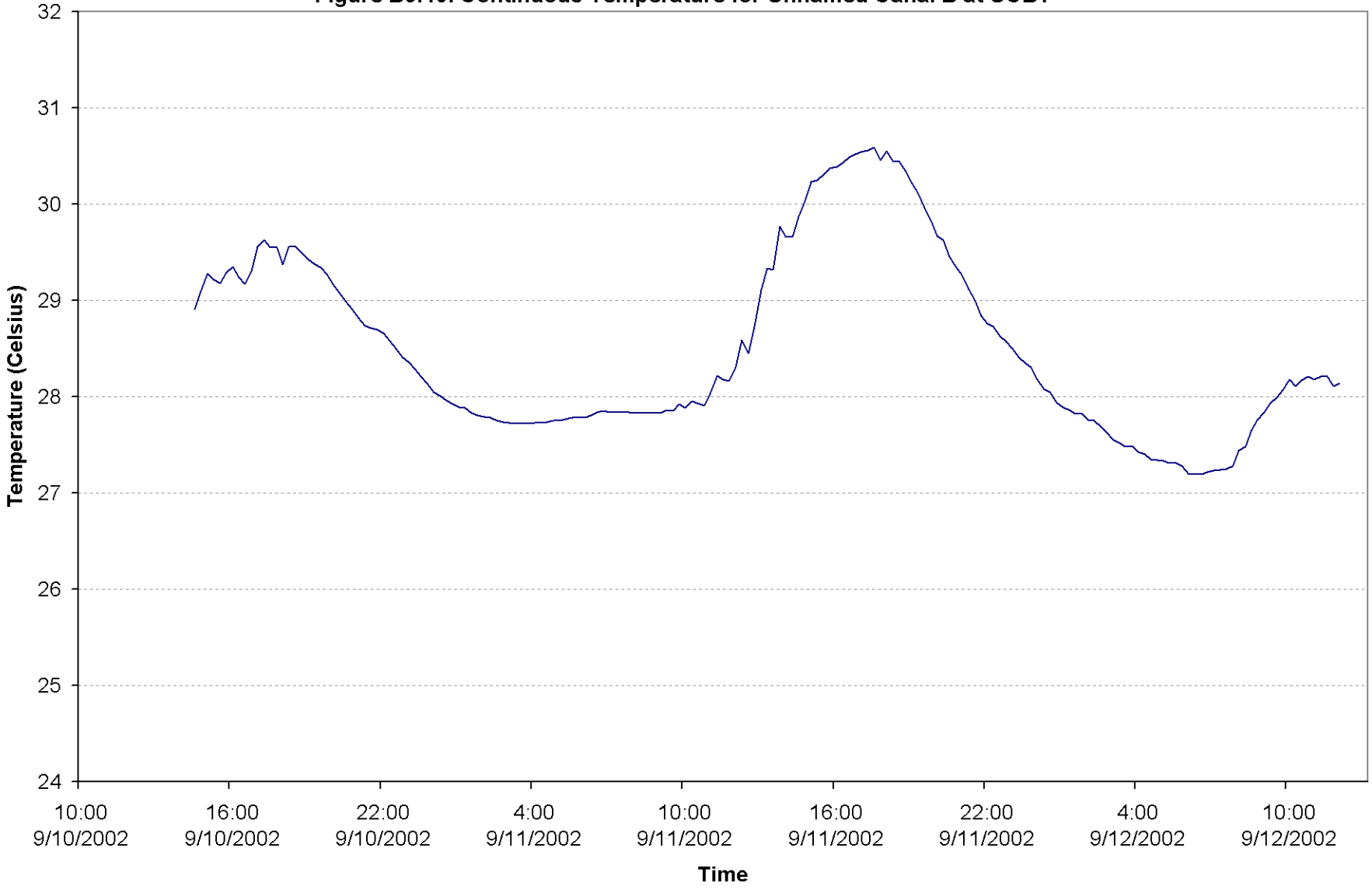


Figure B3.41. Continuous DO for Unnamed Canal B at UCB1

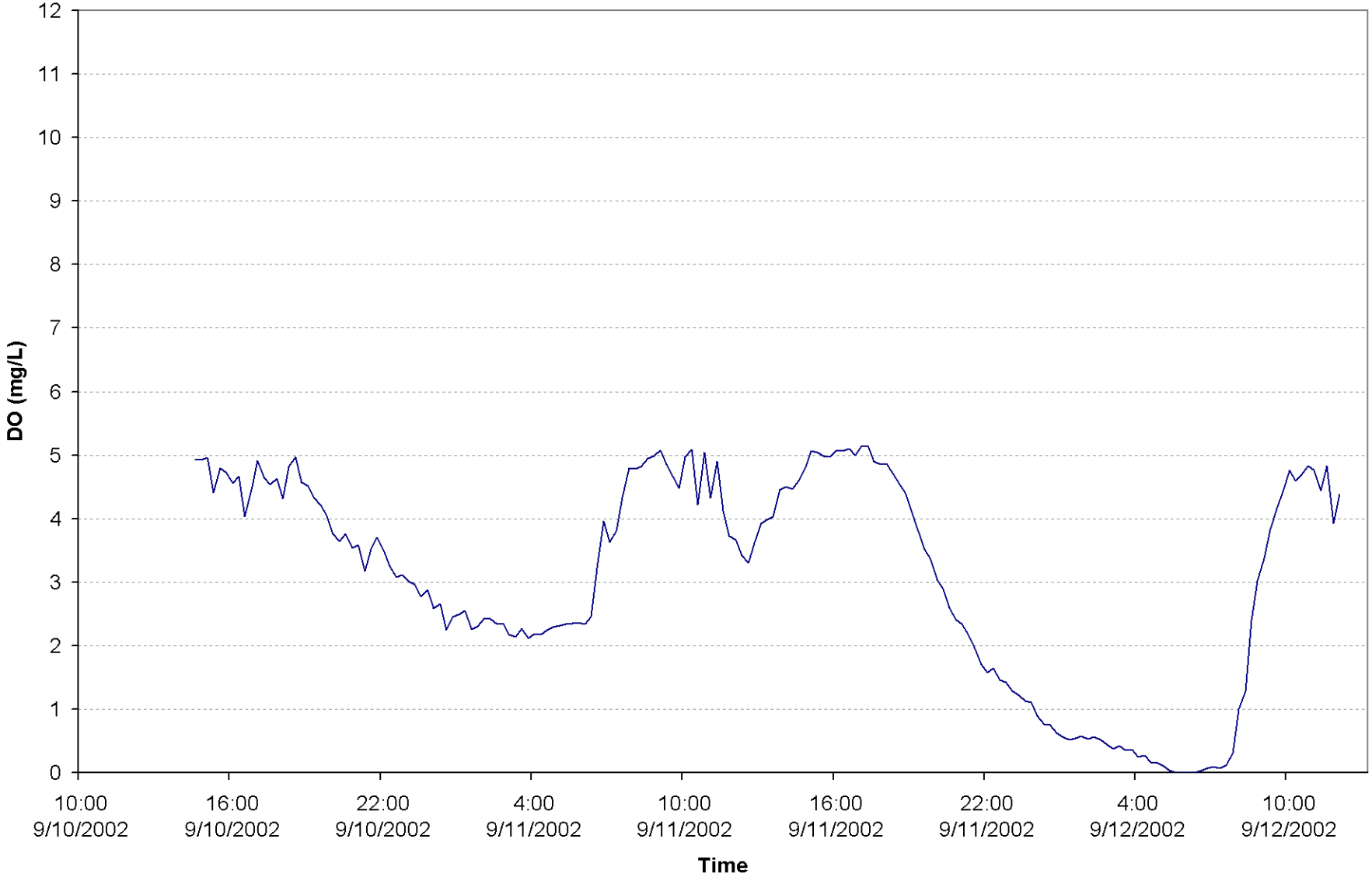


Figure B3.42. Continuous DO Percent Saturation for Unnamed Canal B at UCB1

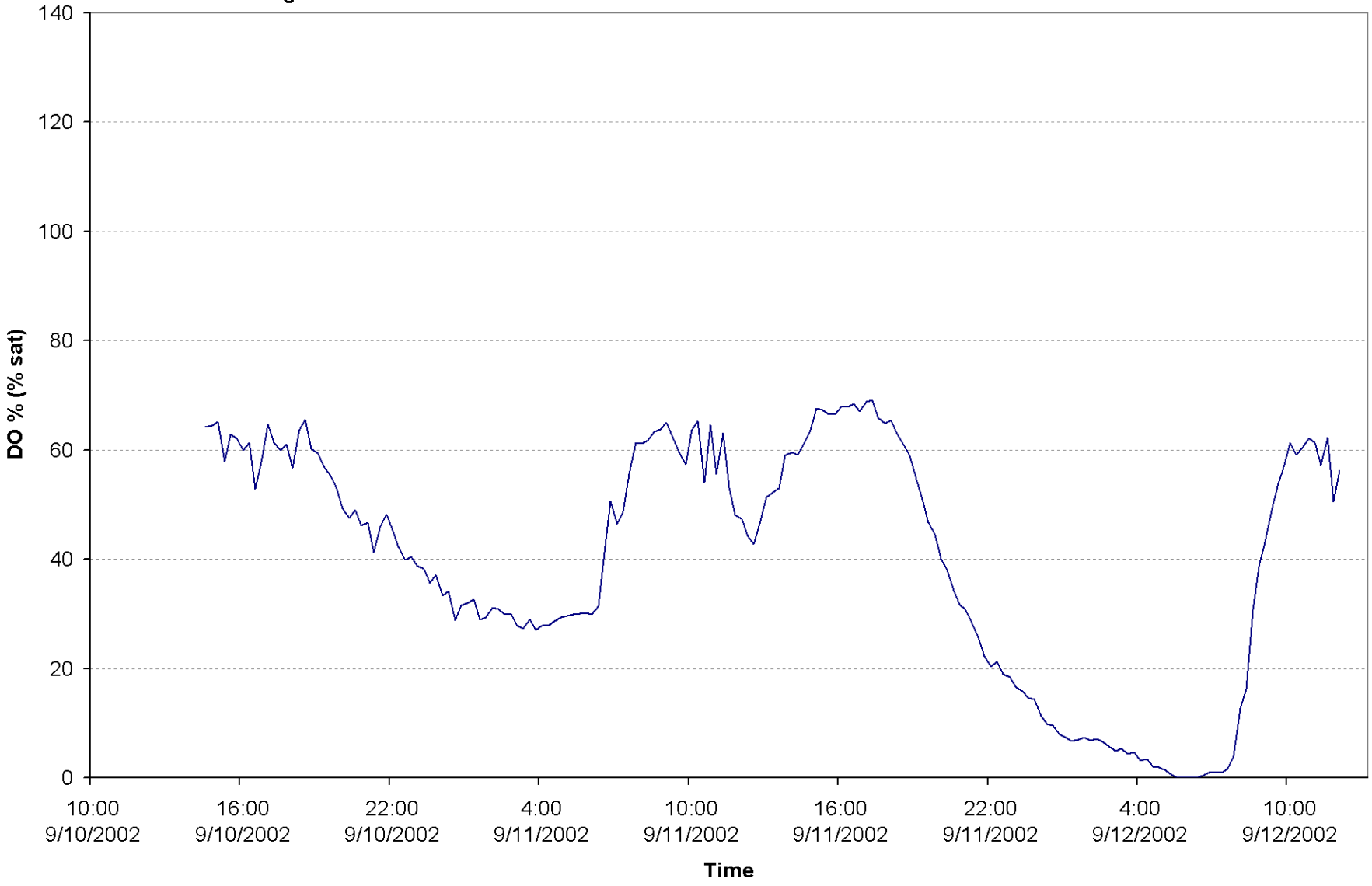


Figure B3.43. Continuous pH for Unnamed Canal B at UCB1

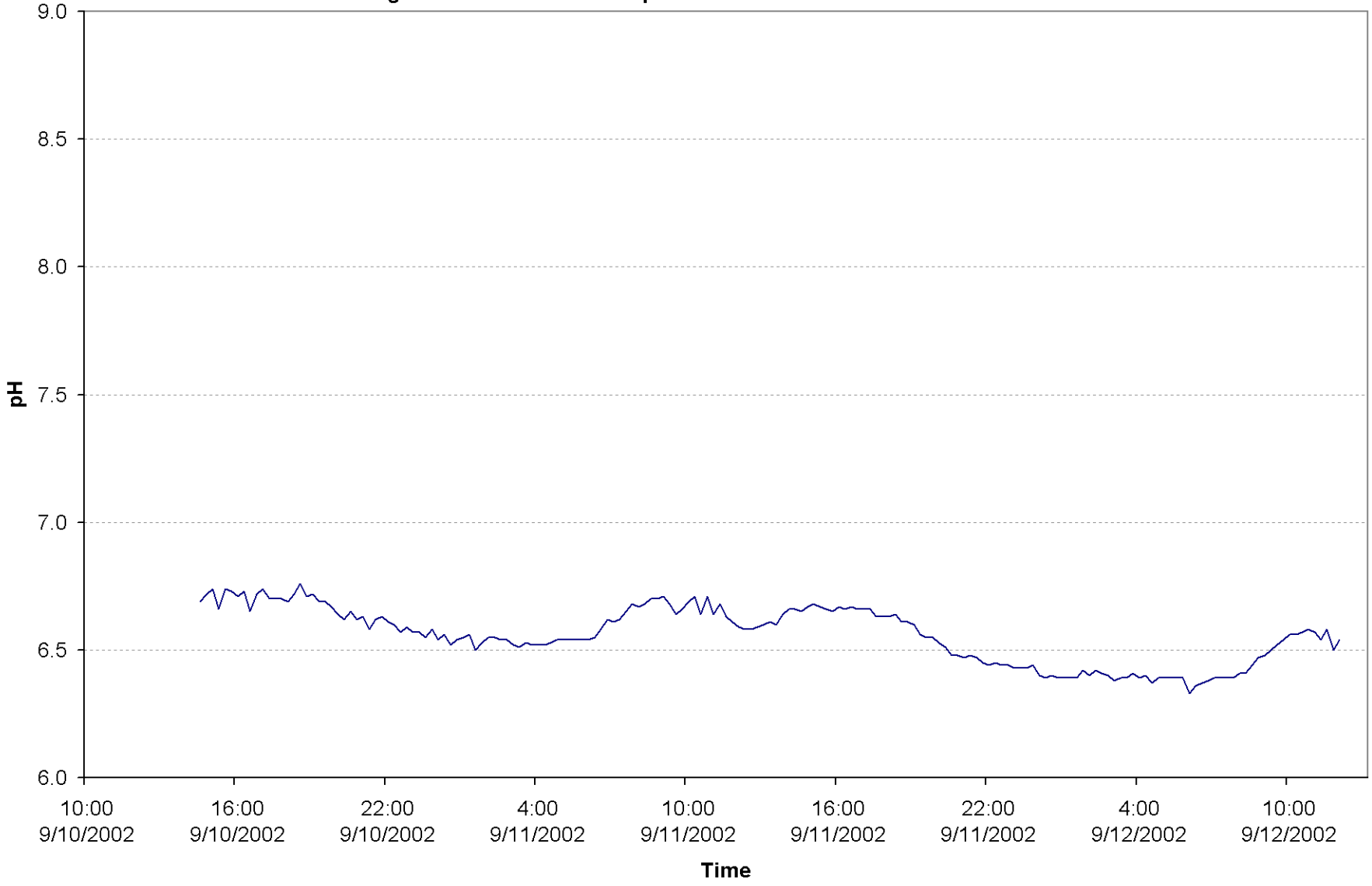


Figure B3.44. Continuous Specific Conductivity for Unnamed Canal B at UCB1

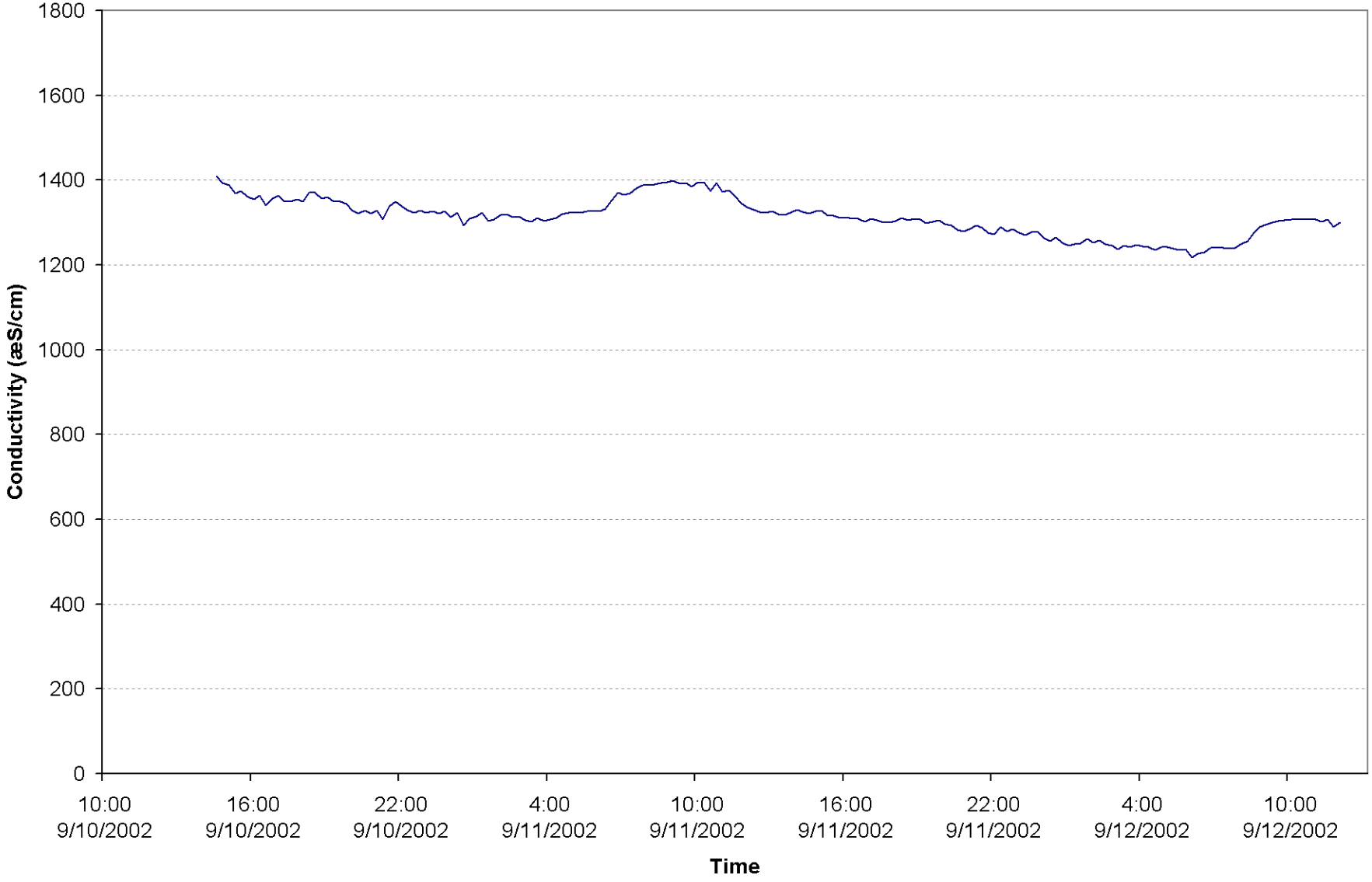


Figure B3.45. Continuous Salinity for Unnamed Canal B at UCB1

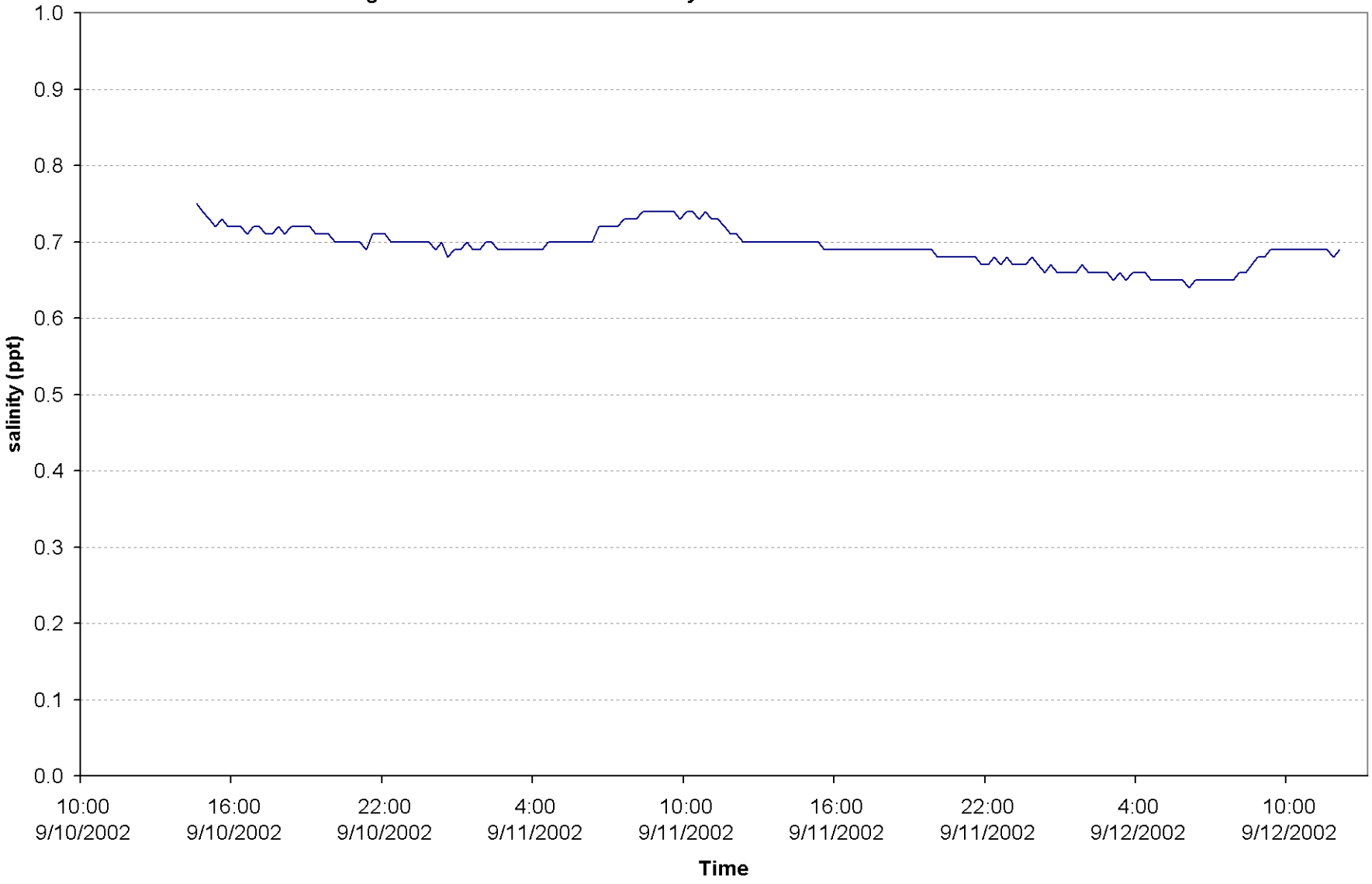
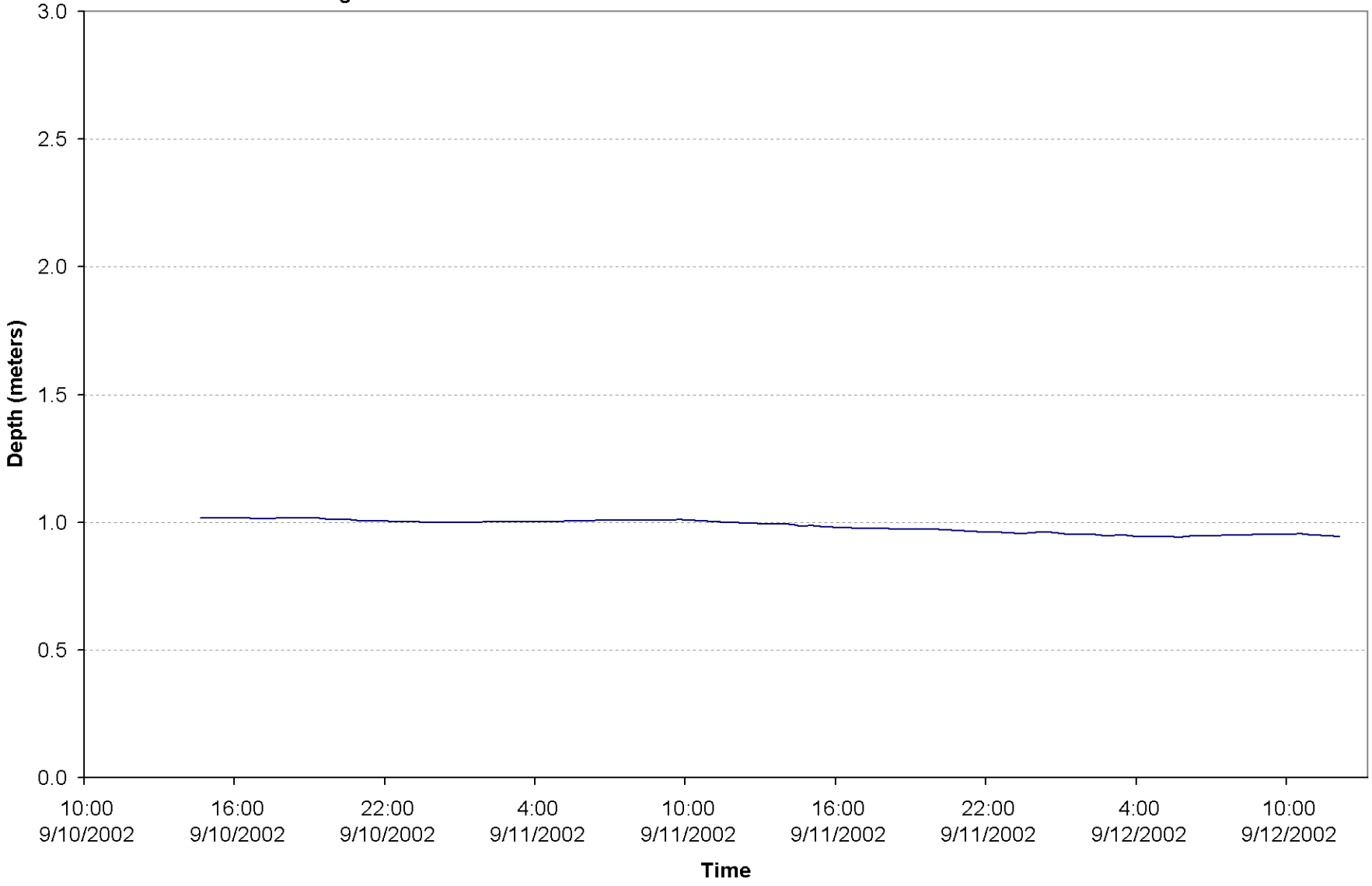


Figure B3.46. Continuous Water Level for Unnamed Canal B at UCB1



APPENDIX B4

Results of BOD Time Series Analyses

Table B4.1. Summary of CBODu values and Rates for Bayou des Allemands.

Sample No.	NBODu (mg/L)	NBODu rate (1/day)	CBODu (mg/L)	CBODu rate (1/day)
BDA1-1.0-1.1 miles upstream of Hwy 90	1.42	0.08	5.59	0.05
BDA3-0.7-0.8 miles downstream of Hwy 90	1.30	0.07	5.67	0.04
BDA5-~ 0.3 miles downstream of NW end of Bayo	0.92	0.09	5.09	0.04
BDA6-~ 0.3 miles upstream of SE end of Bayou	1.52	0.10	6.28	0.07
BDA7-~ 1.7 miles downstream of SE end of Bayo	1.59	0.10	5.93	0.07
BDA8-~ 0.5 miles downstream of Unnamed Canal	0.84	0.07	4.40	0.03
BDA9-Midway between Company Canal & Lake Salv	0.91	0.09	4.72	0.05
BG2-~ midway between NW and SE ends	1.32	0.10	6.50	0.06
DPA1A-~ 0.3 miles SE of opening to Bayou Des A	1.97	0.09	9.83	0.05
CC1A~ 0.3 miles W of opening to Bayou Des Al	0.84	0.10	6.39	0.04
UCA1-~ 0.2 miles S of opening to Bayou Des Al	2.23	0.08	10.84	0.07
UCB1~ 0.3 miles E of opening to Bayou Des Al	1.46	0.09	8.78	0.05
LS-1, Lake Salvador	0.81	0.17	4.40	0.05
	AVG =	0.09		0.05

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Table B4.1 GSBOD Data Collected on Main Stem and Tributaries of Bayou des Allemands.

Instructions for the worksheet:

1. Enter the appropriate data into the green highlighted cells. The 60th or final day analysis data goes into the far right date column. The rest of the analysis data goes in the columns to the left of the 60th or final day values. The NOx data for the analysis start date goes in the NOx section underneath the analysis start date.
2. Click on the "Measured BOD" tab at the bottom of the page and follow that page's instructions. This page can be printed for reporting purposes.

Survey Stream and date: Bayou des Allemands

Sample Collection date:

Analysis Start date: 09/12/02

Total BOD data

Item No.	Sample No.	Daily analysis start dates: 09/12/02				09/13/02	09/16/02	09/18/02	09/20/02	09/23/02	09/27/02	10/02/02	10/11/02	10/22/02	11/01/02	11/12/02
1	BDA1-1.0-1.1 miles upstream of Hwy 90					0.4	1.4	1.7	2.0	2.5	3.3	4.0	4.9	5.7	6.5	7.0
2	BDA3-0.7-0.8 miles downstream of Hwy 90					0.2	0.9	1.3	1.6	2.3	2.9	3.5	4.4	5.2	6.0	6.5
3	BDA5-~ 0.3 miles downstream of NW end of Bayo					0.2	1.2	1.5	1.7	2.2	2.6	3.2	4.0	4.8	5.5	5.9
4	BDA6-~ 0.3 miles upstream of SE end of Bayou					0.5	2.1	2.6	3.0	3.6	4.4	5.2	6.3	7.1	7.8	8.2
5	BDA7-~ 1.7 miles downstream of SE end of Bayo					0.5	2.2	2.5	2.9	3.5	4.2	5.0	6.0	6.9	7.5	8.0
6	BDA8-~ 0.5 miles downstream of Unnamed Canal					0.2	0.7	1.0	1.1	1.5	1.8	2.3	3.1	3.7	4.3	4.7
7	BDA9-Midway between Company Canal & Lake Salv					0.2	1.1	1.4	1.7	2.2	2.5	3.1	3.9	4.6	5.2	5.6
8	BG2-~ midway between NW and SE ends					0.4	1.8	2.4	2.7	3.6	4.1	4.9	6.0	6.8	7.5	8.1
9	DPA1A-~ 0.3 miles SE of opening to Bayou Des A					0.4	2.3	3.2	3.8	5.0	6.1	7.3	8.9	10.2	11.2	11.8
10	CC1A~ 0.3 miles W of opening to Bayou Des Al					0.2	1.1	1.5	1.8	2.5	3.0	3.7	4.6	5.4	6.2	6.8
11	UCA1-~ 0.2 miles S of opening to Bayou Des Al					0.7	3.4	4.4	5.4	6.8	7.8	8.9	10.4	11.8	12.8	13.6
12	UCB1~ 0.3 miles E of opening to Bayou Des Al					0.4	2.0	2.6	3.1	4.3	5.3	6.3	7.6	8.7	9.5	10.2
13	LS-1, Lake Salvador					0.2	0.9	1.3	1.6	2.1	2.3	2.8	3.6	4.4	4.8	5.3
14																
15																

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

Item No.	Sample No.	Daily analysis start dates: 09/12/02				09/13/02	09/16/02	09/18/02	09/20/02	09/23/02	09/27/02	10/02/02	10/11/02	10/22/02	11/01/02	11/12/02
1	BDA1-1.0-1.1 miles upstream of Hwy 90	0.24				0.24	0.24	0.25	0.25	0.28	0.39	0.42	0.47	0.55	0.53	0.55
2	BDA3-0.7-0.8 miles downstream of Hwy 90	0.24				0.24	0.24	0.25	0.25	0.29	0.38	0.40	0.46	0.50	0.51	0.52
3	BDA5-~ 0.3 miles downstream of NW end of Bayo	0.21				0.21	0.21	0.21	0.21	0.22	0.28	0.33	0.37	0.41	0.40	0.41
4	BDA6-~ 0.3 miles upstream of SE end of Bayou	0.20				0.20	0.20	0.20	0.20	0.22	0.34	0.41	0.48	0.52	0.52	0.54
5	BDA7-~ 1.7 miles downstream of SE end of Bayo	0.19				0.19	0.19	0.20	0.19	0.20	0.31	0.39	0.48	0.52	0.52	0.54
6	BDA8-~ 0.5 miles downstream of Unnamed Canal	0.19				0.19	0.19	0.19	0.19	0.20	0.24	0.28	0.33	0.35	0.36	0.37
7	BDA9-Midway between Company Canal & Lake Salv	0.15				0.15	0.15	0.15	0.15	0.16	0.21	0.26	0.31	0.33	0.34	0.35
8	BG2-~ midway between NW and SE ends	0.20				0.20	0.20	0.21	0.21	0.27	0.36	0.39	0.45	0.48	0.48	0.49
9	DPA1A-~ 0.3 miles SE of opening to Bayou Des A	0.10				0.10	0.10	0.10	0.11	0.18	0.31	0.37	0.45	0.50	0.52	0.54
10	CC1A~ 0.3 miles W of opening to Bayou Des Al	0.13				0.13	0.13	0.13	0.14	0.16	0.21	0.26	0.28	0.30	0.31	0.32
11	UCA1-~ 0.2 miles S of opening to Bayou Des Al	0.09				0.09	0.11	0.15	0.21	0.32	0.39	0.42	0.50	0.53	0.58	0.58
12	UCB1~ 0.3 miles E of opening to Bayou Des Al	0.08				0.09	0.09	0.09	0.10	0.15	0.25	0.30	0.35	0.38	0.37	0.42
13	LS-1, Lake Salvador	0.20				0.20	0.20	0.20	0.20	0.21	0.22	0.26	0.35	0.37	0.38	0.38
14																
15																

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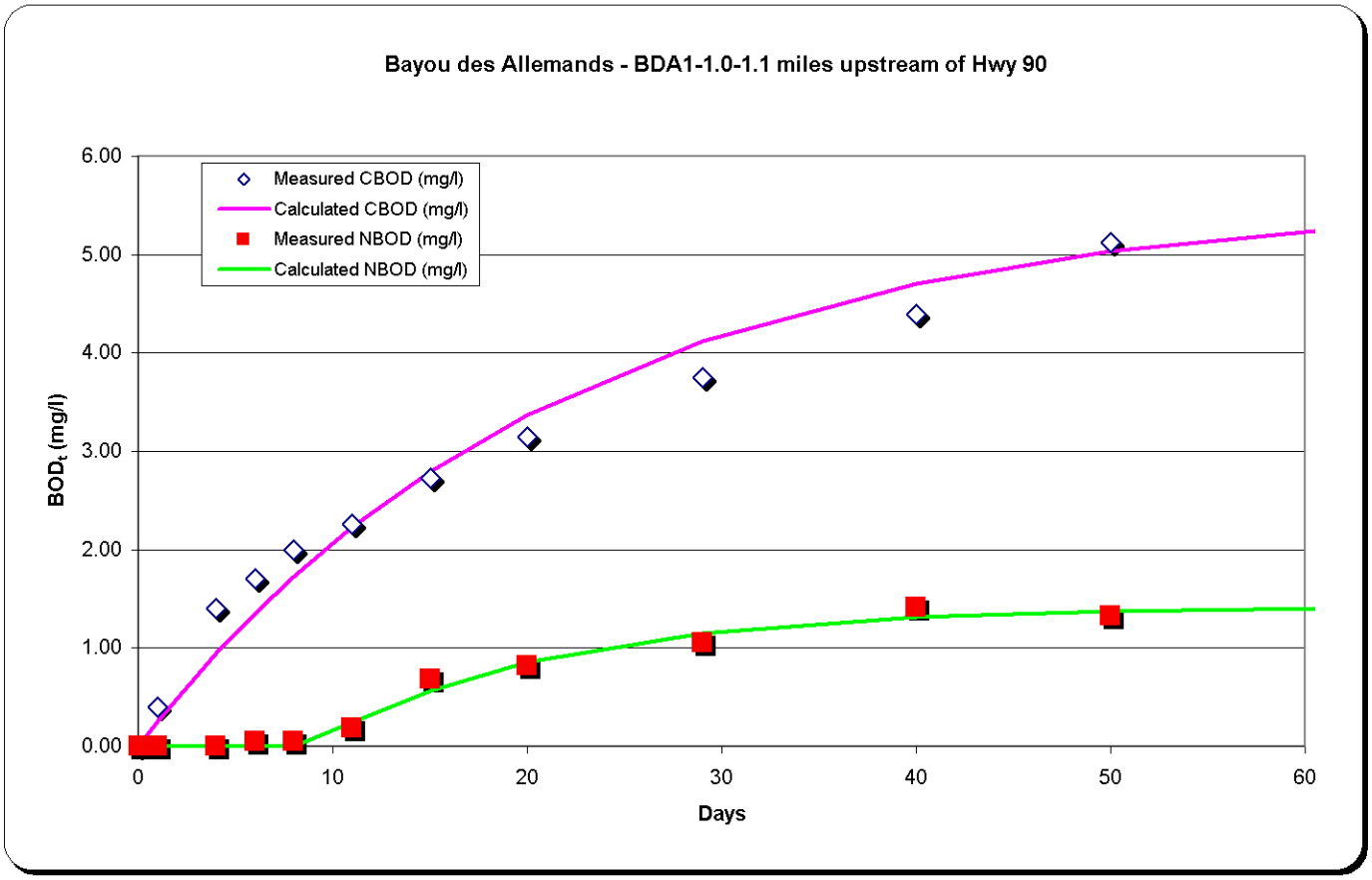
BOD Analysis of the for: **Bayou des Allemands - BDA1-1.0-1.1 miles upstream of Hwy 90**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.24				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.4	0.24	0.00	0.40	0.00	0.25
4	1.4	0.24	0.00	1.40	0.00	0.94
6	1.7	0.25	0.05	1.70	0.00	1.35
8	2.0	0.25	0.05	2.00	0.00	1.73
11	2.5	0.28	0.18	2.26	0.24	2.23
15	3.3	0.39	0.69	2.73	0.57	2.79
20	4.0	0.42	0.82	3.14	0.86	3.37
29	4.9	0.47	1.05	3.75	1.15	4.12
40	5.7	0.55	1.42	4.39	1.31	4.71
50	6.5	0.53	1.33	5.13	1.37	5.03
61	7.0	0.55	1.42	5.60	1.40	5.25

1.42	5.59	**UBOD (mg/l)**
0.08	0.05	**k rate (1/day)**
8.75	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

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

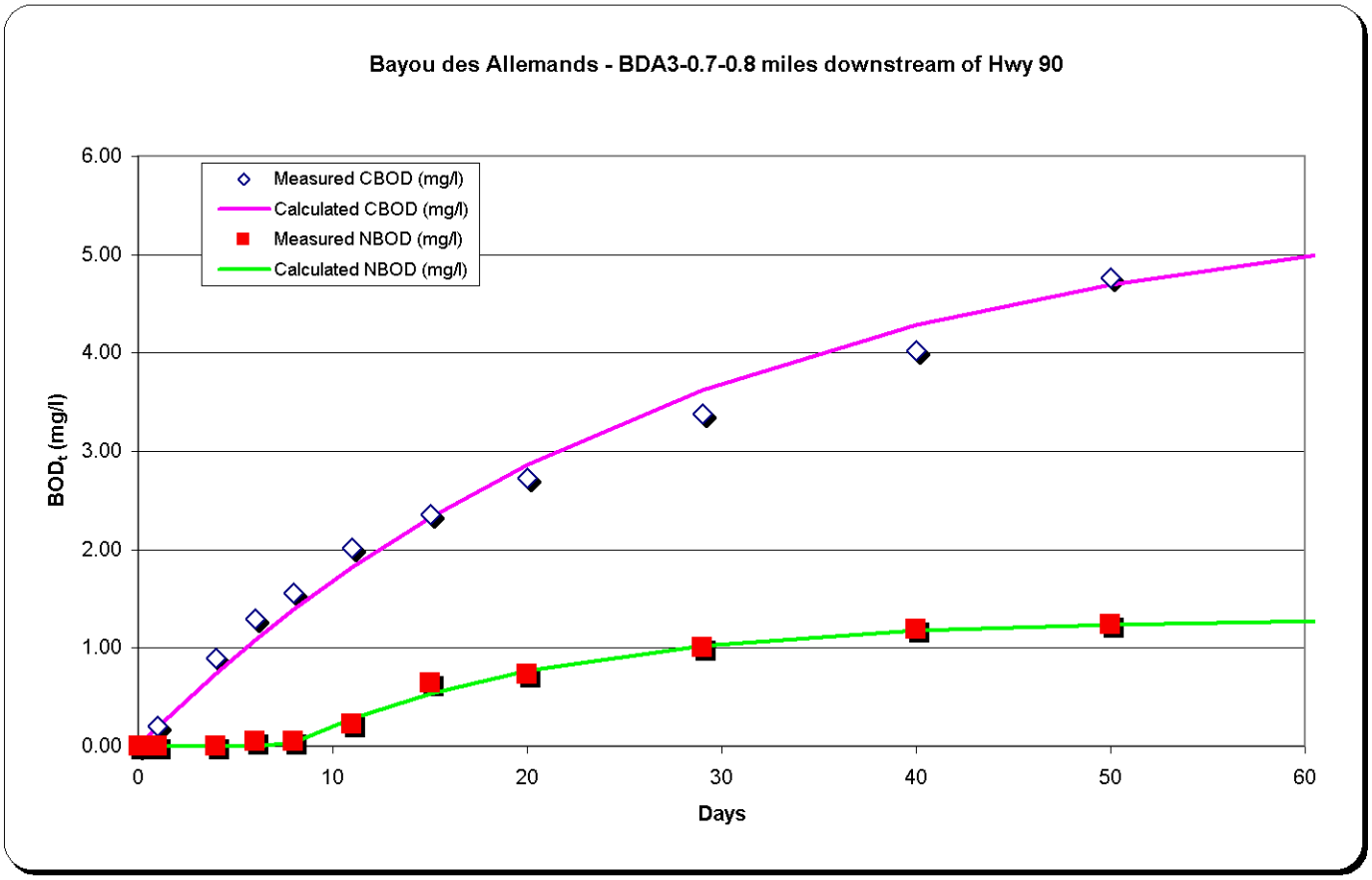
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Bayou des Allemands - BDA3-0.7-0.8 miles downstream of Hwy 90**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.24				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.2	0.24	0.00	0.20	0.00	0.20
4	0.9	0.24	0.00	0.90	0.00	0.74
6	1.3	0.25	0.05	1.30	0.00	1.08
8	1.6	0.25	0.05	1.56	0.04	1.39
11	2.3	0.29	0.23	2.01	0.29	1.82
15	2.9	0.38	0.64	2.36	0.54	2.33
20	3.5	0.40	0.73	2.73	0.77	2.86
29	4.4	0.46	1.01	3.38	1.02	3.63
40	5.2	0.50	1.19	4.02	1.18	4.28
50	6.0	0.51	1.23	4.76	1.24	4.69
61	6.5	0.52	1.28	5.22	1.28	5.01

1.30	5.67	**UBOD (mg/l)**
0.07	0.04	**k rate (1/day)**
7.55	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

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

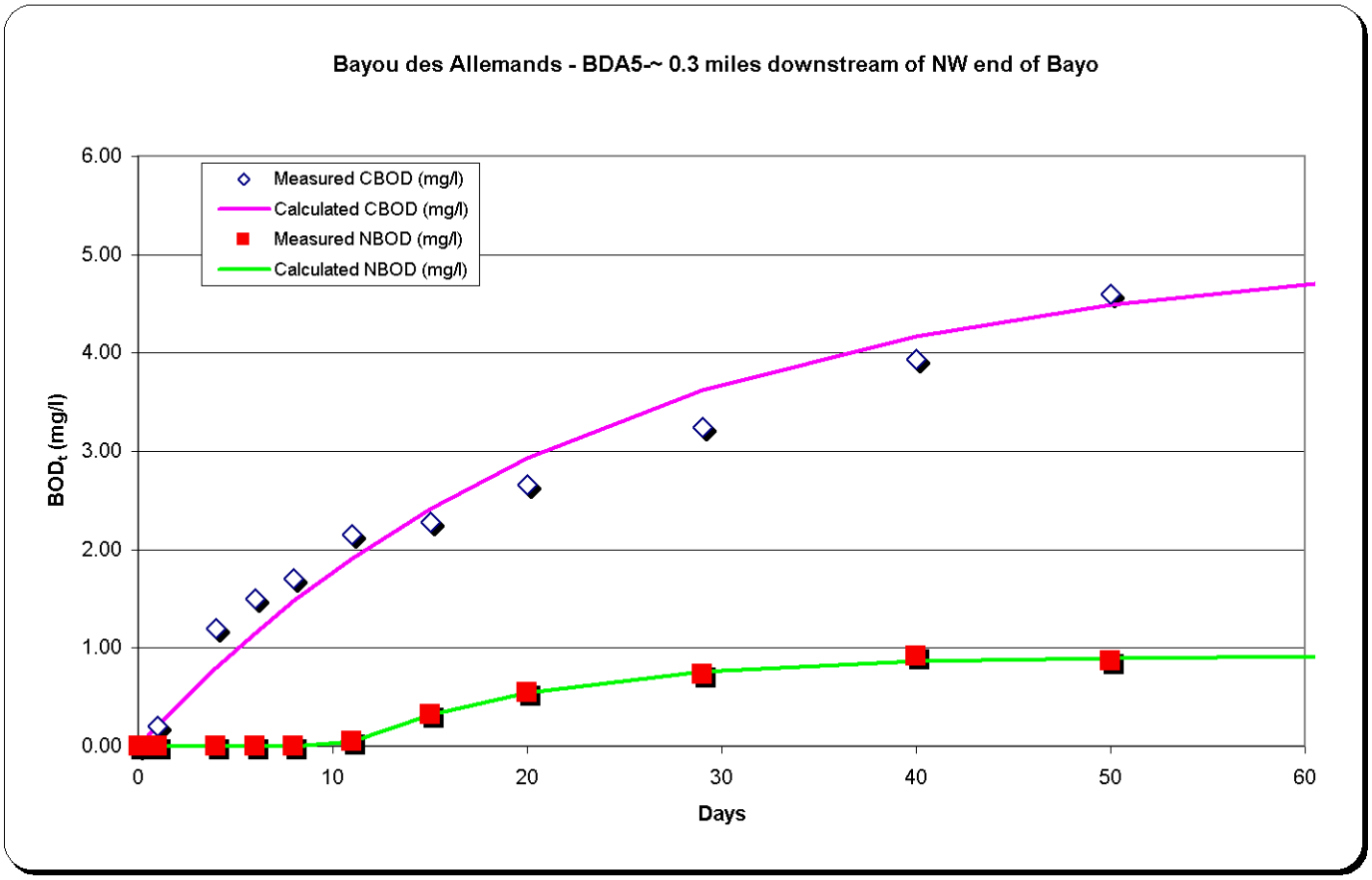
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Bayou des Allemands - BDA5-~ 0.3 miles downstream of NW end of Bayo**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.21				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.2	0.21	0.00	0.20	0.00	0.21
4	1.2	0.21	0.00	1.20	0.00	0.80
6	1.5	0.21	0.00	1.50	0.00	1.15
8	1.7	0.21	0.00	1.70	0.00	1.48
11	2.2	0.22	0.05	2.15	0.05	1.91
15	2.6	0.28	0.32	2.28	0.32	2.41
20	3.2	0.33	0.55	2.66	0.54	2.93
29	4.0	0.37	0.73	3.24	0.76	3.62
40	4.8	0.41	0.91	3.94	0.86	4.17
50	5.5	0.40	0.87	4.60	0.90	4.49
61	5.9	0.41	0.91	4.99	0.91	4.72

0.92	5.09	**UBOD (mg/l)**
0.09	0.04	**k rate (1/day)**
10.45	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

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

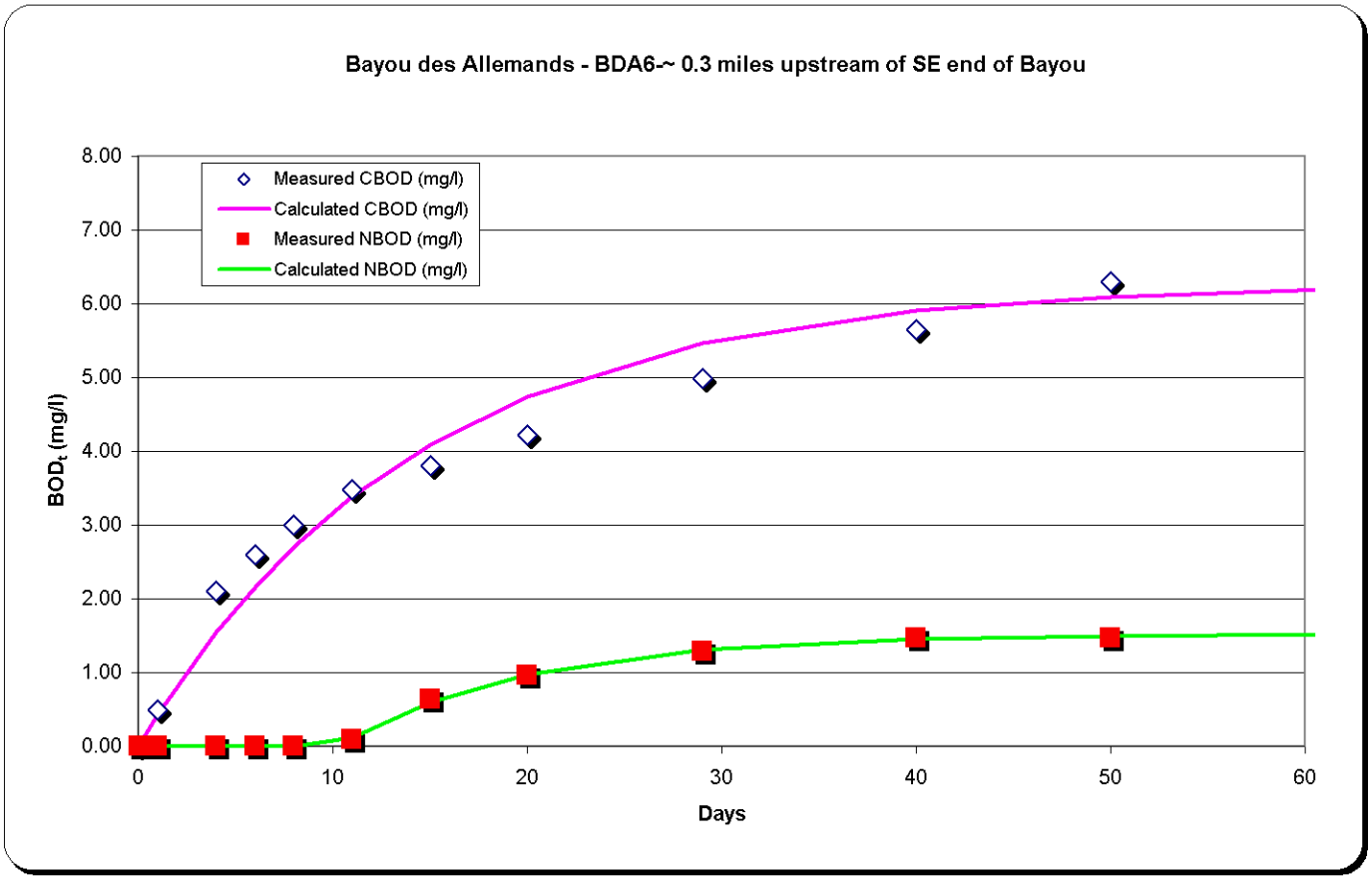
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Bayou des Allemands - BDA6-~ 0.3 miles upstream of SE end of Bayou**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.20				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.5	0.20	0.00	0.50	0.00	0.43
4	2.1	0.20	0.00	2.10	0.00	1.54
6	2.6	0.20	0.00	2.60	0.00	2.16
8	3.0	0.20	0.00	3.00	0.00	2.70
11	3.6	0.22	0.09	3.49	0.11	3.38
15	4.4	0.34	0.64	3.80	0.60	4.09
20	5.2	0.41	0.96	4.23	0.97	4.74
29	6.3	0.48	1.28	4.99	1.31	5.46
40	7.1	0.52	1.46	5.64	1.46	5.90
50	7.8	0.52	1.46	6.30	1.50	6.10
61	8.2	0.54	1.55	6.68	1.52	6.20

1.52	6.28	**UBOD (mg/l)**
0.10	0.07	**k rate (1/day)**
10.26	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

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

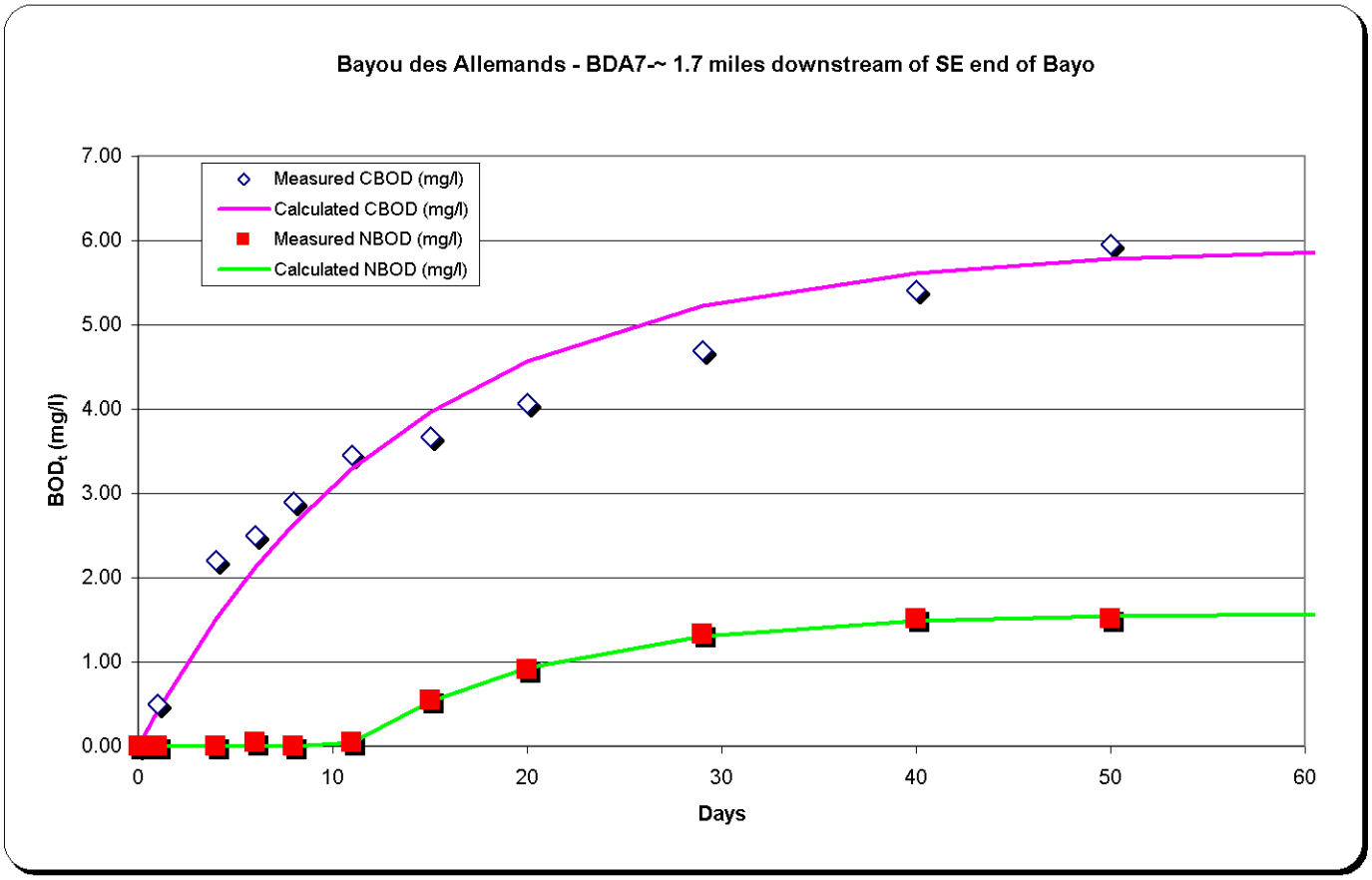
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Bayou des Allemands - BDA7-~ 1.7 miles downstream of SE end of Bayo**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.19				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.5	0.19	0.00	0.50	0.00	0.42
4	2.2	0.19	0.00	2.20	0.00	1.51
6	2.5	0.20	0.05	2.50	0.00	2.12
8	2.9	0.19	0.00	2.90	0.00	2.64
11	3.5	0.20	0.05	3.45	0.05	3.29
15	4.2	0.31	0.55	3.67	0.53	3.97
20	5.0	0.39	0.91	4.07	0.93	4.57
29	6.0	0.48	1.33	4.69	1.31	5.23
40	6.9	0.52	1.51	5.41	1.49	5.62
50	7.5	0.52	1.51	5.95	1.55	5.78
61	8.0	0.54	1.60	6.43	1.57	5.86

1.59	5.93	**UBOD (mg/l)**
0.10	0.07	**k rate (1/day)**
10.69	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

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

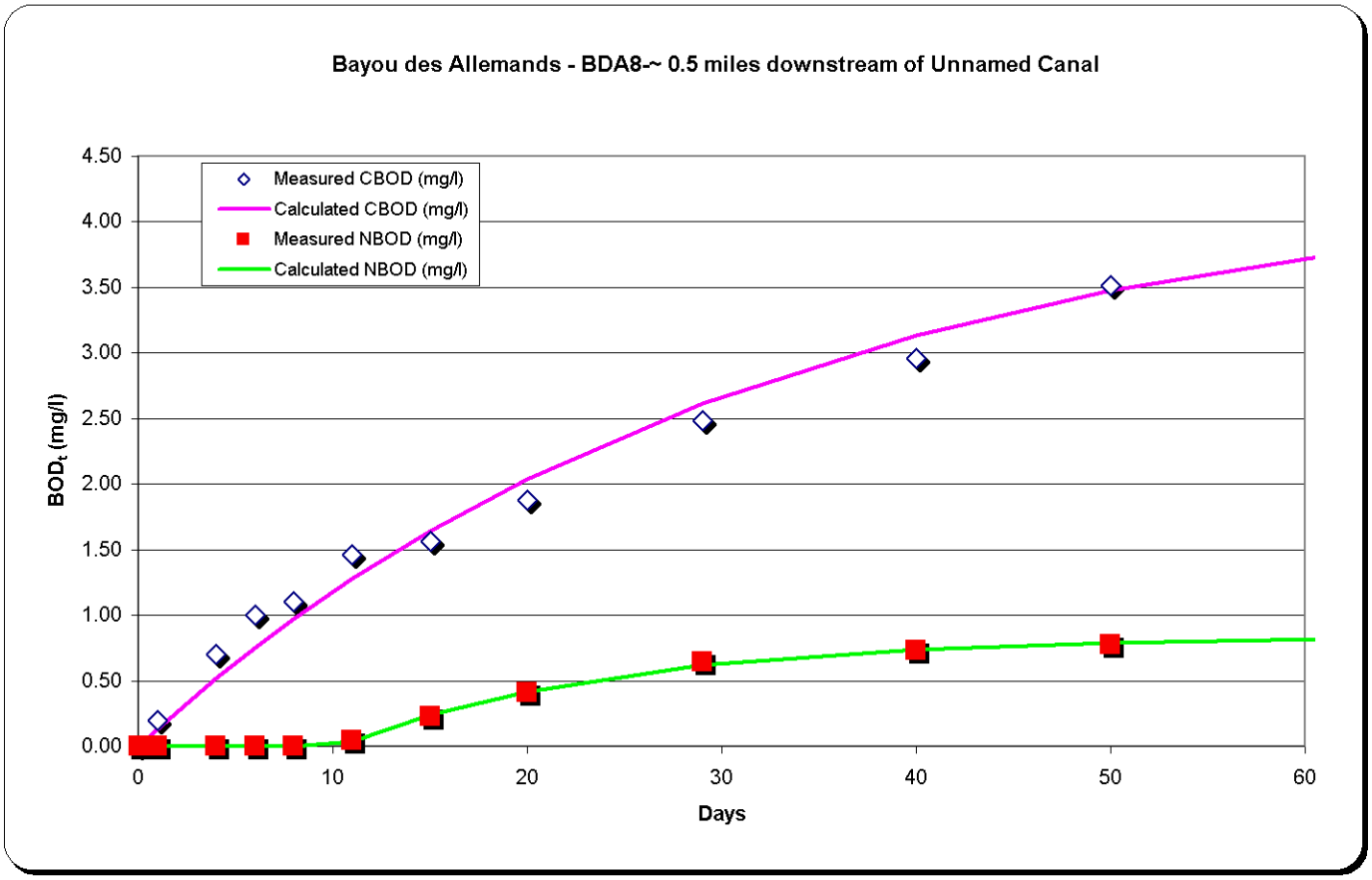
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Bayou des Allemands - BDA8-~ 0.5 miles downstream of Unnamed Canal**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.19				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.2	0.19	0.00	0.20	0.00	0.14
4	0.7	0.19	0.00	0.70	0.00	0.52
6	1.0	0.19	0.00	1.00	0.00	0.75
8	1.1	0.19	0.00	1.10	0.00	0.97
11	1.5	0.20	0.05	1.46	0.04	1.28
15	1.8	0.24	0.23	1.56	0.24	1.64
20	2.3	0.28	0.41	1.88	0.42	2.04
29	3.1	0.33	0.64	2.48	0.62	2.62
40	3.7	0.35	0.73	2.96	0.74	3.14
50	4.3	0.36	0.78	3.51	0.79	3.47
61	4.7	0.37	0.82	3.88	0.82	3.74

0.84	4.40	**UBOD (mg/l)**
0.07	0.03	**k rate (1/day)**
10.34	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

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

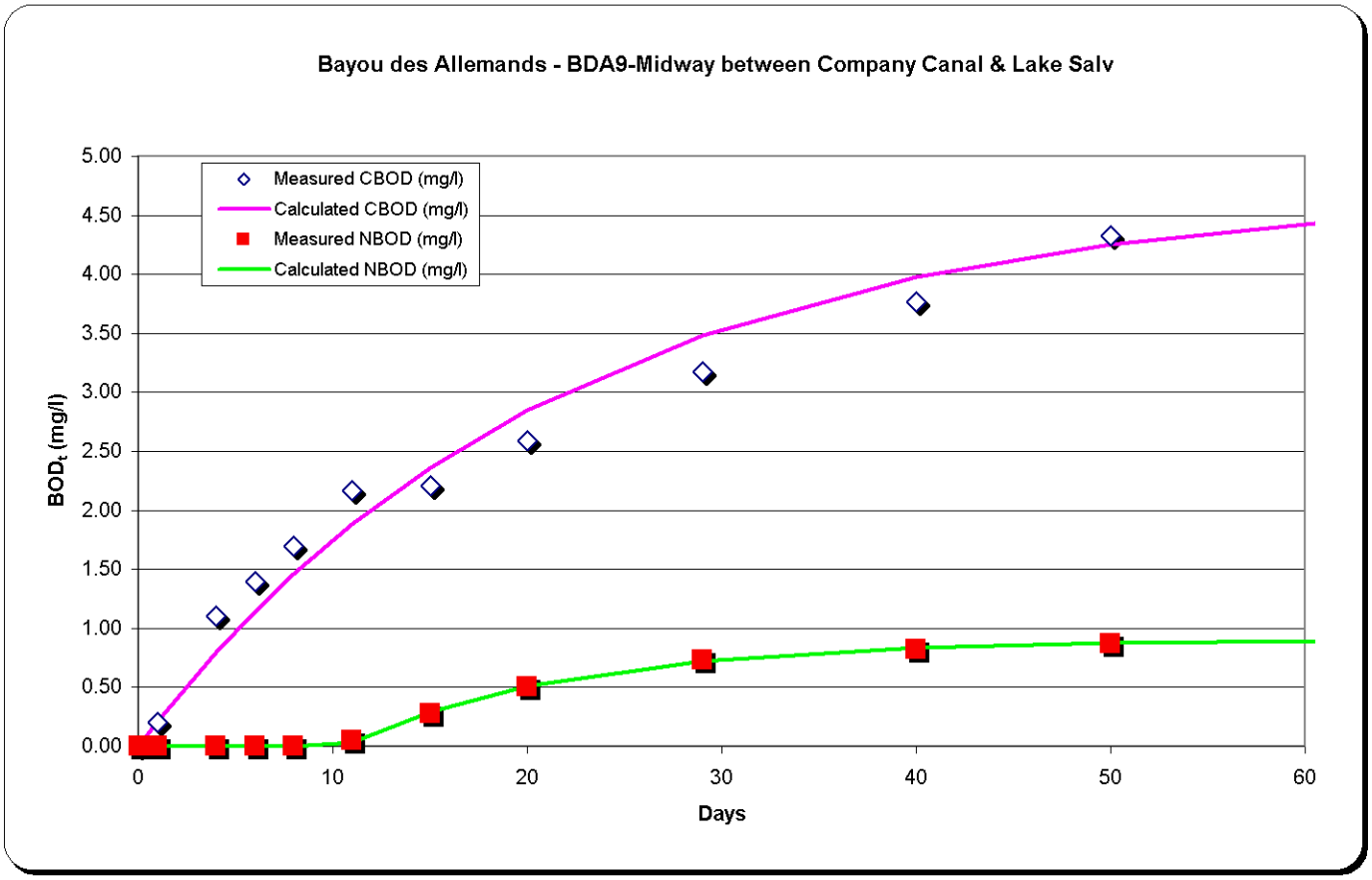
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Bayou des Allemands - BDA9-Midway between Company Canal & Lake Salv**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.15				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.2	0.15	0.00	0.20	0.00	0.21
4	1.1	0.15	0.00	1.10	0.00	0.80
6	1.4	0.15	0.00	1.40	0.00	1.14
8	1.7	0.15	0.00	1.70	0.00	1.46
11	2.2	0.16	0.05	2.17	0.03	1.88
15	2.5	0.21	0.27	2.21	0.29	2.36
20	3.1	0.26	0.50	2.59	0.51	2.85
29	3.9	0.31	0.73	3.17	0.73	3.49
40	4.6	0.33	0.82	3.76	0.84	3.98
50	5.2	0.34	0.87	4.32	0.88	4.25
61	5.6	0.35	0.91	4.70	0.90	4.44

0.91	4.72	**UBOD (mg/l)**
0.09	0.05	**k rate (1/day)**
10.60	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

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

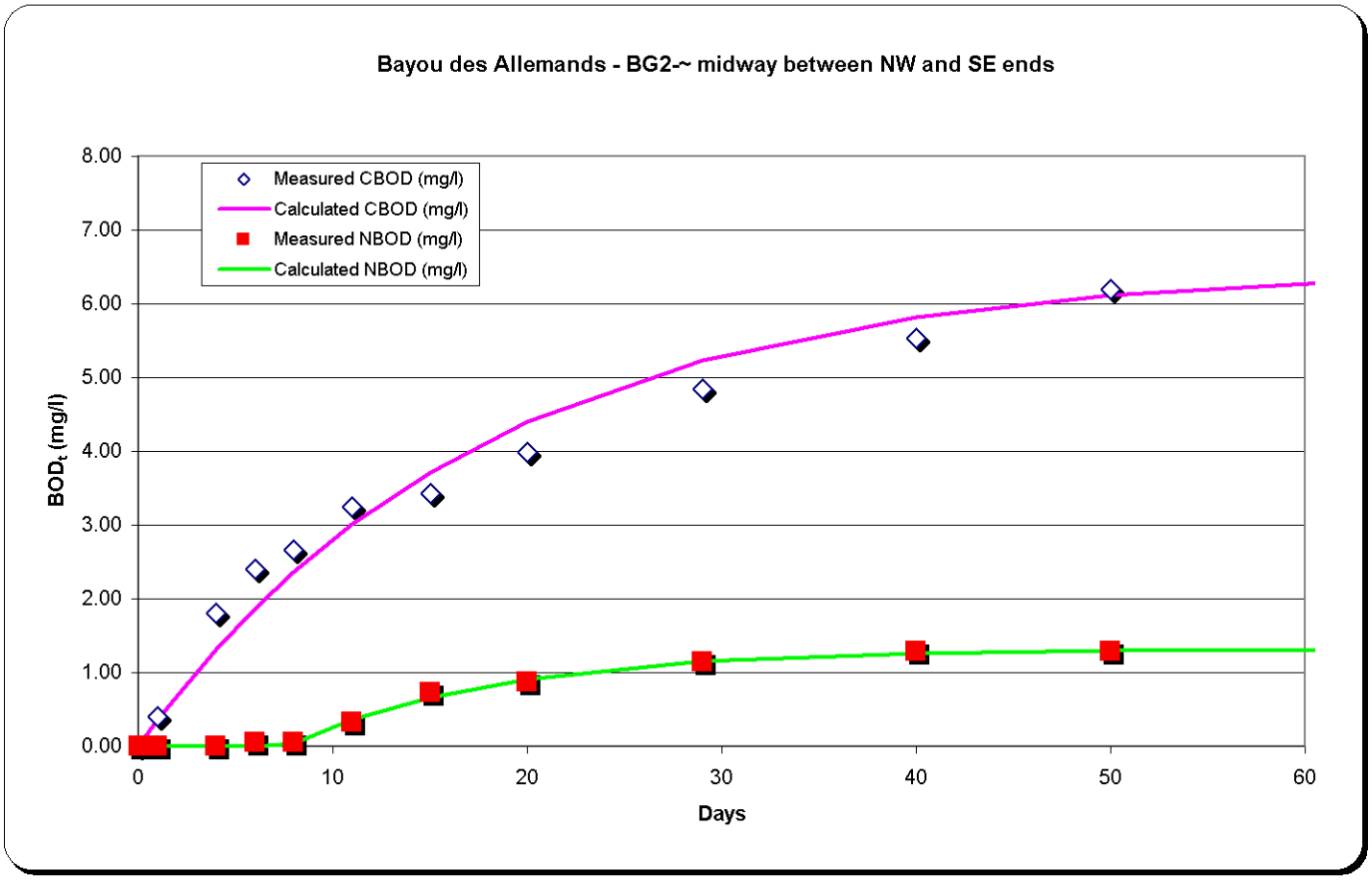
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Bayou des Allemands - BG2-~ midway between NW and SE ends**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.20				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.4	0.20	0.00	0.40	0.00	0.36
4	1.8	0.20	0.00	1.80	0.00	1.32
6	2.4	0.21	0.05	2.40	0.00	1.87
8	2.7	0.21	0.05	2.66	0.04	2.36
11	3.6	0.27	0.32	3.24	0.36	3.01
15	4.1	0.36	0.73	3.43	0.67	3.71
20	4.9	0.39	0.87	3.99	0.91	4.40
29	6.0	0.45	1.14	4.85	1.15	5.24
40	6.8	0.48	1.28	5.54	1.26	5.82
50	7.5	0.48	1.28	6.20	1.30	6.11
61	8.1	0.49	1.33	6.79	1.31	6.29

1.32	6.50	**UBOD (mg/l)**
0.10	0.06	**k rate (1/day)**
7.68	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

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

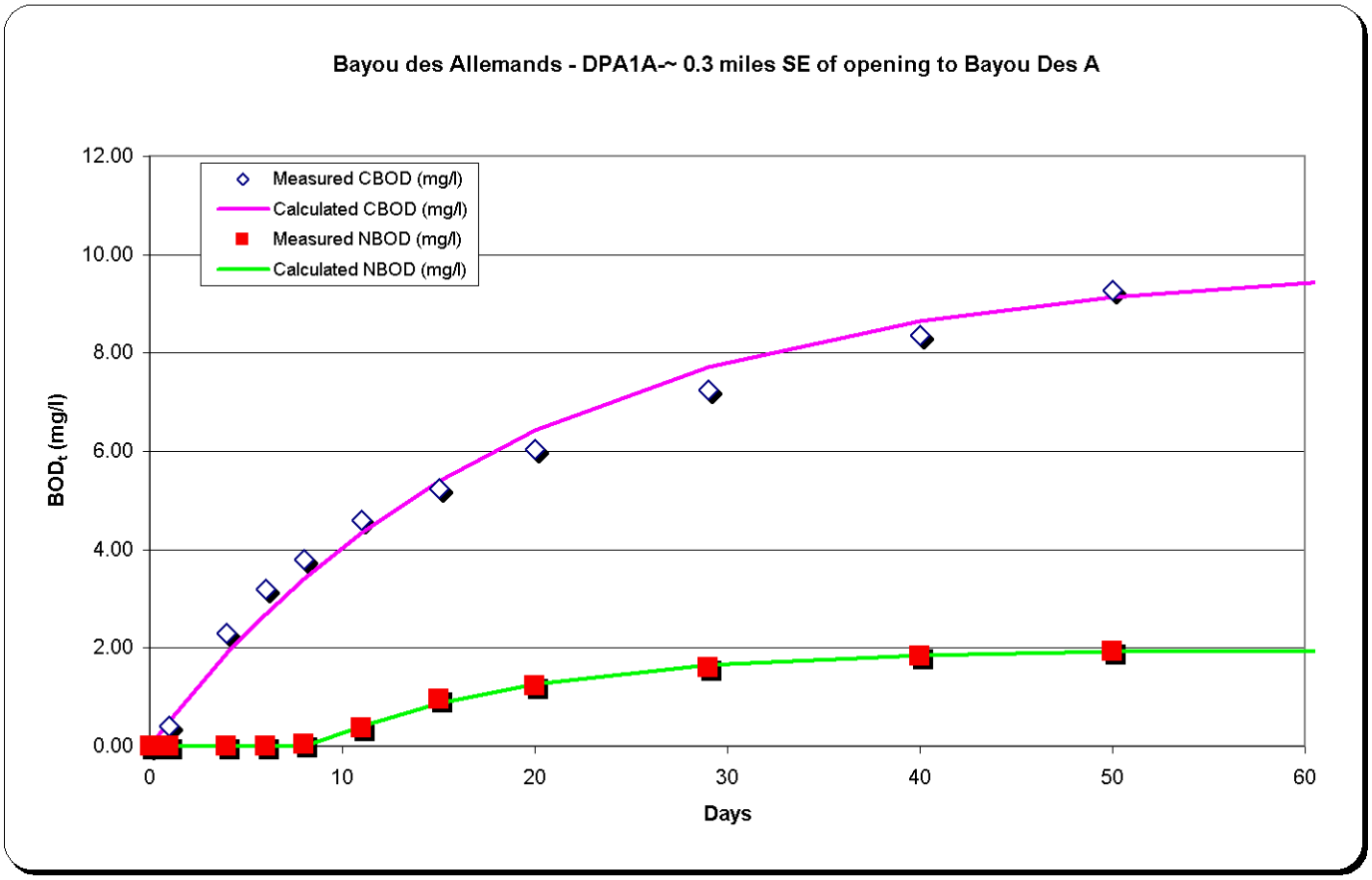
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Bayou des Allemands - DPA1A-~ 0.3 miles SE of opening to Bayou Des A**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.10				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.4	0.10	0.00	0.40	0.00	0.51
4	2.3	0.10	0.00	2.30	0.00	1.88
6	3.2	0.10	0.00	3.20	0.00	2.68
8	3.8	0.11	0.05	3.80	0.00	3.40
11	5.0	0.18	0.37	4.59	0.41	4.35
15	6.1	0.31	0.96	5.23	0.87	5.40
20	7.3	0.37	1.23	6.04	1.26	6.43
29	8.9	0.45	1.60	7.25	1.65	7.72
40	10.2	0.50	1.83	8.35	1.85	8.65
50	11.2	0.52	1.92	9.28	1.92	9.14
61	11.8	0.54	2.01	9.85	1.95	9.44

1.97	9.83	**UBOD (mg/l)**
0.09	0.05	**k rate (1/day)**
8.36	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

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

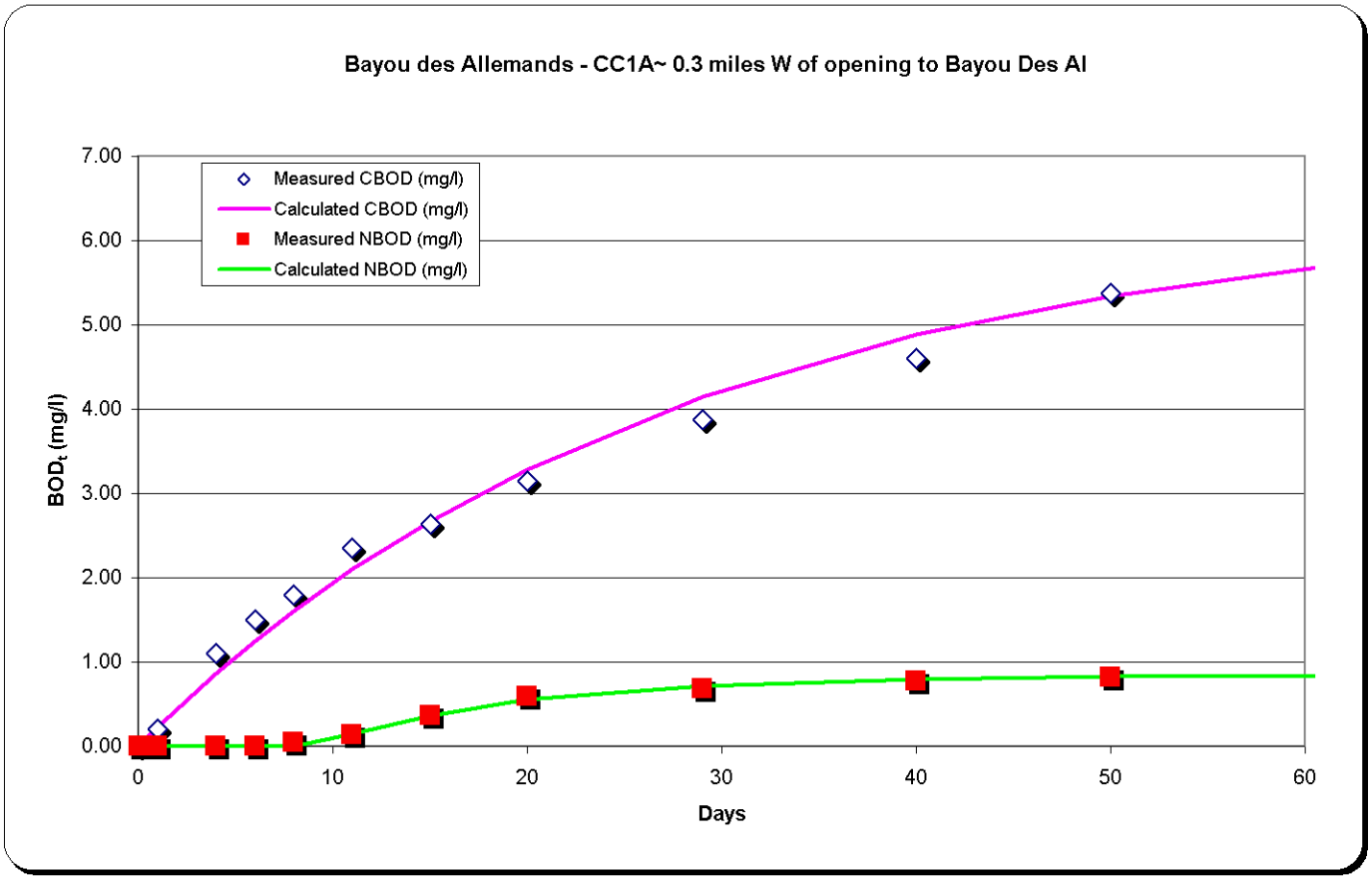
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Bayou des Allemands - CC1A~ 0.3 miles W of opening to Bayou Des Al**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.13				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.2	0.13	0.00	0.20	0.00	0.23
4	1.1	0.13	0.00	1.10	0.00	0.86
6	1.5	0.13	0.00	1.50	0.00	1.25
8	1.8	0.14	0.05	1.80	0.00	1.60
11	2.5	0.16	0.14	2.36	0.14	2.10
15	3.0	0.21	0.37	2.63	0.37	2.67
20	3.7	0.26	0.59	3.15	0.55	3.29
29	4.6	0.28	0.69	3.88	0.72	4.15
40	5.4	0.30	0.78	4.60	0.80	4.89
50	6.2	0.31	0.82	5.37	0.83	5.34
61	6.8	0.32	0.87	5.96	0.84	5.69

0.84	6.39	**UBOD (mg/l)**
0.10	0.04	**k rate (1/day)**
9.09	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

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

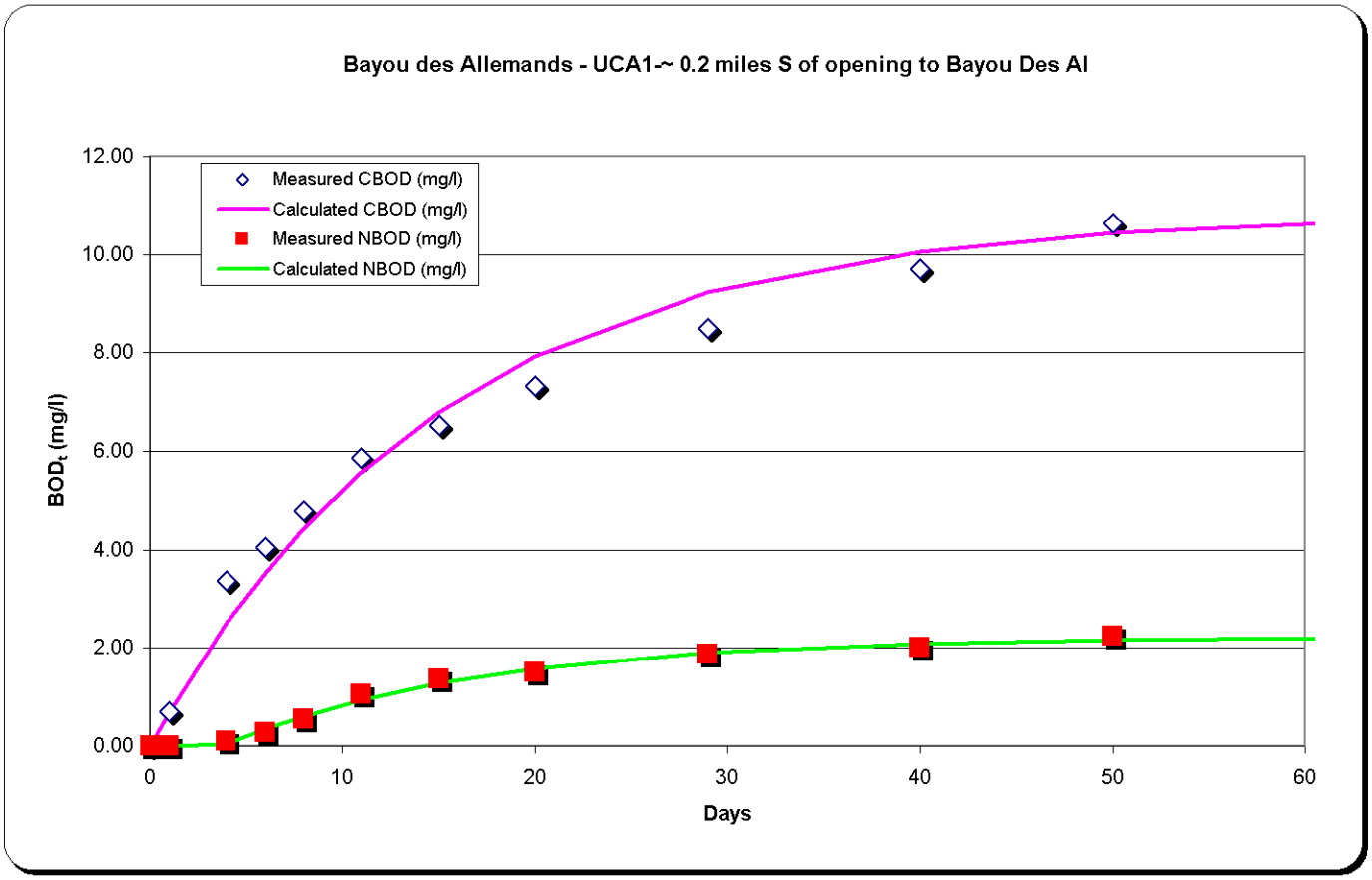
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Bayou des Allemands - UCA1-~ 0.2 miles S of opening to Bayou Des Al**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.09				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.7	0.09	0.00	0.70	0.00	0.69
4	3.4	0.11	0.09	3.36	0.04	2.51
6	4.4	0.15	0.27	4.05	0.35	3.53
8	5.4	0.21	0.55	4.79	0.61	4.43
11	6.8	0.32	1.05	5.86	0.94	5.58
15	7.8	0.39	1.37	6.52	1.28	6.80
20	8.9	0.42	1.51	7.32	1.58	7.93
29	10.4	0.50	1.87	8.49	1.91	9.23
40	11.8	0.53	2.01	9.71	2.09	10.06
50	12.8	0.58	2.24	10.63	2.17	10.44
61	13.6	0.58	2.24	11.39	2.21	10.64

2.23	10.84	**UBOD (mg/l)**
0.08	0.07	**k rate (1/day)**
3.79	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

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

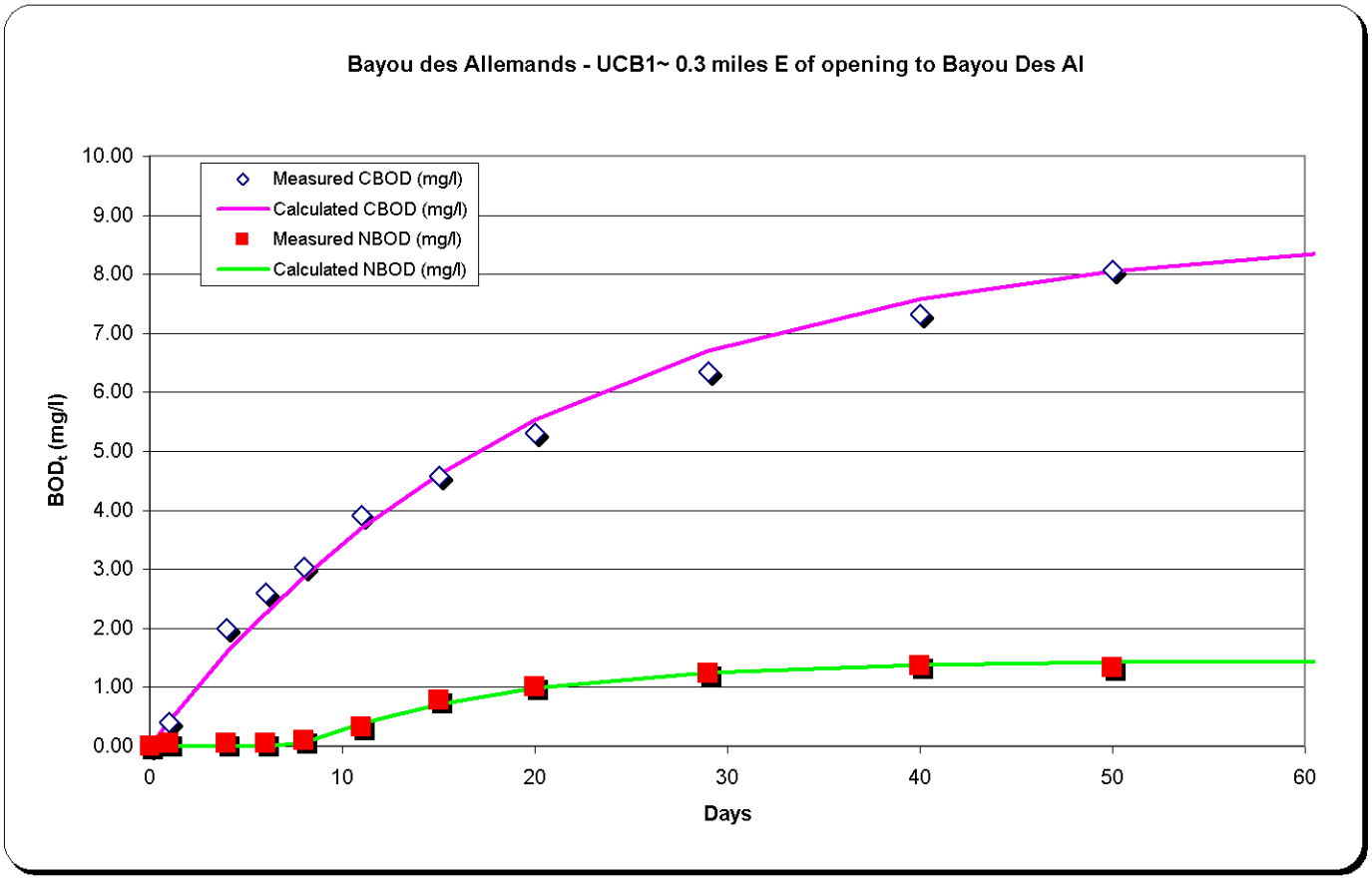
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Bayou des Allemands - UCB1~ 0.3 miles E of opening to Bayou Des Al**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.08				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.4	0.09	0.05	0.40	0.00	0.43
4	2.0	0.09	0.05	2.00	0.00	1.58
6	2.6	0.09	0.05	2.60	0.00	2.26
8	3.1	0.10	0.09	3.03	0.07	2.88
11	4.3	0.15	0.32	3.90	0.40	3.70
15	5.3	0.25	0.78	4.58	0.72	4.61
20	6.3	0.30	1.01	5.31	0.99	5.53
29	7.6	0.35	1.23	6.35	1.25	6.70
40	8.7	0.38	1.37	7.32	1.38	7.58
50	9.5	0.37	1.33	8.07	1.43	8.05
61	10.2	0.42	1.55	8.75	1.45	8.36

1.46	8.78	**UBOD (mg/l)**
0.09	0.05	**k rate (1/day)**
7.49	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

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

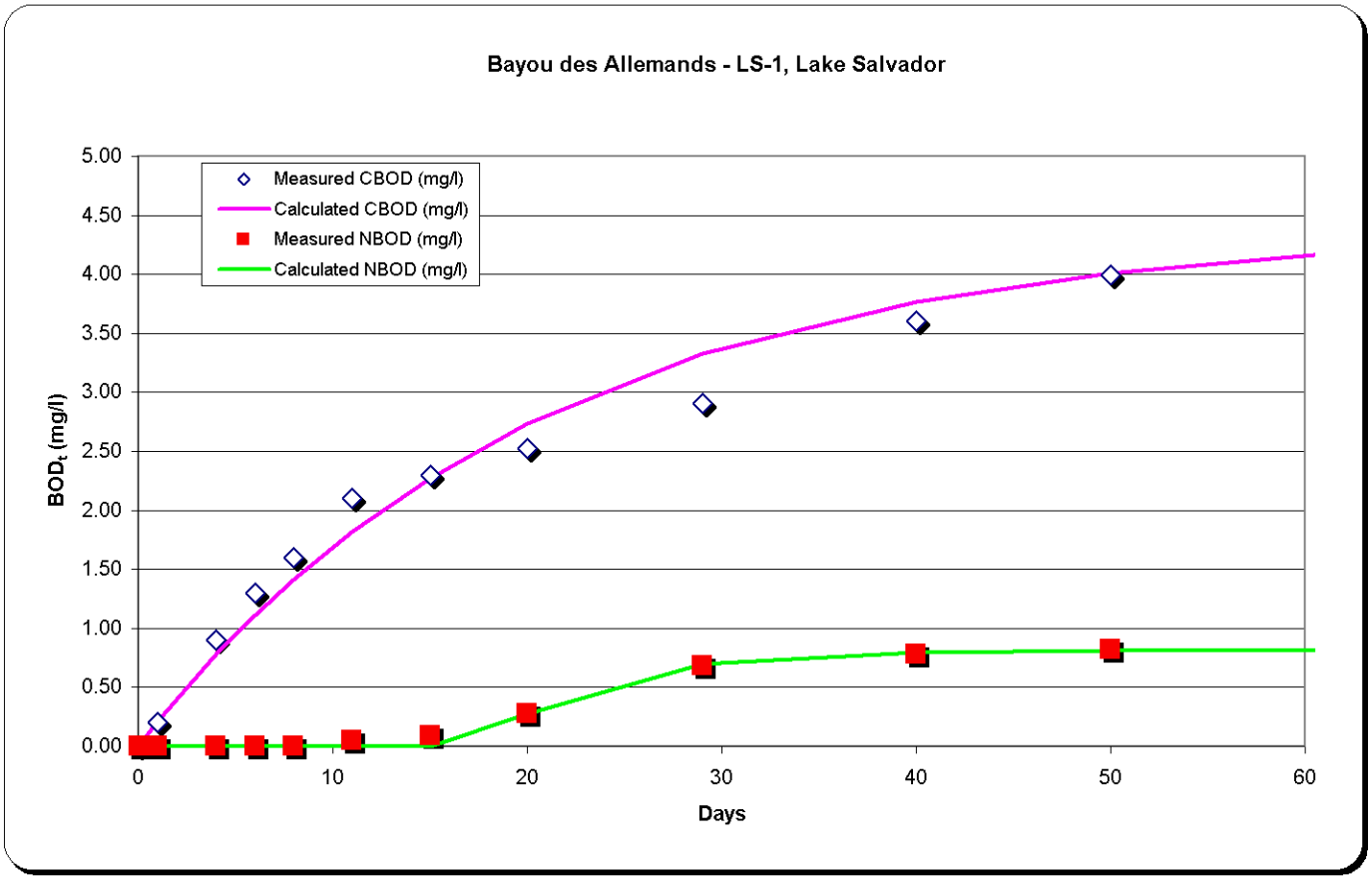
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

BOD Analysis of the for: **Bayou des Allemands - LS-1, Lake Salvador**

Measured Data					Calculated Data	
Days	*Total BOD (mg/l)*	*NOx as N (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*	*NBOD (mg/l)*	*CBOD (mg/l)*
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.20				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.2	0.20	0.00	0.20	0.00	0.21
4	0.9	0.20	0.00	0.90	0.00	0.78
6	1.3	0.20	0.00	1.30	0.00	1.11
8	1.6	0.20	0.00	1.60	0.00	1.42
11	2.1	0.21	0.05	2.10	0.00	1.82
15	2.3	0.22	0.09	2.30	0.00	2.28
20	2.8	0.26	0.27	2.53	0.27	2.73
29	3.6	0.35	0.69	2.91	0.69	3.32
40	4.4	0.37	0.78	3.61	0.79	3.77
50	4.8	0.38	0.82	3.99	0.81	4.01
61	5.3	0.38	0.82	4.49	0.81	4.17

0.81	4.40	**UBOD (mg/l)**
0.17	0.05	**k rate (1/day)**
17.60	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

Note 2 - Measured total BOD at time in "Days" column.

Note 3 - Measured (NO_2 + NO_3 as nitrogen) at time in "Days" column.

Note 4 - Calculated by multipling the measured (NO_2 +NO_3 as nitrogen) minus the day zero (NO_2 +NO_3 as nitrogen) by 4.57.

Note 5 - Determined by subtracting the calculated NBOD from the measured total BOD.

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

Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

Note 8 - Nox nondetects were input at 1/2 the detection level = 0.025 mg/l.

APPENDIX B5

Cross Section Data

STREAM CROSS-SECTION SPREADSHEET

Site Number: BDA 4 Subsegment: 020301 Waterbody: Bayou Des Allemands

Site Description: .1 Miles downstream of Godchaux Canal

Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual

Initial Bank: ☑ RDB ☐ LDB

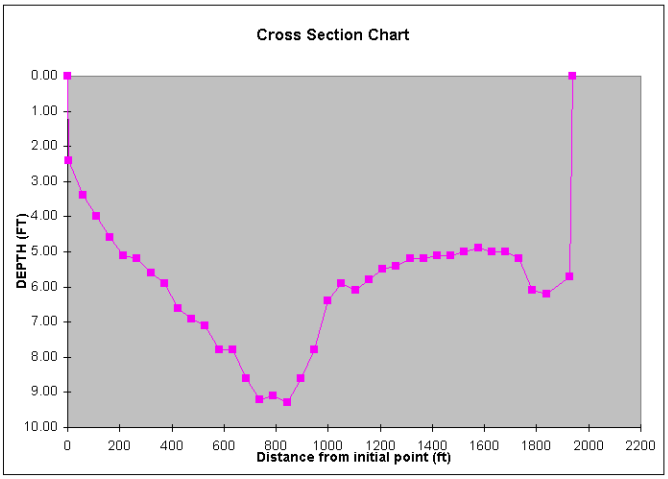
Tapedown: N/A

Guage Height: N/A

Date: 9/11/2002

WIDTH[1] (ft):	1939.00
AREA[2] (ft^2):	11772.84
AVG. DEPTH[3] (ft):	6.07

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 &7]
1	0.0	2.50	0.00	0.00	
2	5.0	28.68	2.40	68.82	0.58%
3	57.4	52.35	3.40	177.99	1.51%
4	109.7	52.35	4.00	209.40	1.78%
5	162.1	52.35	4.60	240.81	2.05%
6	214.4	52.35	5.10	266.99	2.27%
7	266.8	52.35	5.20	272.22	2.31%
8	319.1	52.35	5.60	293.16	2.49%
9	371.5	52.35	5.90	308.87	2.62%
10	423.8	52.35	6.60	345.51	2.93%
11	476.2	52.35	6.90	361.22	3.07%
12	528.5	52.35	7.10	371.69	3.16%
13	580.9	52.35	7.80	408.33	3.47%
14	633.2	52.35	7.80	408.33	3.47%
15	685.6	52.35	8.60	450.21	3.82%
16	737.9	52.35	9.20	481.62	4.09%
17	790.3	52.35	9.10	476.39	4.05%
18	842.6	52.35	9.30	486.86	4.14%
19	895.0	52.35	8.60	450.21	3.82%
20	947.3	52.35	7.80	408.33	3.47%
21	999.7	52.35	6.40	335.04	2.85%
22	1052.0	52.35	5.90	308.87	2.62%
23	1104.4	52.35	6.10	319.34	2.71%
24	1156.7	52.35	5.80	303.63	2.58%
25	1209.1	52.35	5.50	287.93	2.45%
26	1261.4	52.35	5.40	282.69	2.40%
27	1313.8	52.35	5.20	272.22	2.31%
28	1366.1	52.35	5.20	272.22	2.31%
29	1418.5	52.35	5.10	266.99	2.27%
30	1470.8	52.35	5.10	266.99	2.27%
31	1523.2	52.35	5.00	261.75	2.22%
32	1575.5	52.35	4.90	256.52	2.18%
33	1627.9	52.35	5.00	261.75	2.22%
34	1680.2	52.35	5.00	261.75	2.22%
35	1732.6	52.35	5.20	272.22	2.31%
36	1784.9	52.35	6.10	319.34	2.71%
37	1837.3	72.05	6.20	446.71	3.79%
38	1929.0	50.88	5.70	289.99	2.46%
39	1939.0	5.00	0.00	0.00	0.00%
40					
	Total	1939.00		11772.84	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Angie C	Data Inputed by / Date:	EG 09/18/02
Notetaker/Recorder:	Corey S	Data Input Checked by / Date:	CS 09/18/02
Other:	Josh Z		

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: BDA 4A **Subsegment:** 020301 **Waterbody:** Bayou Des Allemands

Site Description: Midway between BDA 4 and BDA 5

Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual

Initial Bank: ☑ RDB ☐ LDB

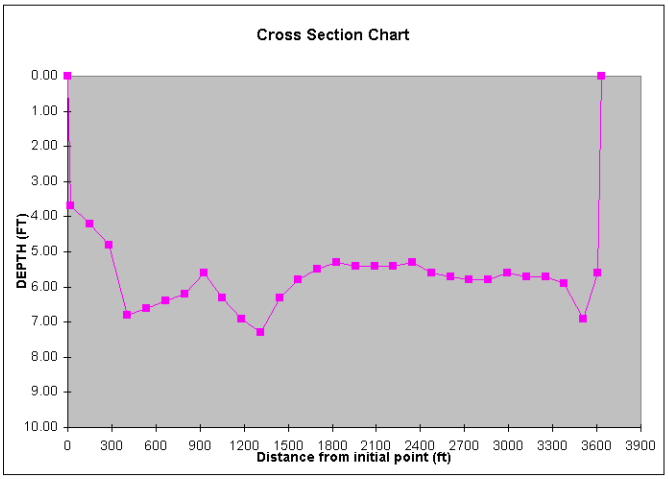
Tapedown: N/A

Guage Height: N/A

Date: 9/11/2002

WIDTH[1] (ft):	3632.00
AREA[2] (ft[2]):	20950.11
AVG. DEPTH[3] (ft):	5.77

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 &7]
1	0.0	10.00	0.00	0.00	
2	20.0	74.60	3.70	276.02	1.32%
3	149.2	129.20	4.20	542.64	2.59%
4	278.4	129.20	4.80	620.16	2.96%
5	407.6	129.20	6.80	878.56	4.19%
6	536.8	129.20	6.60	852.72	4.07%
7	666.0	129.20	6.40	826.88	3.95%
8	795.2	129.20	6.20	801.04	3.82%
9	924.4	129.20	5.60	723.52	3.45%
10	1053.6	129.20	6.30	813.96	3.89%
11	1182.8	129.20	6.90	891.48	4.26%
12	1312.0	129.20	7.30	943.16	4.50%
13	1441.2	129.20	6.30	813.96	3.89%
14	1570.4	129.20	5.80	749.36	3.58%
15	1699.6	129.20	5.50	710.60	3.39%
16	1828.8	129.20	5.30	684.76	3.27%
17	1958.0	129.20	5.40	697.68	3.33%
18	2087.2	129.20	5.40	697.68	3.33%
19	2216.4	129.20	5.40	697.68	3.33%
20	2345.6	129.20	5.30	684.76	3.27%
21	2474.8	129.20	5.60	723.52	3.45%
22	2604.0	129.20	5.70	736.44	3.52%
23	2733.2	129.20	5.80	749.36	3.58%
24	2862.4	129.20	5.80	749.36	3.58%
25	2991.6	129.20	5.60	723.52	3.45%
26	3120.8	129.20	5.70	736.44	3.52%
27	3250.0	129.20	5.70	736.44	3.52%
28	3379.2	129.20	5.90	762.28	3.64%
29	3508.4	113.05	6.90	780.05	3.72%
30	3605.3	61.80	5.60	346.08	1.65%
31	3632.0	13.35	0.00	0.00	0.00%
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	3632.00		20950.11	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Carrick B	Data Inputed by / Date:	EG 09/19/02
Notetaker/Recorder:	Eric G	Data Input Checked by / Date:	CS 09/19/02
Other:	Corey S		

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: BDA 5 Subsegment: 020301 Waterbody: Bayou Des Allemands

Site Description: About 0.3 mi d/s of NW end of Bayou Gauche

Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual

Initial Bank: ☑ RDB ☐ LDB

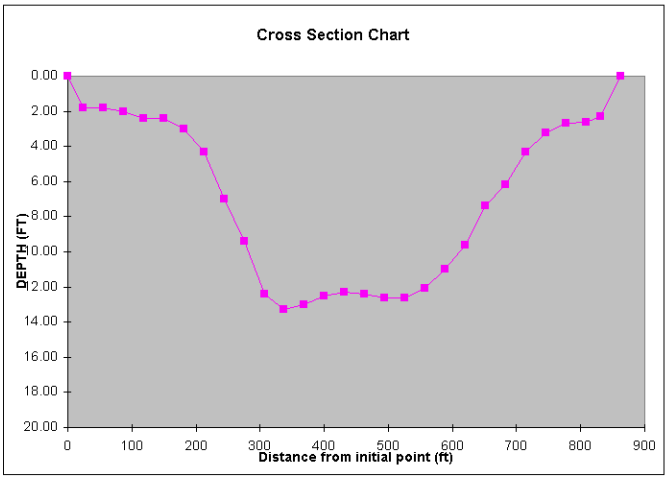
Tapedown: n/a

Guage Height: n/a

Date: 9/23/2002

WIDTH[1] (ft):	862.00
AREA[2] (ft[2]):	6138.53
AVG. DEPTH[3] (ft):	7.12

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 &7]
1	0.0	12.00	0.00	0.00	
2	24.0	27.68	1.80	49.82	0.81%
3	55.4	31.36	1.80	56.45	0.92%
4	86.7	31.36	2.00	62.72	1.02%
5	118.1	31.36	2.40	75.26	1.23%
6	149.4	31.36	2.40	75.26	1.23%
7	180.8	31.36	3.00	94.08	1.53%
8	212.2	31.36	4.30	134.85	2.20%
9	243.5	31.36	7.00	219.52	3.58%
10	274.9	31.36	9.40	294.78	4.80%
11	306.2	31.36	12.40	388.86	6.33%
12	337.6	31.36	13.30	417.09	6.79%
13	369.0	31.36	13.00	407.68	6.64%
14	400.3	31.36	12.50	392.00	6.39%
15	431.7	31.36	12.30	385.73	6.28%
16	463.0	31.36	12.40	388.86	6.33%
17	494.4	31.36	12.60	395.14	6.44%
18	525.8	31.36	12.60	395.14	6.44%
19	557.1	31.36	12.10	379.46	6.18%
20	588.5	31.36	11.00	344.96	5.62%
21	619.8	31.36	9.60	301.06	4.90%
22	651.2	31.36	7.40	232.06	3.78%
23	682.6	31.36	6.20	194.43	3.17%
24	713.9	31.36	4.30	134.85	2.20%
25	745.3	31.36	3.20	100.35	1.63%
26	776.6	31.36	2.70	84.67	1.38%
27	808.0	27.44	2.60	71.34	1.16%
28	831.5	27.00	2.30	62.10	1.01%
29	862.0	15.24	0.00	0.00	0.00%
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	862.00		6138.53	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Boffy	Data Inputed by / Date:	Schwartzenburg / 9/26/02
Notetaker/Recorder:	Garner	Data Input Checked by / Date:	Champagne / 9/26/02
Other:	Schwartzenburg		

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: BDA 6 **Subsegment:** 020301 **Waterbody:** Bayou Des Allemands

Site Description: BDA about 0.3 mi u/s of SE end of Bayou Gauche

Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual

Initial Bank: ☑ RDB ☐ LDB

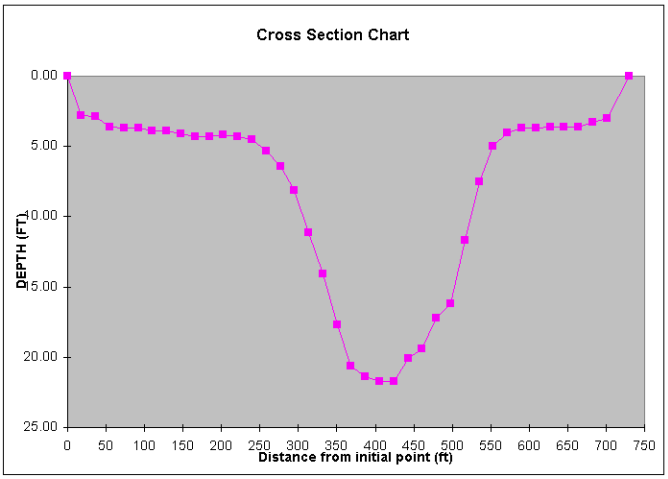
Tapedown: n/a

Guage Height: n/a

Date: 9/9/2002

WIDTH[1] (ft):	730.00
AREA[2] (ft[2]):	5994.33
AVG. DEPTH[3] (ft):	8.21

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	9.0	0.00	0.00	
2	18.0	18.2	2.80	51.04	0.85%
3	36.5	18.5	2.90	53.53	0.89%
4	54.9	18.5	3.60	66.46	1.11%
5	73.4	18.5	3.70	68.30	1.14%
6	91.8	18.5	3.70	68.30	1.14%
7	110.3	18.5	3.90	71.99	1.20%
8	128.8	18.5	3.90	71.99	1.20%
9	147.2	18.5	4.10	75.69	1.26%
10	165.7	18.5	4.30	79.38	1.32%
11	184.1	18.5	4.30	79.38	1.32%
12	202.6	18.5	4.20	77.53	1.29%
13	221.1	18.5	4.30	79.38	1.32%
14	239.5	18.5	4.50	83.07	1.39%
15	258.0	18.5	5.30	97.84	1.63%
16	276.4	18.5	6.40	118.14	1.97%
17	294.9	18.5	8.10	149.53	2.49%
18	313.4	18.5	11.10	204.91	3.42%
19	331.8	18.5	14.10	260.29	4.34%
20	350.3	18.5	17.70	326.74	5.45%
21	368.7	18.5	20.60	380.28	6.34%
22	387.2	18.5	21.40	395.04	6.59%
23	405.7	18.5	21.70	400.58	6.68%
24	424.1	18.5	21.70	400.58	6.68%
25	442.6	18.5	20.10	371.05	6.19%
26	461.0	18.5	19.40	358.12	5.97%
27	479.5	18.5	17.20	317.51	5.30%
28	498.0	18.5	16.20	299.05	4.99%
29	516.4	18.5	11.70	215.98	3.60%
30	534.9	18.5	7.50	138.45	2.31%
31	553.3	18.5	5.00	92.30	1.54%
32	571.8	18.5	4.00	73.84	1.23%
33	590.3	18.5	3.70	68.30	1.14%
34	608.7	18.5	3.70	68.30	1.14%
35	627.2	18.5	3.60	66.46	1.11%
36	645.6	18.5	3.60	66.46	1.11%
37	664.1	18.5	3.60	66.46	1.11%
38	682.6	18.5	3.30	60.92	1.02%
39	701.0	23.7	3.00	71.16	1.19%
40	730.0	14.5	0.00	0.00	0.00%
	Total	730.00		5994.33	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Boffy	Data Inputed by / Date:	9/18/02 / Schwartzenburg
Notetaker/Recorder:	Garner	Data Input Checked by / Date:	9/18/02 / Garner
Other:	Schwartzenburg		

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: BDA 7 Subsegment: 020301 Waterbody: Bayou Des Allemands

Site Description: BDA about 1.7 mi d/s of SE end of Bayou Gauche

Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual

Initial Bank: ☑ RDB ☐ LDB

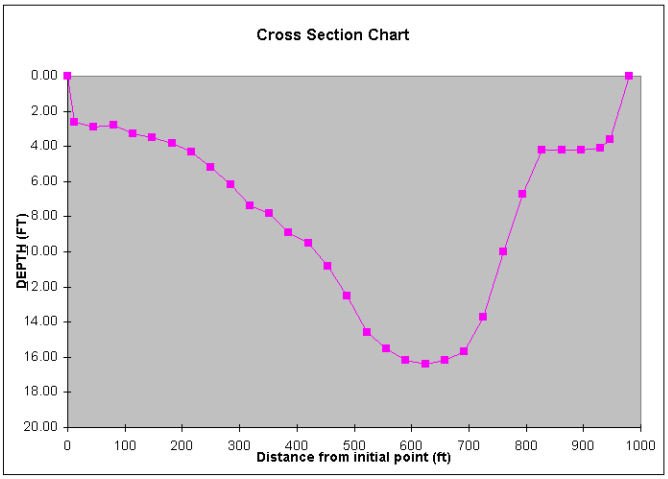
Tapedown: n/a

Guage Height: n/a

Date: 9/9/2002

WIDTH[1] (ft):	980.00
AREA[2] (ft^2):	7955.35
AVG. DEPTH[3] (ft):	8.12

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	6.00	0.00	0.00	
2	12.0	23.00	2.60	59.80	0.75%
3	46.0	34.00	2.90	98.60	1.24%
4	80.0	34.00	2.80	95.20	1.20%
5	114.0	34.00	3.30	112.20	1.41%
6	148.0	34.00	3.50	119.00	1.50%
7	182.0	34.00	3.80	129.20	1.62%
8	216.0	34.00	4.30	146.20	1.84%
9	250.0	34.00	5.20	176.80	2.22%
10	284.0	34.00	6.20	210.80	2.65%
11	318.0	34.00	7.40	251.60	3.16%
12	352.0	34.00	7.80	265.20	3.33%
13	386.0	34.00	8.90	302.60	3.80%
14	420.0	34.00	9.50	323.00	4.06%
15	454.0	34.00	10.80	367.20	4.62%
16	488.0	34.00	12.50	425.00	5.34%
17	522.0	34.00	14.60	496.40	6.24%
18	556.0	34.00	15.50	527.00	6.62%
19	590.0	34.00	16.20	550.80	6.92%
20	624.0	34.00	16.40	557.60	7.01%
21	658.0	34.00	16.20	550.80	6.92%
22	692.0	34.00	15.70	533.80	6.71%
23	726.0	34.00	13.70	465.80	5.86%
24	760.0	34.00	10.00	340.00	4.27%
25	794.0	34.00	6.70	227.80	2.86%
26	828.0	34.00	4.20	142.80	1.80%
27	862.0	34.00	4.20	142.80	1.80%
28	896.0	34.00	4.20	142.80	1.80%
29	930.0	25.50	4.10	104.55	1.31%
30	947.0	25.00	3.60	90.00	1.13%
31	980.0	16.50	0.00	0.00	0.00%
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	980.00		7955.35	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Boffy	Data Inputed by / Date:	Schwartzenburg / 9/19/02
Notetaker/Recorder:	Garner	Data Input Checked by / Date:	Garner / 9/19/02
Other:	Schwartzenburg		

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: BDA 8 **Subsegment:** 020301 **Waterbody:** Bayou Des Allemands

Site Description: .5 Miles downstream of Unnamed canal B

Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual

Initial Bank: ☑ RDB ☐ LDB

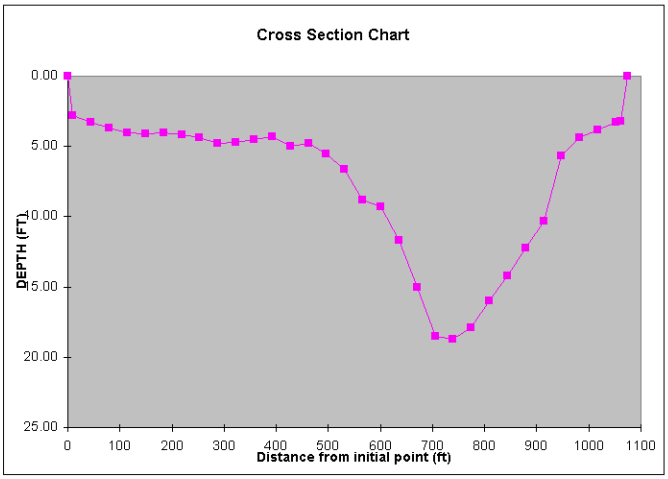
Tapedown: N/A

Guage Height: N/A

Date: 9/9/2002

WIDTH[1] (ft):	1075.00
AREA[2] (ft[2]):	8313.85
AVG. DEPTH[3] (ft):	7.73

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	5.00	0.00	0.00	
2	10.0	22.37	2.80	62.64	0.75%
3	44.7	34.74	3.30	114.64	1.38%
4	79.5	34.74	3.70	128.54	1.55%
5	114.2	34.74	4.00	138.96	1.67%
6	149.0	34.74	4.10	142.43	1.71%
7	183.7	34.74	4.00	138.96	1.67%
8	218.4	34.74	4.20	145.91	1.75%
9	253.2	34.74	4.40	152.86	1.84%
10	287.9	34.74	4.80	166.75	2.01%
11	322.7	34.74	4.70	163.28	1.96%
12	357.4	34.74	4.50	156.33	1.88%
13	392.1	34.74	4.30	149.38	1.80%
14	426.9	34.74	5.00	173.70	2.09%
15	461.6	34.74	4.80	166.75	2.01%
16	496.4	34.74	5.50	191.07	2.30%
17	531.1	34.74	6.60	229.28	2.76%
18	565.8	34.74	8.80	305.71	3.68%
19	600.6	34.74	9.30	323.08	3.89%
20	635.3	34.74	11.70	406.46	4.89%
21	670.1	34.74	15.00	521.10	6.27%
22	704.8	34.74	18.50	642.69	7.73%
23	739.5	34.74	18.70	649.64	7.81%
24	774.3	34.74	17.90	621.85	7.48%
25	809.0	34.74	16.00	555.84	6.69%
26	843.8	34.74	14.20	493.31	5.93%
27	878.5	34.74	12.20	423.83	5.10%
28	913.2	34.74	10.30	357.82	4.30%
29	948.0	34.74	5.70	198.02	2.38%
30	982.7	34.74	4.40	152.86	1.84%
31	1017.5	34.74	3.80	132.01	1.59%
32	1052.2	21.72	3.30	71.68	0.86%
33	1060.9	11.40	3.20	36.48	0.44%
34	1075.0	7.05	0.00	0.00	0.00%
35					
36					
37					
38					
39					
40					
	Total	1075.00		8313.85	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Carrick B	Data Inputed by / Date:	EG 09/19/02
Notetaker/Recorder:	Eric G	Data Input Checked by / Date:	CS 09/19/02
Other:	Corey S		

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: BG 1 Subsegment: 020301 Waterbody: Bayou Gauche

Site Description: BG about 0.2 mi from NE end of Bayou Gauche

Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual

Initial Bank: ☐ RDB ☑ LDB

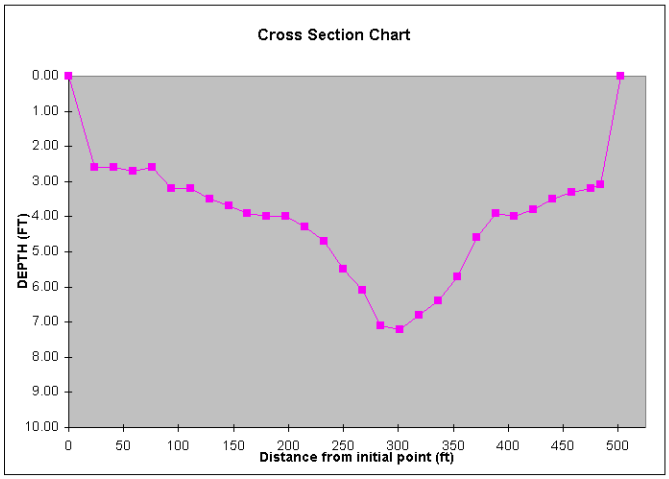
Tapedown: n/a

Guage Height: n/a

Date: 9/9/2002

WIDTH[1] (ft):	502.00
AREA[2] (ft^2):	2050.76
AVG. DEPTH[3] (ft):	4.09

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 &7]
1	0.0	12.00	0.00	0.00	
2	24.0	20.68	2.60	53.76	2.62%
3	41.4	17.35	2.60	45.11	2.20%
4	58.7	17.35	2.70	46.85	2.28%
5	76.1	17.35	2.60	45.11	2.20%
6	93.4	17.35	3.20	55.52	2.71%
7	110.8	17.35	3.20	55.52	2.71%
8	128.1	17.35	3.50	60.73	2.96%
9	145.5	17.35	3.70	64.20	3.13%
10	162.8	17.35	3.90	67.67	3.30%
11	180.2	17.35	4.00	69.40	3.38%
12	197.5	17.35	4.00	69.40	3.38%
13	214.9	17.35	4.30	74.61	3.64%
14	232.2	17.35	4.70	81.55	3.98%
15	249.6	17.35	5.50	95.43	4.65%
16	266.9	17.35	6.10	105.84	5.16%
17	284.3	17.35	7.10	123.19	6.01%
18	301.6	17.35	7.20	124.92	6.09%
19	319.0	17.35	6.80	117.98	5.75%
20	336.3	17.35	6.40	111.04	5.41%
21	353.7	17.35	5.70	98.90	4.82%
22	371.0	17.35	4.60	79.81	3.89%
23	388.4	17.35	3.90	67.67	3.30%
24	405.7	17.35	4.00	69.40	3.38%
25	423.1	17.35	3.80	65.93	3.21%
26	440.4	17.35	3.50	60.73	2.96%
27	457.8	17.35	3.30	57.26	2.79%
28	475.1	13.00	3.20	41.60	2.03%
29	483.8	13.45	3.10	41.70	2.03%
30	502.0	9.13	0.00	0.00	0.00%
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	502.00		2050.76	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Boffy	Data Inputed by / Date:	Schwartzenburg / 09/18/02
Notetaker/Recorder:	Garner	Data Input Checked by / Date:	Garner / 09/18/02
Other:	Schwartzenburg		

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: CC 1 **Subsegment:** 020301 **Waterbody:** Company Canal

Site Description: CC about 0.3 mi from opening of BDA

Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual

Initial Bank: ☑ RDB ☐ LDB

Tapedown: n/a

Guage Height: n/a

Date: 9/9/2002

WIDTH[1] (ft):	160.00
AREA[2] (ft[2]):	809.73
AVG. DEPTH[3] (ft):	5.06

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	9.00	0.00	0.00	
2	18.0	11.17	3.10	34.61	4.27%
3	22.3	4.33	2.90	12.56	1.55%
4	26.7	4.33	3.20	13.86	1.71%
5	31.0	4.33	3.40	14.72	1.82%
6	35.3	4.33	3.70	16.02	1.98%
7	39.7	4.33	3.90	16.89	2.09%
8	44.0	4.33	4.20	18.19	2.25%
9	48.3	4.33	4.90	21.22	2.62%
10	52.6	4.33	5.20	22.52	2.78%
11	57.0	4.33	5.90	25.55	3.15%
12	61.3	4.33	6.70	29.01	3.58%
13	65.6	4.33	7.60	32.91	4.06%
14	70.0	4.33	8.20	35.51	4.38%
15	74.3	4.33	8.20	35.51	4.38%
16	78.6	4.33	8.20	35.51	4.38%
17	83.0	4.33	8.30	35.94	4.44%
18	87.3	4.33	8.20	35.51	4.38%
19	91.6	4.33	8.50	36.81	4.55%
20	95.9	4.33	8.30	35.94	4.44%
21	100.3	4.33	8.00	34.64	4.28%
22	104.6	4.33	8.00	34.64	4.28%
23	108.9	4.33	7.90	34.21	4.22%
24	113.3	4.33	7.40	32.04	3.96%
25	117.6	4.33	6.90	29.88	3.69%
26	121.9	4.33	6.30	27.28	3.37%
27	126.3	4.33	5.50	23.82	2.94%
28	130.6	4.33	4.20	18.19	2.25%
29	134.9	4.33	3.60	15.59	1.93%
30	139.2	4.33	3.30	14.29	1.76%
31	143.6	4.33	3.10	13.42	1.66%
32	147.9	8.22	2.80	23.00	2.84%
33	160.0	6.05	0.00	0.00	0.00%
34					
35					
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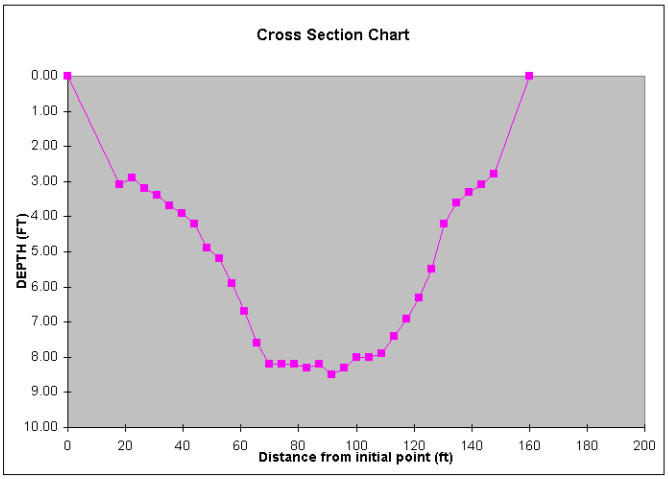
37					
38					
39					
40					
	Total	160.00		809.73	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Boffy	Data Inputed by / Date:	Schwartzenburg / 9/19/02
Notetaker/Recorder:	Garner	Data Input Checked by / Date:	Garner / 9/19/02
Other:	Schwartzenburg		

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: UCA 1 **Subsegment:** 020301 **Waterbody:** Unnamed Canal 1

Site Description: .2 Miles South of opening to Bayou Des Allemands

Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual

Initial Bank: ☐ RDB ☑ LDB

Tapedown: N/A

Guage Height: N/A

Date: 9/9/2002

WIDTH[1] (ft):	265.00
AREA[2] (ft[2]):	1313.29
AVG. DEPTH[3] (ft):	4.96

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	5.00	0.00	0.00	
2	10.0	9.84	2.90	28.54	2.17%
3	19.7	9.68	2.90	28.07	2.14%
4	29.4	9.68	3.10	30.01	2.28%
5	39.0	9.68	3.30	31.94	2.43%
6	48.7	9.68	3.30	31.94	2.43%
7	58.4	9.68	3.40	32.91	2.51%
8	68.1	9.68	3.90	37.75	2.87%
9	77.8	9.68	4.50	43.56	3.32%
10	87.4	9.68	5.10	49.37	3.76%
11	97.1	9.68	6.70	64.86	4.94%
12	106.8	9.68	7.80	75.50	5.75%
13	116.5	9.68	8.10	78.41	5.97%
14	126.2	9.68	9.00	87.12	6.63%
15	135.8	9.68	9.30	90.02	6.85%
16	145.5	9.68	9.50	91.96	7.00%
17	155.2	9.68	9.00	87.12	6.63%
18	164.9	9.68	8.00	77.44	5.90%
19	174.6	9.68	6.90	66.79	5.09%
20	184.2	9.68	6.10	59.05	4.50%
21	193.9	9.68	5.40	52.27	3.98%
22	203.6	9.68	3.70	35.82	2.73%
23	213.3	9.68	3.30	31.94	2.43%
24	223.0	9.68	2.40	23.23	1.77%
25	232.6	9.68	2.80	27.10	2.06%
26	242.3	7.23	2.60	18.80	1.43%
27	247.1	11.34	2.80	31.75	2.42%
28	265.0	8.95	0.00	0.00	0.00%
29					
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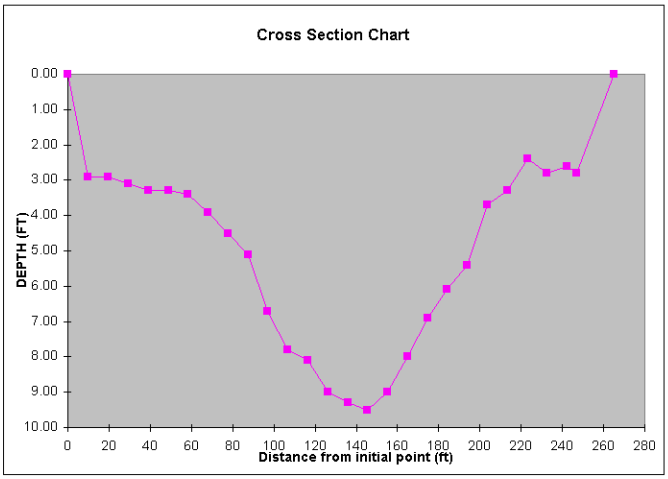
	Total	265.00		1313.29	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	C. Boffy	Data Inputed by / Date:	EG 9/18/02
Notetaker/Recorder:	E. Garner	Data Input Checked by / Date:	CS 9/18/02
Other:	C. Schwartzenburg		

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: UCB 1 **Subsegment:** 020301 **Waterbody:** Unnamed Canal B

Site Description: UCB about 0.3 mi u/s of BDA

Type of Equipment: ☐ Fathometer ☑ Hydrotrac ☐ Manual

Initial Bank: ☑ RDB ☐ LDB

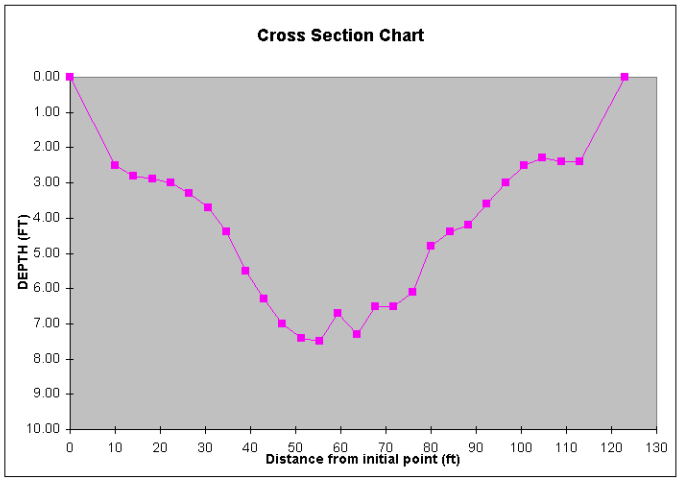
Tapedown: n/a

Guage Height: n/a

Date: 9/9/2002

WIDTH[1] (ft):	123.00
AREA[2] (ft^2):	504.69
AVG. DEPTH[3](ft):	4.10

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6 & 7]
1	0.0	5.00	0.00	0.00	
2	10.0	7.06	2.50	17.65	3.50%
3	14.1	4.12	2.80	11.54	2.29%
4	18.2	4.12	2.90	11.95	2.37%
5	22.4	4.12	3.00	12.36	2.45%
6	26.5	4.12	3.30	13.60	2.69%
7	30.6	4.12	3.70	15.24	3.02%
8	34.7	4.12	4.40	18.13	3.59%
9	38.8	4.12	5.50	22.66	4.49%
10	43.0	4.12	6.30	25.96	5.14%
11	47.1	4.12	7.00	28.84	5.71%
12	51.2	4.12	7.40	30.49	6.04%
13	55.3	4.12	7.50	30.90	6.12%
14	59.4	4.12	6.70	27.60	5.47%
15	63.6	4.12	7.30	30.08	5.96%
16	67.7	4.12	6.50	26.78	5.31%
17	71.8	4.12	6.50	26.78	5.31%
18	75.9	4.12	6.10	25.13	4.98%
19	80.0	4.12	4.80	19.78	3.92%
20	84.2	4.12	4.40	18.13	3.59%
21	88.3	4.12	4.20	17.30	3.43%
22	92.4	4.12	3.60	14.83	2.94%
23	96.5	4.12	3.00	12.36	2.45%
24	100.6	4.12	2.50	10.30	2.04%
25	104.8	4.12	2.30	9.48	1.88%
26	108.9	4.12	2.40	9.89	1.96%
27	113.0	7.06	2.40	16.94	3.36%
28	123.0	5.00	0.00	0.00	0.00%
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	123.00		504.69	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Boffy	Data Inputed by / Date:	9/18/02 / Schwartzenburg
Notetaker/Recorder:	Garner	Data Input Checked by / Date:	9/18/02 / Boffy
Other:	Schwartzenburg		

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

APPENDIX B6

Velocity and Flow Information

Table B6.1. LDEQ Drogue Measurements for Bayou des Allemands (020301)

					From field sheets:				
								Check boxes for:	
Site	Stream Location	Distance (feet)	Time (sec)	Velocity (ft/sec)	Notes	Date	Time	Flowing?	Flow direc?
BDA 4	Mid Stream (1)	40.5	766	0.053		09/11/02	12:25	No	
BDA 4	Mid Stream (2)	40.5	729	0.056					
BDA 5	Mid Stream (1)	40	229	0.175					
BDA 5	Mid Stream (2)	40	212	0.189		09/11/02	10:40	No	
BDA 5	Mid Stream (3)	40	230	0.174					
BDA 6	Mid Stream	130	1140	0.114		09/11/02	10:50	Yes	Upstream
BDA 7	Mid Stream	0	1200	0.000	no movement	09/11/02	12:05	No	
BDA 8	RDB	21	240	0.088	influenced by wind				
BDA 8	Mid Stream	6	240	0.025	no wind	09/11/02	10:35	Yes	Downstream
BDA 8	LDB	17	240	0.071	no wind				
BG 1	Mid Stream	0	2100	0.000		09/11/02	9:00		
UCA 1	Mid Stream	57	1065	0.054		09/11/02	11:25	Yes	Upstream
UCB 1	LDB	44	240	0.183					
UCB 1	Mid Stream	65	240	0.271		09/11/02	11:35	Yes	Downstream
UCB 1	RDB	85	240	0.354					
CC 1	RDB	49	240	0.204	wind influenced				
CC 1	Mid Stream	43	240	0.179	wind influenced	09/11/02	9:40	Yes	Upstream
CC 1	LDB	15	240	0.063	grassy				

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Table B6.2. Summary of Acoustic Doppler flow data.

Station	Date	Time	Flow (cfs)
BDA-1	9/10/2002	16:02 - 16:25	-3012
BDA-1	9/11/2002	10:51 - 11:06	-1647
BDA-1	9/11/2002	14:40 - 14:56	-507
BDA-9	9/10/2002	13:54 - 14:39	-2863
BDA-9	9/11/2002	08:45 - 09:22	-1979
BDA-9	9/11/2002	13:02 - 13:47	1408
BG-3	9/11/2002	10:08 - 10:22	-401

FILE: R:\PROJECTS\3110-051\SURVDATA\DES_ALL\ADCP_FLOW_PLOT.XLS

Table B6.3. Results of Dye Study for Bayou des Allemands (Subsegment 020301)

Sample ID	Date / Time	Measured dye conc. (ppb)	Easting	Northing	Distance downstream of injection location (m)	"Width" of area under curve (m)	Area under curve (m * ppb)	Horizontal centroid of area under curve (m)	Horizontal moment about X=0 (m2 * ppb)
Injection	09/11/02 08:55		751859	3295888					
				RUN 1					
a11	09/11/02 13:16	0.00	751780	3296006	-142	-16	0	-150	0
a10	09/11/02 13:13	6.42	751762	3296032	-174	-40	260	-178	-46271
a9	09/11/02 13:10	20.40	751715	3296047	-223	-78	1601	-238	-380258
a8	09/11/02 13:08	9.95	751625	3296106	-331	-106	1056	-330	-348321
a7	09/11/02 13:07	10.10	751532	3296154	-435	-100	1014	-433	-439264
a6	09/11/02 13:03	24.70	751445	3296195	-531	-139	3422	-553	-1890840
a5	09/11/02 13:01	25.60	751274	3296254	-712	-135	3444	-689	-2373050
a4	09/11/02 12:58	47.60	751194	3296291	-800	-100	4778	-807	-3853650
a3	09/11/02 12:57	56.60	751110	3296366	-913	-88	4984	-901	-4489744
a2	09/11/02 12:54	43.90	751057	3296401	-977	-59	2595	-974	-2528449
a1	09/11/02 12:53	5.60	751010	3296429	-1031	-27	153	-1018	-155879
Median =	09/11/02 13:03		Location of center of mass =		-708	sum =	23307	sum =	-16505727
Elapsed time (hrs) = 4.13									
Avg velocity (since injection) =		-0.05 m/sec	=	-0.16 ft/sec					
				RUN 2					
b1	09/11/02 13:49	0.58	751678	3296020	-223	-41	24	-244	-5786
b2	09/11/02 13:51	3.69	751615	3296073	-305	-94	347	-311	-107851
b3	09/11/02 13:53	7.02	751536	3296143	-411	-100	704	-408	-287375
b4	09/11/02 13:56	17.40	751460	3296200	-506	-119	2069	-518	-1071214
b5	09/11/02 13:58	6.71	751335	3296269	-649	-122	820	-638	-523234
b6	09/11/02 14:01	33.20	751238	3296299	-750	-101	3338	-750	-2502327
b7	09/11/02 14:03	33.00	751146	3296337	-850	-83	2732	-841	-2298489
b8	09/11/02 14:05	33.70	751092	3296375	-916	-98	3289	-932	-3063468
b9	09/11/02 14:08	39.50	750981	3296441	-1045	-107	4211	-1034	-4352289
b10	09/11/02 14:15	11.20	750936	3296512	-1129	-73	816	-1123	-916855
b11	09/11/02 14:17	5.52	750877	3296530	-1191	-72	399	-1196	-477157
b12	09/11/02 14:19	4.78	750795	3296542	-1274	-88	423	-1276	-539678
b13	09/11/02 14:21	0.00	750702	3296528	-1368	-47	0	-1344	0
Median =	09/11/02 14:03		Location of center of mass =		-842	sum =	19170	sum =	-16145724
Elapsed time (hrs) = 5.13									
Avg velocity (since injection) =		-0.05 m/sec	=	-0.15 ft/sec					

Sample ID	Date / Time	Measured dye conc. (ppb)	Easting	Northing	Distance downstream of injection location (m)	"Width" of area under curve (m)	Area under curve (m * ppb)	Horizontal centroid of area under curve (m)	Horizontal moment about X=0 (m2 * ppb)
RUN 3									
c18	09/11/02 17:37	0.00	751641	3296105	-308	-24	0	-320	0
c17	09/11/02 17:35	3.23	751602	3296134	-357	-72	233	-368	-85662
c16	09/11/02 17:32	6.34	751522	3296186	-452	-111	705	-460	-324462
c15	09/11/02 17:30	16.60	751406	3296238	-579	-109	1809	-570	-1031216
c14	09/11/02 17:28	16.70	751326	3296281	-670	-83	1393	-666	-928430
c13	09/11/02 17:26	18.30	751259	3296317	-746	-79	1453	-748	-1086582
c12	09/11/02 17:24	22.40	751186	3296356	-829	-77	1726	-826	-1425572
c11	09/11/02 17:22	35.90	751125	3296393	-900	-74	2641	-901	-2380439
c10	09/11/02 17:20	8.59	751060	3296432	-976	-68	583	-972	-567073
c9	09/11/02 17:18	12.50	751008	3296462	-1036	-64	797	-1038	-827474
c8	09/11/02 17:16	14.70	750948	3296493	-1104	-82	1208	-1111	-1341486
c7	09/11/02 17:14	14.60	750859	3296531	-1200	-84	1225	-1194	-1462388
c6	09/11/02 17:12	14.40	750788	3296529	-1271	-73	1054	-1272	-1340641
c5	09/11/02 17:10	8.44	750714	3296515	-1347	-79	663	-1348	-893356
c4	09/11/02 17:08	8.87	750638	3296485	-1428	-89	792	-1432	-1133952
c3	09/11/02 17:06	4.40	750562	3296425	-1525	-82	361	-1518	-547424
c2	09/11/02 17:04	4.07	750506	3296388	-1592	-72	295	-1595	-470454
c1	09/11/02 17:02	1.58	750437	3296352	-1670	-39	61	-1651	-101486
Median =	09/11/02 17:14		Location of center of mass =		-1018	sum =	14253	sum =	-14506756
Elapsed time (hrs) = 8.31									
Avg velocity (since injection) =		-0.03 m/sec	=	-0.11 ft/sec					
RUN 4									
d21	09/12/02 14:39	0.000	755391	3290402	7760	70	0	7795	0
d20	09/12/02 14:36	0.000	755389	3290262	7900	151	0	7906	0
d19	09/12/02 14:32	0.000	755380	3290100	8062	123	0	8043	0
d18	09/12/02 14:30	0.000	755372	3290017	8146	70	0	8139	0
d17	09/12/02 14:27	0.063	755371	3289960	8203	53	3	8200	27192
d16	09/12/02 14:26	0.180	755376	3289912	8251	49	9	8251	72498
d15	09/12/02 14:24	0.186	755370	3289863	8300	55	10	8303	84611
d14	09/12/02 14:22	0.268	755365	3289803	8360	67	18	8364	149322
d13	09/12/02 14:20	0.356	755363	3289730	8434	70	25	8432	208842
d12	09/12/02 14:18	0.371	755367	3289664	8500	70	26	8501	219568
d11	09/12/02 14:16	0.444	755371	3289591	8573	76	34	8574	287674
d10	09/12/02 14:14	0.602	755373	3289513	8651	82	49	8653	428113
d9	09/12/02 14:12	0.726	755393	3289429	8737	80	58	8734	508398
d8	09/12/02 14:10	0.647	755394	3289355	8811	70	45	8809	397002
d7	09/12/02 14:08	0.613	755407	3289291	8876	64	39	8876	348423
d6	09/12/02 14:06	0.897	755431	3289233	8939	72	65	8944	580481
d5	09/12/02 14:04	0.902	755464	3289158	9021	111	100	9035	901160
d4	09/12/02 14:01	0.854	755521	3289031	9160	123	105	9152	962397
d3	09/12/02 13:58	0.805	755591	3288950	9267	97	78	9262	720781
d2	09/12/02 13:56	0.173	755637	3288877	9354	63	11	9342	101559
d1	09/12/02 13:55	0.151	755653	3288841	9393	20	3	9383	27909
Median =	09/12/02 14:08		Location of center of mass =		8912	sum =	655	sum =	5841629
Elapsed time (hrs) = 29.21									
Avg velocity (since injection) =		0.08 m/sec	=	0.28 ft/sec					

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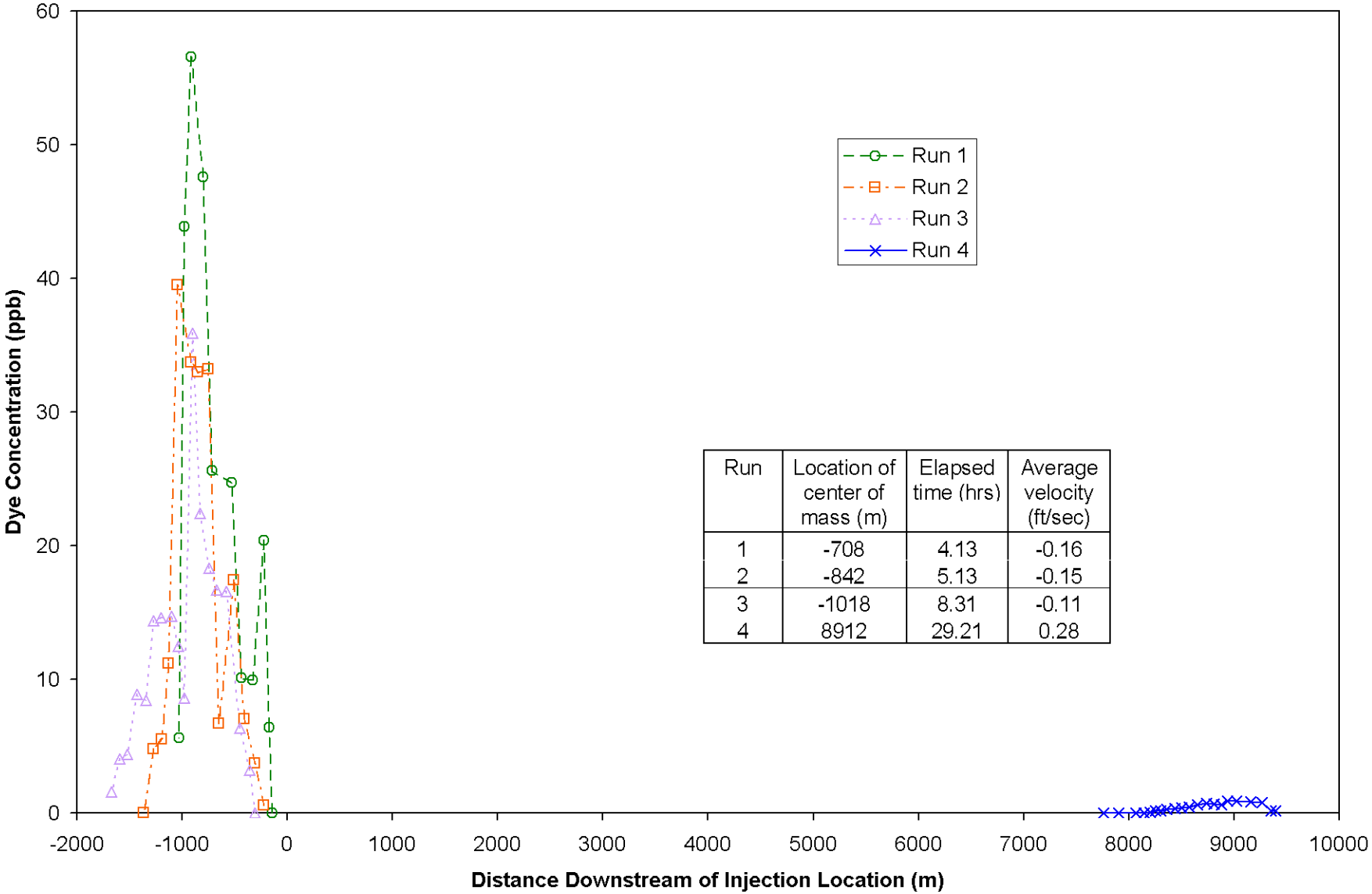
Figure B6.1. Results of Bayou des Allemands Dye Study on September 11-12, 2002



Run	Location of center of mass (m)	Elapsed time (hrs)	Average velocity (ft/sec)
1	-708	4.13	-0.16
2	-842	5.13	-0.15
3	-1018	8.31	-0.11
4	8912	29.21	0.28

APPENDIX C

LA-QUAL Vector Diagram

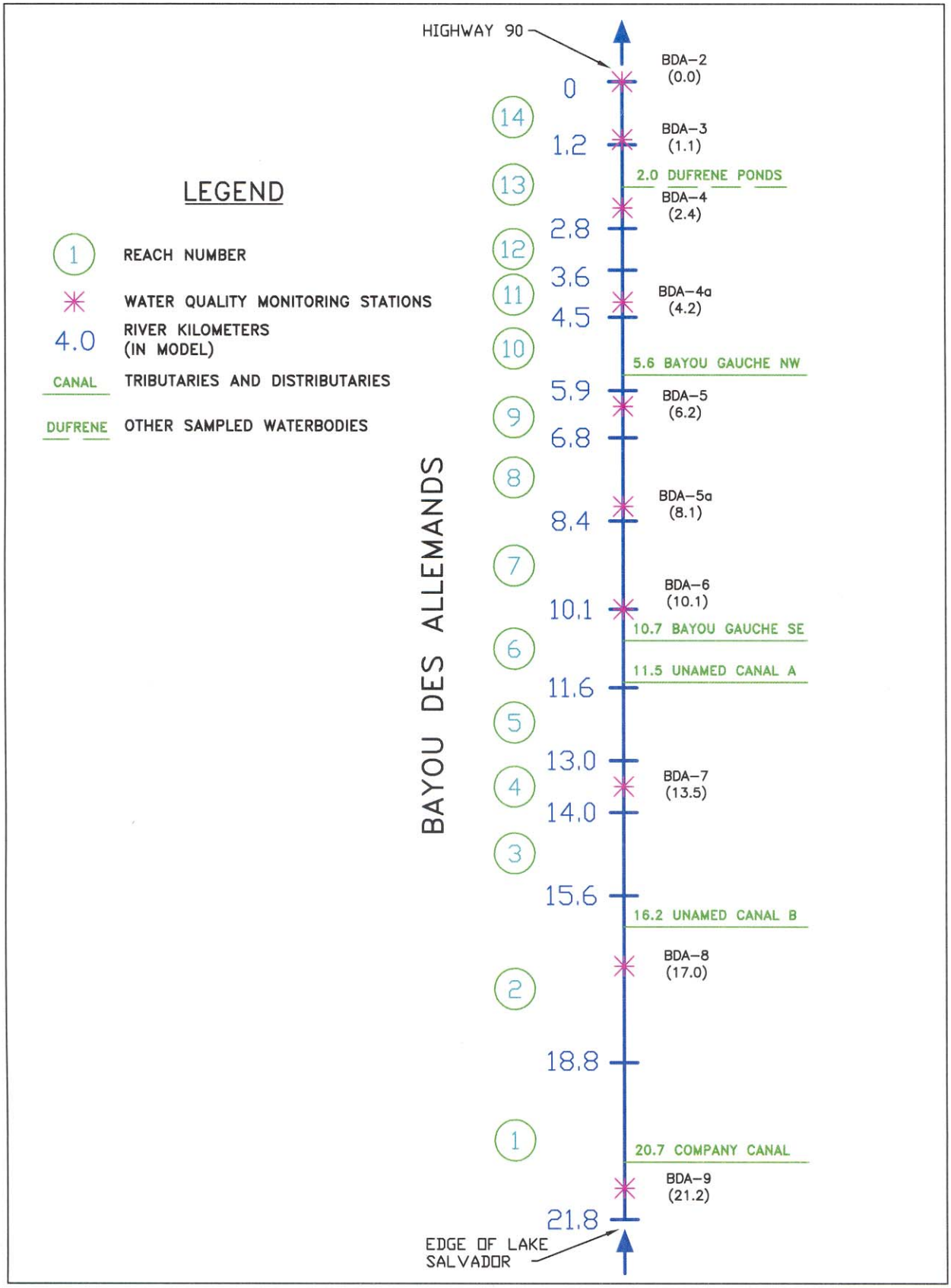


Figure C.1. LA-QUAL Vector Diagram for Bayou des Allemands.

APPENDIX D

Model Inputs Tables

Table D.1. Wind Aided Reaeration for Bayou des Allemands

Wind Aided Reaeration Coefficient Equation (Eq.3-23 from Rates, Constants, and Kinetics publication)

$K_{L\ with\ wind} = K_{L\ without\ wind}\ [1+(0.2395V_w^{1.643})]$ **Equation 1**

V_w = wind velocity in meters per second
K_2 = reaeration in 1/day that does not account for wind effects. For Louisiana equation use K_2 = 0.664/D.
D = depth in meters
$K_L = K_2 * D$ (=oxygen transfer coefficient "a" in model)

Formula to correct wind speed for elevation (obtained from LDEQ):

$V_{w@\ height\ z} = V_{w@\ height\ s}\ [(z/s)^{0.143}]$ **Equation 2**

CALCULATIONS FOR CALIBRATION PERIOD:

Calibration Period: September 11,2002

Station	Average Wind Speed (knots)	Average Wind Speed (m/s)	Height of Wind Measurement (m)	Height for Calculating Wind-Aided K_L (m)	Wind Speed at Surface using Eqn 2 (m/s)	K_L without wind (m/day)	K_L with wind using Eqn 1 (m/day)
New Orleans Intl. Airport	3.5	1.8	10	0.1	0.9	0.664	0.81

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BAYOU DES ALLEMANDS MODEL INPUTS FOR CALIBRATION

Table D.2. Calibration Inputs for Hydraulics (Data Types 9 and 10).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
Width coefficient, a	all	0	Set to zero because changes in flow rate between calibration and projection are assumed to cause negligible changes in width.
Width exponent, b	all	0	
Width constant, c	1	404.0	Based on widths measured at frequent intervals from DOQQs.
	2	342.0	
	3	440.0	
	4	267.0	
	5	334.0	
	6	398.0	
	7	231.0	
	8	180.0	
	9	264.0	
	10	1058.0	
	11	1224.0	
	12	1010.0	
	13	500.0	
	14	213.0	
Depth coefficient, d	all	0	Set to zero because changes in flow rate between calibration and projection are assumed to cause negligible changes in depth.
Depth exponent, e	all	0	
Depth constant, f	1-2	2.35	average depth measured from BDA-8
	3	2.41	average of depths at BDA-8 and BDA-7
	4	2.47	average depth measured from BDA-7
	5	2.49	average of depths at BDA-6 and BDA-7
	6-7	2.50	average depth measured from BDA-6
	8	2.34	average of depths at BDA-6 and BDA-5
	9	2.17	average depth measured from BDA-5
	10	1.97	average of depths at BDA-5 and BDA-4a
	11	1.76	average depth measured from BDA-4a
	12	1.81	average of depths at BDA-4a and BDA-4
	13-14	1.85	average depth measured from BDA-4
Dispersion coefficient (m^2/sec)	all	10	Estimated from previous experience in similar waterbodies.

Table D.3. Calibration Inputs for Initial Conditions (Data Type 11).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
Temperature (°C)	1-2	28.89	Based on average of temperatures measured at continuous monitor at BDA-9 on sampling day
	3-4	28.65	Based on average of temperatures measured at continuous monitor at BDA-9 and BDA-6 on sampling day
	5-7	28.41	Based on average of temperatures measured at continuous monitor at BDA-6 on sampling day
	8	28.62	Based on average of temperatures measured at continuous monitor at BDA-6 and BDA-5 on sampling day
	9-10	28.84	Based on average of temperatures measured at continuous monitor at BDA-5 on sampling day
	11-12	29.28	Based on average of temperatures measured at continuous monitor at BDA-5 and BDA-2 on sampling day
	13-14	29.71	Based on average of temperatures measured at continuous monitor at BDA-2 on sampling day
Salinity (ppt)	1-2	0.66	Based on average of salinities measured at continuous monitor at BDA-9 on sampling day
	3-4	0.67	Based on average of salinities measured at continuous monitor at BDA-9 and BDA-6 on sampling day
	5-7	0.68	Based on average of salinities measured at continuous monitor at BDA-6 on sampling day
	8	0.69	Based on average of salinities measured at continuous monitor at BDA-6 and BDA-5 on sampling day
	9-10	0.70	Based on average of salinities measured at continuous monitor at BDA-5 on sampling day
	11-12	0.67	Based on average of salinities measured at continuous monitor at BDA-5 and BDA-2 on sampling day
	13-14	0.65	Based on average of salinities measured at continuous monitor at BDA-2 on sampling day

DO (mg/L)	1-2	6.17	Based on average of DOs measured at continuous monitor at BDA-9 on sampling day
	3-4	6.65	Based on average of DOs measured at continuous monitor at BDA-9 and BDA-6 on sampling day
	5-7	7.13	Based on average of DOs measured at continuous monitor at BDA-6 on sampling day
	8	6.96	Based on average of DOs measured at continuous monitor at BDA-6 and BDA-5 on sampling day
	9-10	6.78	Based on average of DOs measured at continuous monitor at BDA-5 on sampling day
	11-12	6.76	Based on average of DOs measured at continuous monitor at BDA-5 and BDA-2 on sampling day
	13-14	6.74	Based on average of DOs measured at continuous monitor at BDA-2 on sampling day
Chorophyll a (μg/L)	1	8.70	from intensive survey for BDA-9
	2-4	4.60	from intensive survey for BDA-7
	5	10.50	average of BDA-7 and BDA-6
	6-7	16.4	from intensive survey for BDA-6
	8	10.45	average of BDA-5 and BDA-6
	9-10	4.50	from intensive survey for BDA-5
	11-12	3.75	average of BDA-5 and BDA-2
	13-14	3.00	from intensive survey for BDA-2

Table D.4. Calibration Inputs for Kinetic Coefficients (Data Types 12, 13, and 15).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
Reaeration option	all	15	Louisiana equation was used because it has been developed for Louisiana streams and used successfully for Louisiana TMDLs.
Surface transfer coefficient for reaeration (m/day)	all	0.81	Calculated based on wind speed from New Orleans International airport for sampling day (see Table D.1.)
CBODu decay rate (1/day)	all	0.05	Averages of bottle decay rates for all sampling stations (see Table B4.1)
NBODu decay rate (1/day)	all	0.09	

Table D.5. Calibration Inputs for NPS Loads (Data Types 12 and 19).

Reach	SOD ($g/m^2/day$)	CBODu mass load (kg/day)	NBODu mass load (kg/day)	Data Source / Comment
1	3.25	750	375	These values were treated as calibration parameters by adjusting them to until the model output was similar to the calibration target values.
2	3.00	1400	700	
3	0.20	4220	2110	
4	0.20	1080	540	
5	0.20	750	5	
6	0.20	500	6	
7	0.50	4	4	
8	1.50	3	3	
9	1.50	2	2	
10	0.20	15	741	
11	0.20	1102	551	
12	0.20	889	404	
13	0.20	960	400	
14	0.20	332	128	

Table D.6. Calibration Inputs for Incremental Inflow (Data Types 16, 17, and 18).

Parameter name	Reach	Value used in model	Data Source / Comment
Flow rate	1	2.4610 m^3/sec	Based on accoustic dopplar and drogue measurements (as discussed in Section 4.2.11 with calculations shown in Appendix F).
	2	2.6251 m^3/sec	
	3	1.3125 m^3/sec	
	4	0.8203 m^3/sec	
	5	1.1485 m^3/sec	
	6	1.2305 m^3/sec	
	7	1.3946 m^3/sec	
	8	1.3125 m^3/sec	
	9	0.7383 m^3/sec	
	10	1.1485 m^3/sec	
	11	0.7383 m^3/sec	
	12	0.6563 m^3/sec	
	13	1.3125 m^3/sec	
	14	0.9844 m^3/sec	
Chloride	1-9	270 mg/L	Used to adjust predicted and observed concentrations in Bayou des Allemands.
	10-14	120 mg/L	
Conductivity	1-9	1160 μmhos	Used to adjust predicted and observed concentrations in Bayou des Allemands.
	10-14	500 μmhos	
DO	all	6.00 mg/L	Determined from best professional judgement.
CBODu	all	5.00 mg/L	Determined from best professional judgement.
NBODu	all	1.00 mg/L	Determined from best professional judgement.

Table D.7. Calibration Inputs for Headwater (Data Types 20 and 21).

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Inflow from Lake Salvador	Flow rate	42.0 m^3/sec	From Acoustic Dopplar flow measurements
	Chloride	369 mg/L	Average of observed values for LS-1 and BDA-9
	Conductivity	1405 μmhos	Average of observed values for LS-1 and BDA-9
	DO	5.32 mg/L	Average of estimated daily min DO for LS-1 (based on ratio of instantaneous to daily average DO at LS-1) and min DO at BDA-9 on sampling day
	CBODu	4.56 mg/L	Average of values calculated from 60-day BOD time series data at LS-1 and BDA-9
	NBODu	0.86 mg/L	Average of values calculated from 60-day BOD time series data at LS-1 and BDA-9

Table D.8. Calibration Inputs for Wasteloads (Data Types 24, 25, and 26).

Wasteload	Parameter name	Value used in model	Data Source / Comment
Company Canal	Flow rate	-3.79 m^3/sec	Based on flow balance described in section 4.2.11
	Chloride	0	Water quality information not used by model for withdrawls
	Conductivity	0	
	DO	0	
	CBODu	0	
	NBODu	0	
Unnamed Canal B	Flow rate	3.31 m^3/sec	Based on flow balance described in section 4.2.11
	Chloride	360 mg/L	From samples taken at UCB-1
	Conductivity	1289 µmhos	
	DO	2.76 mg/L	Average of DO values from continuous monitoring at UCB-1 on sampling day
	CBODu	8.78 mg/L	Calculated from BOD time series data at UCB-1
	NBODu	1.46 mg/L	
Unnamed Canal A	Flow rate	-1.73 m^3/sec	Based on flow balance described in section 4.2.11
	Chloride	0	Water quality information not used by model for withdrawls
	Conductivity	0	
	DO	0	
	CBODu	0	
	NBODu	0	
Bayou Gauche (SE end)	Flow rate	-11.36 m^3/sec	Based on flow balance described in section 4.2.11
	Chloride	0	Water quality information not used by model for withdrawls
	Conductivity	0	
	DO	0	
	CBODu	0	
	NBODu	0	
Bayou Gauche (NE end)	Flow rate	11.36 m^3/sec	Based on flow balance described in section 4.2.11
	Chloride	346 mg/L	From samples taken at BG-2
	Conductivity	1341 µmhos	
	DO	6.25 mg/L	Estimated daily average DO at BG-2 using continuous monitoring DO data from BDA-5a
	CBODu	6.5 mg/L	Calculated from BOD time series data at BG-2
	NBODu	1.32 mg/L	

Table D.9. Calibration Inputs for Lower Boundary Conditions (Data Type 27).

Parameter	**Value used in model**	**Data Source / Comment**
Temperature	29.71°C	Based on average of temperatures measured at continuous monitor at BDA-2 on sampling day
Salinity	0.64 ppt	Average of values measured at BDA-1 and its duplicate
Chloride	311 mg/L	
Conductivity	1210.5 μmhos	
DO	7.00 mg/L	Average of estimates of mean daily DO at BDA-1. Each mean daily DO was estimated from an instantaneous measurement at BDA-1 and continuous monitoring data from BDA-2 (see Appendix G2).
CBODu	5.59 mg/L	Calculated from BOD time series samples for BDA-1
Chlorophyll a	3.0 μg/L	from intensive survey for BDA-2
NBODu	1.42 mg/L	Calculated from BOD time series samples for BDA-1

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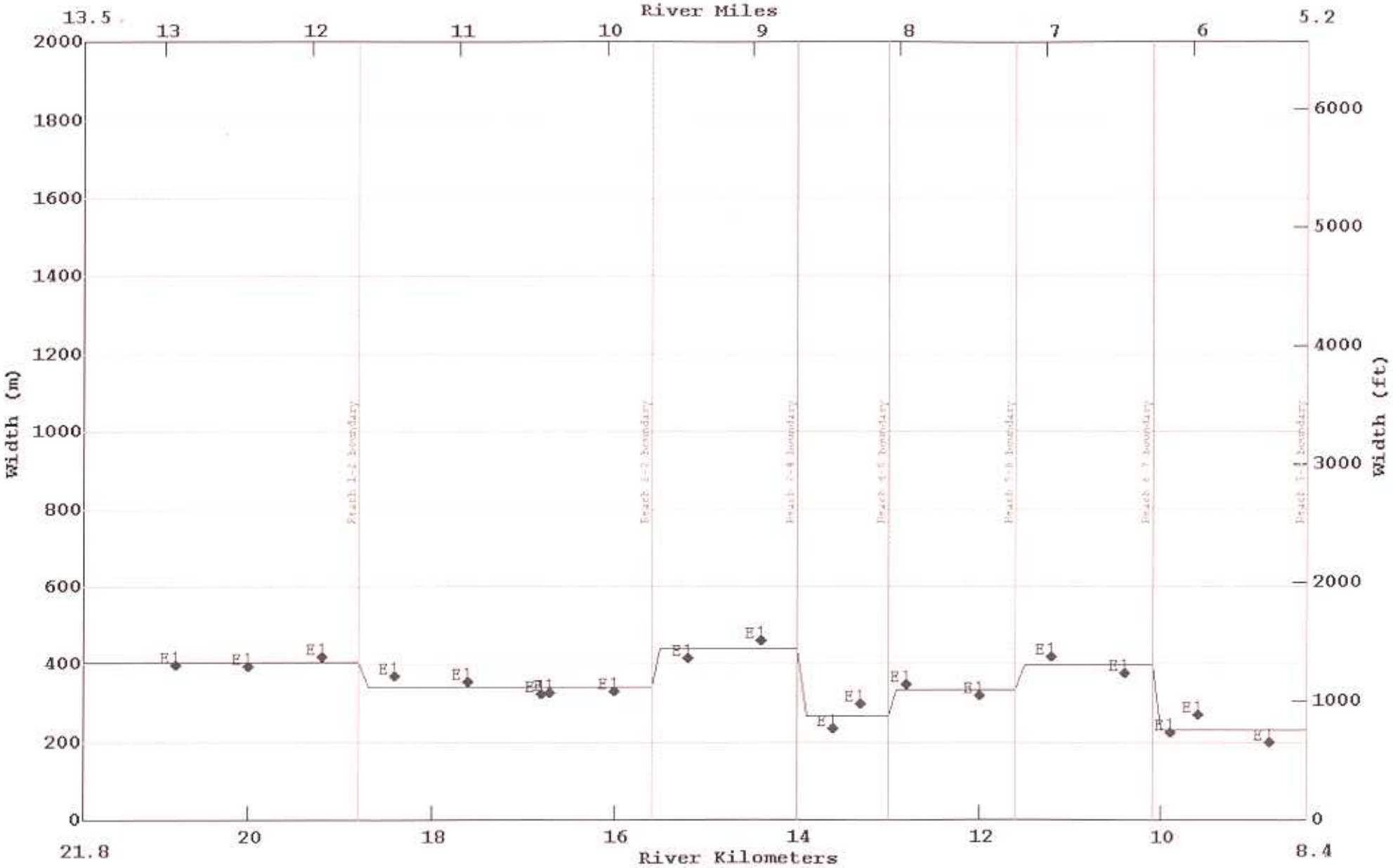
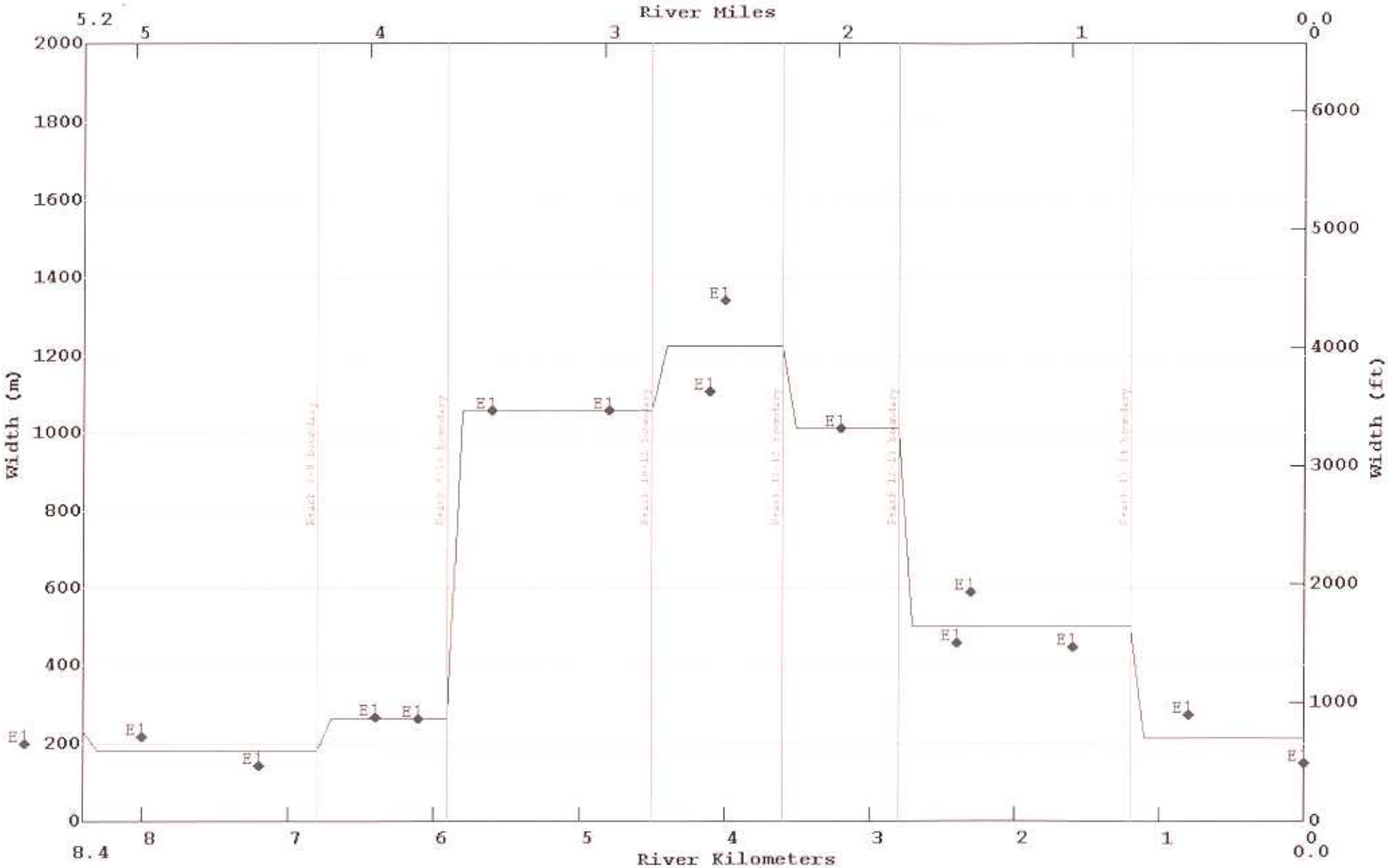
APPENDIX E

Plots of Modeled Depths and Widths

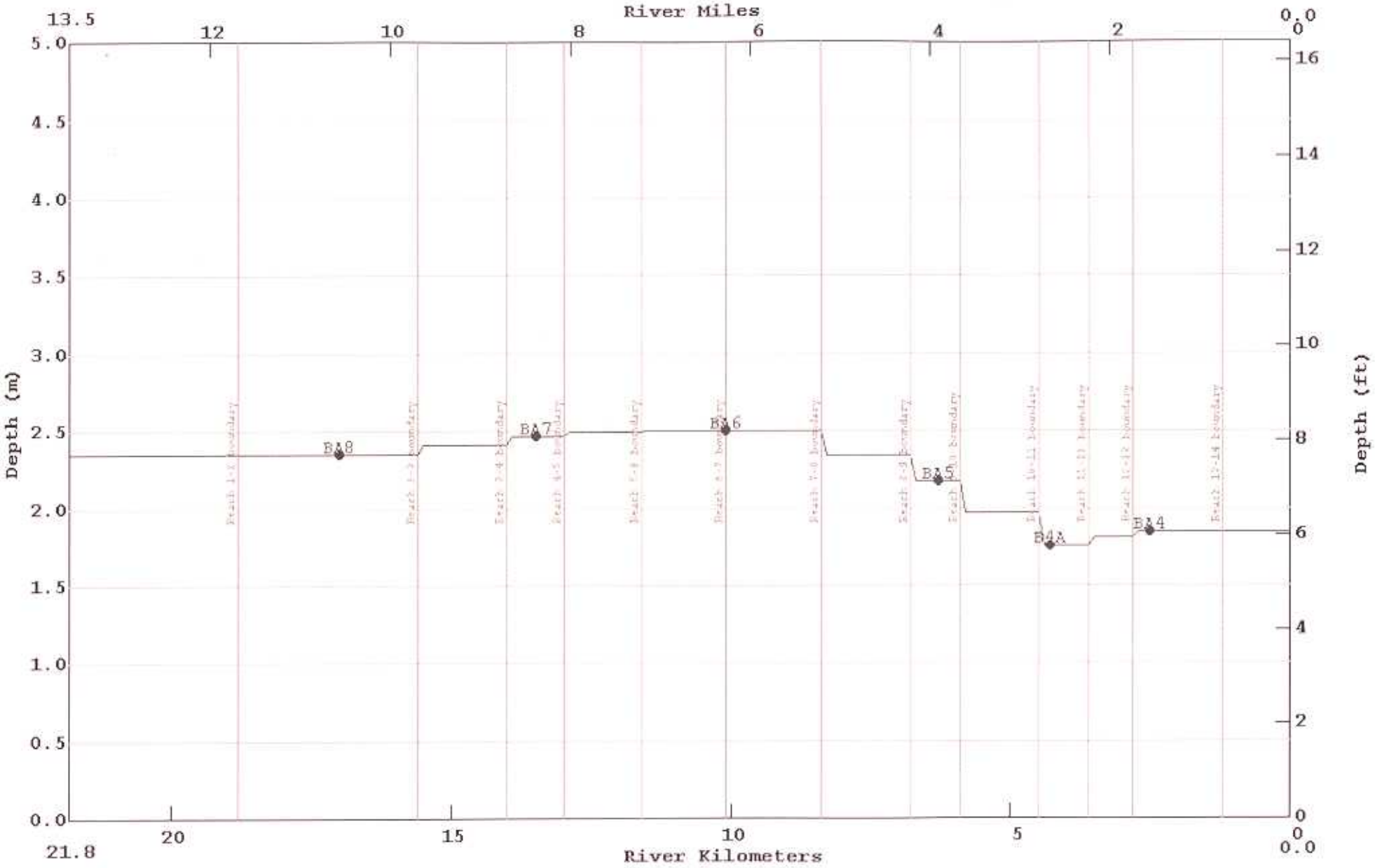
LA-QUAL Version 6.02 Run at 12:49 on 01/23/2004 File R:\projects\3110-051\la-qual\des_all\calib\bda_cal8.txt
DO calibration min= 231.00 max= 440.00
BAYOU DES ALLEMANDS REACHES 1-7



LA-QUAL Version 6.02 Run at 12:49 on 01/23/2004 File R:\projects\3110-051\la-qual\des_all\calib\bda_cal8.txt
DO calibration min= 180.00 max= 1224.00
BAYOU DES ALLEMANDS REACHES 7-14



LA-QUAL Version 6.02 Run at 12:49 on 01/23/2004 File R:\projects\3110-051\la-qual\des_all\calib\bda_cal8.txt
DO calibration min= 1.76 max= 2.50
BAYOU DES ALLEMANDS REACHES 1-14



APPENDIX F

Flow Calculations

AVERAGE FLOW CALCULATIONS USING ADCP MEASUREMENTS
Averaging period is from 9/10/02 16:00 to 9/11/02 16:00

BDA-9:

Date/Time	Flow value (cfs)	Basis for flow value	"Area under curve" calculations: Time between 2 flow values (hrs)	Average of 2 flow values (cfs)	"Area under curve" (hr*cfs)
9/10/02 14:16	-2863	ADCP			
9/10/02 16:00	-2782	Interpol.			
			17.1	-2381	-40607
9/11/02 09:03	-1979	ADCP			
			4.4	-286	-1242
9/11/02 13:24	1408	ADCP			
			2.6	2417	6264
9/11/02 16:00	3426	Extrapol.			
		Totals =	24.0		-35585

Average flow for BDA-9 = -35585 / 24.0 = -1483 cfs

BDA-1:

Date/Time	Flow value (cfs)	Basis for flow value	"Area under curve" calculations: Time between 2 flow values (hrs)	Average of 2 flow values (cfs)	"Area under curve" (hr*cfs)
9/10/02 16:00	-3028	Extrapol.			
			0.2	-3020	-680
9/10/02 16:13	-3012	ADCP			
			18.8	-2330	-43678
9/11/02 10:58	-1647	ADCP			
			3.8	-1077	-4120
9/11/02 14:48	-507	ADCP			
			1.2	-328	-394
9/11/02 16:00	-149	Extrapol.			
		Totals =	24.0		-48871

Average flow for BDA-1 = -48871 / 24.0 = -2036 cfs

Amount of inflow needed between BDA-1 and BDA-9 = 554 cfs

Net Flow from Tributaries

Company Canal	-134 cfs
Unnamed Canal B	117 cfs
Unnamed Canal A	-61 cfs

-78 cfs

Incremental Flow for whole stream =

554 cfs, flow difference

78 cfs, I must make up for what I lost inaddition to the difference

631.563368 cfs

Total length of stream = 21.8 km 35.319837 ft3/m3

28.97 cfs/km

Reach beg (km)	Reach End (km)	Reach length (km)	Incr flow (cfs)	Incr flow (m3/s)
21.8	18.8	3.0	86.91	2.4607
18.8	15.6	3.2	92.704	2.6247
15.6	14.0	1.6	46.352	1.3124
14.0	13.0	1.0	28.97	0.8202
13.0	11.6	1.4	40.558	1.1483
11.6	10.1	1.5	43.455	1.2303
10.1	8.4	1.7	49.249	1.3944
8.4	6.8	1.6	46.352	1.3124
6.8	5.9	0.9	26.073	0.7382
5.9	4.5	1.4	40.558	1.1483
4.5	3.6	0.9	26.073	0.7382
3.6	2.8	0.8	23.176	0.6562
2.8	1.2	1.6	46.352	1.3124
1.2	0.0	1.2	34.764	0.9843

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APPENDIX G1

Minimum DO Calculations

Table G1.1.Continuous Data Used for BDA2

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MIN	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MIN DO (mg/L)at sampling location
9/11/2002	0:00	6.51	1.230624					
9/11/2002	0:15	6.62	1.251418					
9/11/2002	0:30	6.62	1.251418					
9/11/2002	0:45	6.77	1.279773					
9/11/2002	1:00	6.53	1.234405					
9/11/2002	1:15	6.21	1.173913					
9/11/2002	1:30	6.35	1.200378					
9/11/2002	1:45	6.33	1.196597					
9/11/2002	2:00	6.20	1.172023					
9/11/2002	2:15	6.38	1.206049					
9/11/2002	2:30	6.05	1.143667					
9/11/2002	2:45	6.17	1.166352					
9/11/2002	3:00	6.15	1.162571					
9/11/2002	3:15	6.07	1.147448					
9/11/2002	3:30	5.98	1.130435					
9/11/2002	3:45	5.97	1.128544					
9/11/2002	4:00	5.95	1.124764					
9/11/2002	4:15	5.85	1.10586					
9/11/2002	4:30	5.77	1.090737					
9/11/2002	4:45	5.74	1.085066					
9/11/2002	5:00	5.78	1.092628					
9/11/2002	5:15	5.64	1.066163					
9/11/2002	5:30	5.55	1.049149					
9/11/2002	5:45	5.55	1.049149					
9/11/2002	6:00	5.61	1.060491					
9/11/2002	6:15	5.64	1.066163					
9/11/2002	6:30	5.54	1.047259					
9/11/2002	6:45	5.48	1.035917					
9/11/2002	7:00	5.35	1.011342					
9/11/2002	7:15	5.29	1					
9/11/2002	7:30	5.44	1.028355					
9/11/2002	7:45	5.38	1.017013					
9/11/2002	8:00	5.33	1.007561					
9/11/2002	8:15	5.32	1.005671	BDA1	9/11/2002	8:15	5.53	5.50
9/11/2002	8:30	5.39	1.018904					
9/11/2002	8:45	5.49	1.037807					
9/11/2002	9:00	5.67	1.071834					
9/11/2002	9:15	5.72	1.081285					
9/11/2002	9:30	5.64	1.066163	BDA3	9/11/2002	9:30	6.27	5.88
9/11/2002	9:45	5.68	1.073724					
9/11/2002	10:00	5.87	1.109641	DP1	9/11/2002	10:00	6.77	6.10
9/11/2002	10:15	5.90	1.115312					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MIN	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MIN DO (mg/L)at sampling location
9/11/2002	10:30	5.90	1.115312					
9/11/2002	10:45	6.10	1.153119					
9/11/2002	11:00	6.15	1.162571					
9/11/2002	11:15	6.15	1.162571					
9/11/2002	11:30	6.20	1.172023					
9/11/2002	11:45	6.39	1.20794					
9/11/2002	12:00	6.59	1.245747					
9/11/2002	12:15	6.69	1.26465					
9/11/2002	12:30	6.59	1.245747					
9/11/2002	12:45	6.58	1.243856					
9/11/2002	13:00	6.96	1.31569					
9/11/2002	13:15	7.05	1.332703					
9/11/2002	13:30	6.86	1.296786					
9/11/2002	13:45	7.23	1.36673					
9/11/2002	14:00	7.15	1.351607					
9/11/2002	14:15	6.75	1.275992					
9/11/2002	14:30	6.78	1.281664					
9/11/2002	14:45	6.52	1.232514					
9/11/2002	15:00	6.87	1.298677					
9/11/2002	15:15	6.90	1.304348					
9/11/2002	15:30	7.24	1.36862					
9/11/2002	15:45	7.63	1.442344					
9/11/2002	16:00	7.98	1.508507					
9/11/2002	16:15	7.69	1.453686					
9/11/2002	16:30	7.85	1.483932					
9/11/2002	16:45	7.95	1.502836					
9/11/2002	17:00	7.68	1.451796					
9/11/2002	17:15	7.80	1.47448					
9/11/2002	17:30	8.08	1.52741					
9/11/2002	17:45	8.04	1.519849					
9/11/2002	18:00	7.72	1.459357					
9/11/2002	18:15	8.17	1.544423					
9/11/2002	18:30	8.31	1.570888					
9/11/2002	18:45	8.19	1.548204					
9/11/2002	19:00	8.23	1.555766					
9/11/2002	19:15	8.30	1.568998					
9/11/2002	19:30	8.46	1.599244					
9/11/2002	19:45	8.44	1.595463					
9/11/2002	20:00	8.38	1.584121					
9/11/2002	20:15	8.25	1.559546					
9/11/2002	20:30	8.33	1.574669					
9/11/2002	20:45	8.23	1.555766					
9/11/2002	21:00	8.12	1.534972					
9/11/2002	21:15	8.01	1.514178					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MIN	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MIN DO (mg/L)at sampling location
9/11/2002	21:30	7.82	1.478261					
9/11/2002	21:45	7.70	1.455577					
9/11/2002	22:00	7.73	1.461248					
9/11/2002	22:15	7.76	1.466919					
9/11/2002	22:30	7.58	1.432892					
9/11/2002	22:45	7.48	1.413989					
9/11/2002	23:00	7.47	1.412098					
9/11/2002	23:15	7.41	1.400756					
9/11/2002	23:30	7.00	1.323251					
9/11/2002	23:45	6.74	1.274102					
9/12/2002	0:00	6.80	1.285444					
	MIN =	5.29						

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Table G1.2. Continuous Data Used for BDA5a(1)

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MIN	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MIN DO (mg/L)at sampling location
9/11/2002	0:00	6.23	1.143119					
9/11/2002	0:15	6.38	1.170642					
9/11/2002	0:30	6.39	1.172477					
9/11/2002	0:45	6.39	1.172477					
9/11/2002	1:00	6.39	1.172477					
9/11/2002	1:15	6.07	1.113761					
9/11/2002	1:30	6.15	1.12844					
9/11/2002	1:45	6.20	1.137615					
9/11/2002	2:00	6.35	1.165138					
9/11/2002	2:15	6.36	1.166972					
9/11/2002	2:30	6.42	1.177982					
9/11/2002	2:45	6.46	1.185321					
9/11/2002	3:00	6.38	1.170642					
9/11/2002	3:15	6.25	1.146789					
9/11/2002	3:30	6.27	1.150459					
9/11/2002	3:45	5.94	1.089908					
9/11/2002	4:00	6.19	1.13578					
9/11/2002	4:15	6.34	1.163303					
9/11/2002	4:30	5.91	1.084404					
9/11/2002	4:45	6.37	1.168807					
9/11/2002	5:00	6.38	1.170642					
9/11/2002	5:15	6.37	1.168807					
9/11/2002	5:30	6.31	1.157798					
9/11/2002	5:45	6.27	1.150459					
9/11/2002	6:00	6.30	1.155963					
9/11/2002	6:15	6.22	1.141284					
9/11/2002	6:30	6.25	1.146789					
9/11/2002	6:45	6.22	1.141284					
9/11/2002	7:00	6.19	1.13578					
9/11/2002	7:15	6.12	1.122936					
9/11/2002	7:30	6.06	1.111927					
9/11/2002	7:45	6.05	1.110092					
9/11/2002	8:00	6.11	1.121101					
9/11/2002	8:15	6.12	1.122936					
9/11/2002	8:30	6.07	1.113761					
9/11/2002	8:45	6.11	1.121101					
9/11/2002	9:00	6.16	1.130275					
9/11/2002	9:15	6.20	1.137615					
9/11/2002	9:30	6.23	1.143119	BG2	9/11/2002	9:30	5.73	5.01
9/11/2002	9:45	6.25	1.146789					
9/11/2002	10:00	6.39	1.172477					
9/11/2002	10:15	6.27	1.150459					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MIN	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MIN DO (mg/L)at sampling location
9/11/2002	10:30	5.67	1.040367					
9/11/2002	10:45	5.79	1.062385					
9/11/2002	11:00	5.45	1					
9/11/2002	11:15	6.15	1.12844					
9/11/2002	11:30	6.33	1.161468					
9/11/2002	11:45	6.67	1.223853					
9/11/2002	12:00	5.89	1.080734					
9/11/2002	12:15	6.13	1.124771					
9/11/2002	12:30	6.31	1.157798					
9/11/2002	12:45	6.10	1.119266					
9/11/2002	13:00	6.48	1.188991					
9/11/2002	13:15	6.39	1.172477					
9/11/2002	13:30	6.38	1.170642					
9/11/2002	13:45	6.59	1.209174					
9/11/2002	14:00	6.93	1.27156					
9/11/2002	14:15	7.05	1.293578					
9/11/2002	14:30	7.11	1.304587					
9/11/2002	14:45	6.93	1.27156					
9/11/2002	15:00	6.56	1.20367					
9/11/2002	15:15	7.54	1.383486					
9/11/2002	15:30	7.83	1.436697					
9/11/2002	15:45	8.47	1.554128					
9/11/2002	16:00	8.16	1.497248					
9/11/2002	16:15	8.26	1.515596					
9/11/2002	16:30	7.09	1.300917					
9/11/2002	16:45	6.09	1.117431					
9/11/2002	17:00	7.29	1.337615					
9/11/2002	17:15	6.75	1.238532					
9/11/2002	17:30	7.45	1.366972					
9/11/2002	17:45	6.61	1.212844					
9/11/2002	18:00	6.86	1.258716					
9/11/2002	18:15	6.73	1.234862					
9/11/2002	18:30	7.45	1.366972					
9/11/2002	18:45	7.87	1.444037					
9/11/2002	19:00	8.35	1.53211					
9/11/2002	19:15	8.33	1.52844					
9/11/2002	19:30	8.43	1.546789					
9/11/2002	19:45	8.45	1.550459					
9/11/2002	20:00	8.42	1.544954					
9/11/2002	20:15	7.71	1.414679					
9/11/2002	20:30	7.76	1.423853					
9/11/2002	20:45	7.78	1.427523					
9/11/2002	21:00	8.06	1.478899					
9/11/2002	21:15	7.71	1.414679					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MIN	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MIN DO (mg/L)at sampling location
9/11/2002	21:30	7.39	1.355963					
9/11/2002	21:45	7.31	1.341284					
9/11/2002	22:00	7.33	1.344954					
9/11/2002	22:15	7.45	1.366972					
9/11/2002	22:30	7.61	1.39633					
9/11/2002	22:45	7.95	1.458716					
9/11/2002	23:00	8.04	1.475229					
9/11/2002	23:15	7.87	1.444037					
9/11/2002	23:30	7.91	1.451376					
9/11/2002	23:45	7.79	1.429358					
9/12/2002	0:00	7.70	1.412844					
	MIN =	5.45						

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Table G1.3. Continuous Data Used for BDA6

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MIN	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MIN DO (mg/L)at sampling location
9/11/2002	0:00	6.63	1.076299					
9/11/2002	0:15	6.29	1.021104					
9/11/2002	0:30	6.59	1.069805					
9/11/2002	0:45	6.62	1.074675					
9/11/2002	1:00	6.58	1.068182					
9/11/2002	1:15	6.58	1.068182					
9/11/2002	1:30	6.63	1.076299					
9/11/2002	1:45	6.60	1.071429					
9/11/2002	2:00	6.53	1.060065					
9/11/2002	2:15	6.60	1.071429					
9/11/2002	2:30	6.55	1.063312					
9/11/2002	2:45	6.57	1.066558					
9/11/2002	3:00	6.16	1					
9/11/2002	3:15	6.57	1.066558					
9/11/2002	3:30	6.57	1.066558					
9/11/2002	3:45	6.59	1.069805					
9/11/2002	4:00	6.61	1.073052					
9/11/2002	4:15	6.55	1.063312					
9/11/2002	4:30	6.62	1.074675					
9/11/2002	4:45	6.50	1.055195					
9/11/2002	5:00	6.57	1.066558					
9/11/2002	5:15	6.48	1.051948					
9/11/2002	5:30	6.47	1.050325					
9/11/2002	5:45	6.69	1.086039					
9/11/2002	6:00	6.46	1.048701					
9/11/2002	6:15	6.49	1.053571					
9/11/2002	6:30	6.50	1.055195					
9/11/2002	6:45	6.47	1.050325					
9/11/2002	7:00	6.42	1.042208					
9/11/2002	7:15	6.40	1.038961					
9/11/2002	7:30	6.43	1.043831					
9/11/2002	7:45	6.44	1.045455					
9/11/2002	8:00	6.46	1.048701					
9/11/2002	8:15	6.66	1.081169					
9/11/2002	8:30	6.32	1.025974					
9/11/2002	8:45	6.48	1.051948					
9/11/2002	9:00	6.59	1.069805					
9/11/2002	9:15	6.59	1.069805					
9/11/2002	9:30	6.53	1.060065					
9/11/2002	9:45	6.56	1.064935					
9/11/2002	10:00	6.46	1.048701					
9/11/2002	10:15	6.48	1.051948					

Continuous Monitoring Data

DATE	TIME	DO (mg/L)	DO as fraction of daily MIN
9/11/2002	10:30	6.53	1.060065
9/11/2002	10:45	6.52	1.058442
9/11/2002	11:00	6.80	1.103896
9/11/2002	11:15	6.80	1.103896
9/11/2002	11:30	7.16	1.162338
9/11/2002	11:45	7.32	1.188312
9/11/2002	12:00	7.12	1.155844
9/11/2002	12:15	7.16	1.162338
9/11/2002	12:30	7.53	1.222403
9/11/2002	12:45	7.26	1.178571
9/11/2002	13:00	7.36	1.194805
9/11/2002	13:15	7.26	1.178571
9/11/2002	13:30	7.60	1.233766
9/11/2002	13:45	7.62	1.237013
9/11/2002	14:00	7.75	1.258117
9/11/2002	14:15	8.04	1.305195
9/11/2002	14:30	8.23	1.336039
9/11/2002	14:45	8.19	1.329545
9/11/2002	15:00	8.64	1.402597
9/11/2002	15:15	8.88	1.441558
9/11/2002	15:30	8.56	1.38961
9/11/2002	15:45	7.41	1.202922
9/11/2002	16:00	8.34	1.353896
9/11/2002	16:15	7.60	1.233766
9/11/2002	16:30	8.49	1.378247
9/11/2002	16:45	8.27	1.342532
9/11/2002	17:00	7.80	1.266234
9/11/2002	17:15	7.41	1.202922
9/11/2002	17:30	7.93	1.287338
9/11/2002	17:45	8.10	1.314935
9/11/2002	18:00	8.15	1.323052
9/11/2002	18:15	7.93	1.287338
9/11/2002	18:30	7.99	1.297078
9/11/2002	18:45	7.58	1.230519
9/11/2002	19:00	7.52	1.220779
9/11/2002	19:15	7.45	1.209416
9/11/2002	19:30	6.77	1.099026
9/11/2002	19:45	6.82	1.107143
9/11/2002	20:00	6.79	1.102273
9/11/2002	20:15	6.93	1.125
9/11/2002	20:30	6.76	1.097403
9/11/2002	20:45	6.92	1.123377
9/11/2002	21:00	7.01	1.137987
9/11/2002	21:15	7.45	1.209416

Instantaneous Data

Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MIN DO (mg/L)at sampling location
UCA1	9/11/2002	11:25	7.53	6.48
BDA7	9/11/2002	12:05	6.37	5.51

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MIN	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MIN DO (mg/L)at sampling location
9/11/2002	21:30	7.50	1.217532					
9/11/2002	21:45	8.01	1.300325					
9/11/2002	22:00	7.79	1.26461					
9/11/2002	22:15	7.86	1.275974					
9/11/2002	22:30	7.87	1.277597					
9/11/2002	22:45	8.04	1.305195					
9/11/2002	23:00	8.16	1.324675					
9/11/2002	23:15	8.05	1.306818					
9/11/2002	23:30	7.93	1.287338					
9/11/2002	23:45	7.71	1.251623					
9/12/2002	0:00	7.34	1.191558					
	MIN =	6.16						

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Table G1.4. Continuous Data Used for BDA9(2)

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MIN	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MIN DO (mg/L)at sampling location
9/11/2002	0:00	7.18	1.7343					
9/11/2002	0:15	7.14	1.724638					
9/11/2002	0:30	7.11	1.717391					
9/11/2002	0:45	7.19	1.736715					
9/11/2002	1:00	7.07	1.707729					
9/11/2002	1:15	7.03	1.698068					
9/11/2002	1:30	6.99	1.688406					
9/11/2002	1:45	6.88	1.661836					
9/11/2002	2:00	6.92	1.671498					
9/11/2002	2:15	6.72	1.623188					
9/11/2002	2:30	6.57	1.586957					
9/11/2002	2:45	6.62	1.599034					
9/11/2002	3:00	6.44	1.555556					
9/11/2002	3:15	6.45	1.557971					
9/11/2002	3:30	6.29	1.519324					
9/11/2002	3:45	6.36	1.536232					
9/11/2002	4:00	6.53	1.577295					
9/11/2002	4:15	6.43	1.55314					
9/11/2002	4:30	6.29	1.519324					
9/11/2002	4:45	6.29	1.519324					
9/11/2002	5:00	6.61	1.596618					
9/11/2002	5:15	6.46	1.560386					
9/11/2002	5:30	6.49	1.567633					
9/11/2002	5:45	6.4	1.545894					
9/11/2002	6:00	6.62	1.599034					
9/11/2002	6:15	6.37	1.538647					
9/11/2002	6:30	6.42	1.550725					
9/11/2002	6:45	6.43	1.55314					
9/11/2002	7:00	6.45	1.557971					
9/11/2002	7:15	6.52	1.574879					
9/11/2002	7:30	6.51	1.572464					
9/11/2002	7:45	6.5	1.570048					
9/11/2002	8:00	6.4	1.545894					
9/11/2002	8:15	6.56	1.584541					
9/11/2002	8:30	6.55	1.582126	LS1	9/11/2002	8:35	7.13	4.506595
9/11/2002	8:45	6.54	1.57971					
9/11/2002	9:00	6.81	1.644928					
9/11/2002	9:15	6.56	1.584541					
9/11/2002	9:30	6.87	1.65942	CC1	9/11/2002	9:35	4.91	2.958865
9/11/2002	9:45	6.58	1.589372					
9/11/2002	10:00	6.63	1.601449					
9/11/2002	10:15	6.83	1.649758					

Continuous Monitoring Data

DATE	TIME	DO (mg/L)	DO as fraction of daily MIN
9/11/2002	10:30	7.13	1.722222
9/11/2002	10:45	6.85	1.654589
9/11/2002	11:00	7.03	1.698068
9/11/2002	11:15	6.99	1.688406
9/11/2002	11:30	6.62	1.599034
9/11/2002	11:45	6.81	1.644928
9/11/2002	12:00	7.08	1.710145
9/11/2002	12:15	4.8	1.15942
9/11/2002	12:30	5.33	1.28744
9/11/2002	12:45	5.51	1.330918
9/11/2002	13:00	5.13	1.23913
9/11/2002	13:15	4.74	1.144928
9/11/2002	13:30	5.14	1.241546
9/11/2002	13:45	5.31	1.282609
9/11/2002	14:00	6.25	1.509662
9/11/2002	14:15	7.07	1.707729
9/11/2002	14:30	7.08	1.710145
9/11/2002	14:45	6.43	1.55314
9/11/2002	15:00	7.38	1.782609
9/11/2002	15:15	7.5	1.811594
9/11/2002	15:30	7.86	1.898551
9/11/2002	15:45	6.48	1.565217
9/11/2002	16:00	7.14	1.724638
9/11/2002	16:15	7.42	1.792271
9/11/2002	16:30	7.17	1.731884
9/11/2002	16:45	6.02	1.454106
9/11/2002	17:00	5.01	1.210145
9/11/2002	17:15	5.55	1.34058
9/11/2002	17:30	5.09	1.229469
9/11/2002	17:45	5.07	1.224638
9/11/2002	18:00	6.36	1.536232
9/11/2002	18:15	5.22	1.26087
9/11/2002	18:30	5.49	1.326087
9/11/2002	18:45	5.28	1.275362
9/11/2002	19:00	4.36	1.05314
9/11/2002	19:15	4.18	1.009662
9/11/2002	19:30	4.64	1.120773
9/11/2002	19:45	5.37	1.297101
9/11/2002	20:00	7.02	1.695652
9/11/2002	20:15	6.64	1.603865
9/11/2002	20:30	6.61	1.596618
9/11/2002	20:45	7.62	1.84058
9/11/2002	21:00	5.23	1.263285
9/11/2002	21:15	4.74	1.144928

Instantaneous Data

Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MIN DO (mg/L)at sampling location
BDA8	9/11/2002	10:35	6.25	3.629032
UCB1	9/11/2002	11:35	2.97	1.857372

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MIN	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MIN DO (mg/L)at sampling location
9/11/2002	21:30	5.04	1.217391					
9/11/2002	21:45	5.31	1.282609					
9/11/2002	22:00	4.56	1.101449					
9/11/2002	22:15	4.62	1.115942					
9/11/2002	22:30	4.37	1.055556					
9/11/2002	22:45	4.19	1.012077					
9/11/2002	23:00	4.56	1.101449					
9/11/2002	23:15	4.5	1.086957					
9/11/2002	23:30	4.16	1.004831					
9/11/2002	23:45	4.34	1.048309					
9/12/2002	0:00	4.14	1					
	MIN =	4.14						

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APPENDIX G2

Average DO Calculations

Table G2.1. Continuous Data Used for BDA2

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily average	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
9/11/2002	0:00	6.51	0.966348					
9/11/2002	0:15	6.62	0.982677					
9/11/2002	0:30	6.62	0.982677					
9/11/2002	0:45	6.77	1.004943					
9/11/2002	1:00	6.53	0.969317					
9/11/2002	1:15	6.21	0.921816					
9/11/2002	1:30	6.35	0.942598					
9/11/2002	1:45	6.33	0.939629					
9/11/2002	2:00	6.20	0.920332					
9/11/2002	2:15	6.38	0.947051					
9/11/2002	2:30	6.05	0.898066					
9/11/2002	2:45	6.17	0.915879					
9/11/2002	3:00	6.15	0.91291					
9/11/2002	3:15	6.07	0.901034					
9/11/2002	3:30	5.98	0.887675					
9/11/2002	3:45	5.97	0.88619					
9/11/2002	4:00	5.95	0.883222					
9/11/2002	4:15	5.85	0.868378					
9/11/2002	4:30	5.77	0.856502					
9/11/2002	4:45	5.74	0.852049					
9/11/2002	5:00	5.78	0.857987					
9/11/2002	5:15	5.64	0.837205					
9/11/2002	5:30	5.55	0.823845					
9/11/2002	5:45	5.55	0.823845					
9/11/2002	6:00	5.61	0.832752					
9/11/2002	6:15	5.64	0.837205					
9/11/2002	6:30	5.54	0.822361					
9/11/2002	6:45	5.48	0.813455					
9/11/2002	7:00	5.35	0.794157					
9/11/2002	7:15	5.29	0.785251					
9/11/2002	7:30	5.44	0.807517					
9/11/2002	7:45	5.38	0.79861					
9/11/2002	8:00	5.33	0.791188					
9/11/2002	8:15	5.32	0.789704	BDA1	9/11/2002	8:15	5.53	7.00
9/11/2002	8:30	5.39	0.800095					
9/11/2002	8:45	5.49	0.814939					
9/11/2002	9:00	5.67	0.841658					
9/11/2002	9:15	5.72	0.84908					
9/11/2002	9:30	5.64	0.837205	BDA3	9/11/2002	9:30	6.27	7.49
9/11/2002	9:45	5.68	0.843143					
9/11/2002	10:00	5.87	0.871346	DP1	9/11/2002	10:00	6.77	7.77

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily average	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
9/11/2002	10:15	5.90	0.8758					
9/11/2002	10:30	5.90	0.8758					
9/11/2002	10:45	6.10	0.905488					
9/11/2002	11:00	6.15	0.91291					
9/11/2002	11:15	6.15	0.91291					
9/11/2002	11:30	6.20	0.920332					
9/11/2002	11:45	6.39	0.948535					
9/11/2002	12:00	6.59	0.978224					
9/11/2002	12:15	6.69	0.993068					
9/11/2002	12:30	6.59	0.978224					
9/11/2002	12:45	6.58	0.976739					
9/11/2002	13:00	6.96	1.033147					
9/11/2002	13:15	7.05	1.046506					
9/11/2002	13:30	6.86	1.018303					
9/11/2002	13:45	7.23	1.073226					
9/11/2002	14:00	7.15	1.06135					
9/11/2002	14:15	6.75	1.001974					
9/11/2002	14:30	6.78	1.006427					
9/11/2002	14:45	6.52	0.967833					
9/11/2002	15:00	6.87	1.019787					
9/11/2002	15:15	6.90	1.02424					
9/11/2002	15:30	7.24	1.07471					
9/11/2002	15:45	7.63	1.132602					
9/11/2002	16:00	7.98	1.184556					
9/11/2002	16:15	7.69	1.141508					
9/11/2002	16:30	7.85	1.165259					
9/11/2002	16:45	7.95	1.180103					
9/11/2002	17:00	7.68	1.140024					
9/11/2002	17:15	7.80	1.157837					
9/11/2002	17:30	8.08	1.1994					
9/11/2002	17:45	8.04	1.193462					
9/11/2002	18:00	7.72	1.145961					
9/11/2002	18:15	8.17	1.21276					
9/11/2002	18:30	8.31	1.233541					
9/11/2002	18:45	8.19	1.215729					
9/11/2002	19:00	8.23	1.221666					
9/11/2002	19:15	8.30	1.232057					
9/11/2002	19:30	8.46	1.255808					
9/11/2002	19:45	8.44	1.252839					
9/11/2002	20:00	8.38	1.243932					
9/11/2002	20:15	8.25	1.224635					
9/11/2002	20:30	8.33	1.23651					
9/11/2002	20:45	8.23	1.221666					

Continuous Monitoring Data			
DATE	TIME	DO (mg/L)	DO as fraction of daily average
9/11/2002	21:00	8.12	1.205338
9/11/2002	21:15	8.01	1.189009
9/11/2002	21:30	7.82	1.160806
9/11/2002	21:45	7.70	1.142993
9/11/2002	22:00	7.73	1.147446
9/11/2002	22:15	7.76	1.151899
9/11/2002	22:30	7.58	1.12518
9/11/2002	22:45	7.48	1.110336
9/11/2002	23:00	7.47	1.108851
9/11/2002	23:15	7.41	1.099945
9/11/2002	23:30	7.00	1.039084
9/11/2002	23:45	6.74	1.00049
9/12/2002	0:00	6.80	1.009396
	AVG =	6.74	

Instantaneous Data				
Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time

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Table G2.2. Continuous Data Used for BDA5a(1)

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily average	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
9/11/2002	0:00	6.23	0.917289					
9/11/2002	0:15	6.38	0.939375					
9/11/2002	0:30	6.39	0.940847					
9/11/2002	0:45	6.39	0.940847					
9/11/2002	1:00	6.39	0.940847					
9/11/2002	1:15	6.07	0.893731					
9/11/2002	1:30	6.15	0.90551					
9/11/2002	1:45	6.20	0.912872					
9/11/2002	2:00	6.35	0.934957					
9/11/2002	2:15	6.36	0.93643					
9/11/2002	2:30	6.42	0.945264					
9/11/2002	2:45	6.46	0.951154					
9/11/2002	3:00	6.38	0.939375					
9/11/2002	3:15	6.25	0.920234					
9/11/2002	3:30	6.27	0.923179					
9/11/2002	3:45	5.94	0.87459					
9/11/2002	4:00	6.19	0.9114					
9/11/2002	4:15	6.34	0.933485					
9/11/2002	4:30	5.91	0.870173					
9/11/2002	4:45	6.37	0.937902					
9/11/2002	5:00	6.38	0.939375					
9/11/2002	5:15	6.37	0.937902					
9/11/2002	5:30	6.31	0.929068					
9/11/2002	5:45	6.27	0.923179					
9/11/2002	6:00	6.30	0.927596					
9/11/2002	6:15	6.22	0.915817					
9/11/2002	6:30	6.25	0.920234					
9/11/2002	6:45	6.22	0.915817					
9/11/2002	7:00	6.19	0.9114					
9/11/2002	7:15	6.12	0.901093					
9/11/2002	7:30	6.06	0.892259					
9/11/2002	7:45	6.05	0.890786					
9/11/2002	8:00	6.11	0.899621					
9/11/2002	8:15	6.12	0.901093					
9/11/2002	8:30	6.07	0.893731					
9/11/2002	8:45	6.11	0.899621					
9/11/2002	9:00	6.16	0.906982					
9/11/2002	9:15	6.20	0.912872					
9/11/2002	9:30	6.23	0.917289	BG2	9/11/2002	9:30	5.73	6.246668
9/11/2002	9:45	6.25	0.920234					
9/11/2002	10:00	6.39	0.940847					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily average	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
9/11/2002	10:15	6.27	0.923179					
9/11/2002	10:30	5.67	0.834836					
9/11/2002	10:45	5.79	0.852505					
9/11/2002	11:00	5.45	0.802444					
9/11/2002	11:15	6.15	0.90551					
9/11/2002	11:30	6.33	0.932013					
9/11/2002	11:45	6.67	0.982073					
9/11/2002	12:00	5.89	0.867228					
9/11/2002	12:15	6.13	0.902565					
9/11/2002	12:30	6.31	0.929068					
9/11/2002	12:45	6.10	0.898148					
9/11/2002	13:00	6.48	0.954098					
9/11/2002	13:15	6.39	0.940847					
9/11/2002	13:30	6.38	0.939375					
9/11/2002	13:45	6.59	0.970294					
9/11/2002	14:00	6.93	1.020355					
9/11/2002	14:15	7.05	1.038024					
9/11/2002	14:30	7.11	1.046858					
9/11/2002	14:45	6.93	1.020355					
9/11/2002	15:00	6.56	0.965877					
9/11/2002	15:15	7.54	1.11017					
9/11/2002	15:30	7.83	1.152869					
9/11/2002	15:45	8.47	1.247101					
9/11/2002	16:00	8.16	1.201457					
9/11/2002	16:15	8.26	1.216181					
9/11/2002	16:30	7.09	1.043913					
9/11/2002	16:45	6.09	0.896676					
9/11/2002	17:00	7.29	1.073361					
9/11/2002	17:15	6.75	0.993852					
9/11/2002	17:30	7.45	1.096919					
9/11/2002	17:45	6.61	0.973239					
9/11/2002	18:00	6.86	1.010049					
9/11/2002	18:15	6.73	0.990908					
9/11/2002	18:30	7.45	1.096919					
9/11/2002	18:45	7.87	1.158758					
9/11/2002	19:00	8.35	1.229432					
9/11/2002	19:15	8.33	1.226488					
9/11/2002	19:30	8.43	1.241211					
9/11/2002	19:45	8.45	1.244156					
9/11/2002	20:00	8.42	1.239739					
9/11/2002	20:15	7.71	1.1352					
9/11/2002	20:30	7.76	1.142562					
9/11/2002	20:45	7.78	1.145507					

Continuous Monitoring Data			
DATE	TIME	DO (mg/L)	DO as fraction of daily average
9/11/2002	21:00	8.06	1.186733
9/11/2002	21:15	7.71	1.1352
9/11/2002	21:30	7.39	1.088084
9/11/2002	21:45	7.31	1.076305
9/11/2002	22:00	7.33	1.07925
9/11/2002	22:15	7.45	1.096919
9/11/2002	22:30	7.61	1.120477
9/11/2002	22:45	7.95	1.170537
9/11/2002	23:00	8.04	1.183789
9/11/2002	23:15	7.87	1.158758
9/11/2002	23:30	7.91	1.164648
9/11/2002	23:45	7.79	1.146979
9/12/2002	0:00	7.70	1.133728
	AVG =	6.79	

Instantaneous Data				
Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time

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Table G2.3. Continuous Data Used for BDA6

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily average	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
9/11/2002	0:00	6.63	0.929484					
9/11/2002	0:15	6.29	0.881818					
9/11/2002	0:30	6.59	0.923876					
9/11/2002	0:45	6.62	0.928082					
9/11/2002	1:00	6.58	0.922474					
9/11/2002	1:15	6.58	0.922474					
9/11/2002	1:30	6.63	0.929484					
9/11/2002	1:45	6.60	0.925278					
9/11/2002	2:00	6.53	0.915465					
9/11/2002	2:15	6.60	0.925278					
9/11/2002	2:30	6.55	0.918269					
9/11/2002	2:45	6.57	0.921072					
9/11/2002	3:00	6.16	0.863593					
9/11/2002	3:15	6.57	0.921072					
9/11/2002	3:30	6.57	0.921072					
9/11/2002	3:45	6.59	0.923876					
9/11/2002	4:00	6.61	0.92668					
9/11/2002	4:15	6.55	0.918269					
9/11/2002	4:30	6.62	0.928082					
9/11/2002	4:45	6.50	0.911259					
9/11/2002	5:00	6.57	0.921072					
9/11/2002	5:15	6.48	0.908455					
9/11/2002	5:30	6.47	0.907053					
9/11/2002	5:45	6.69	0.937896					
9/11/2002	6:00	6.46	0.905651					
9/11/2002	6:15	6.49	0.909857					
9/11/2002	6:30	6.50	0.911259					
9/11/2002	6:45	6.47	0.907053					
9/11/2002	7:00	6.42	0.900043					
9/11/2002	7:15	6.40	0.897239					
9/11/2002	7:30	6.43	0.901445					
9/11/2002	7:45	6.44	0.902847					
9/11/2002	8:00	6.46	0.905651					
9/11/2002	8:15	6.66	0.93369					
9/11/2002	8:30	6.32	0.886024					
9/11/2002	8:45	6.48	0.908455					
9/11/2002	9:00	6.59	0.923876					
9/11/2002	9:15	6.59	0.923876					
9/11/2002	9:30	6.53	0.915465					
9/11/2002	9:45	6.56	0.91967					
9/11/2002	10:00	6.46	0.905651					

Continuous Monitoring Data

DATE	TIME	DO (mg/L)	DO as fraction of daily average
9/11/2002	10:15	6.48	0.908455
9/11/2002	10:30	6.53	0.915465
9/11/2002	10:45	6.52	0.914063
9/11/2002	11:00	6.80	0.953317
9/11/2002	11:15	6.80	0.953317
9/11/2002	11:30	7.16	1.003787
9/11/2002	11:45	7.32	1.026218
9/11/2002	12:00	7.12	0.998179
9/11/2002	12:15	7.16	1.003787
9/11/2002	12:30	7.53	1.055658
9/11/2002	12:45	7.26	1.017806
9/11/2002	13:00	7.36	1.031825
9/11/2002	13:15	7.26	1.017806
9/11/2002	13:30	7.60	1.065472
9/11/2002	13:45	7.62	1.068276
9/11/2002	14:00	7.75	1.086501
9/11/2002	14:15	8.04	1.127157
9/11/2002	14:30	8.23	1.153794
9/11/2002	14:45	8.19	1.148186
9/11/2002	15:00	8.64	1.211273
9/11/2002	15:15	8.88	1.24492
9/11/2002	15:30	8.56	1.200058
9/11/2002	15:45	7.41	1.038835
9/11/2002	16:00	8.34	1.169215
9/11/2002	16:15	7.60	1.065472
9/11/2002	16:30	8.49	1.190244
9/11/2002	16:45	8.27	1.159402
9/11/2002	17:00	7.80	1.093511
9/11/2002	17:15	7.41	1.038835
9/11/2002	17:30	7.93	1.111736
9/11/2002	17:45	8.10	1.135569
9/11/2002	18:00	8.15	1.142578
9/11/2002	18:15	7.93	1.111736
9/11/2002	18:30	7.99	1.120147
9/11/2002	18:45	7.58	1.062668
9/11/2002	19:00	7.52	1.054256
9/11/2002	19:15	7.45	1.044443
9/11/2002	19:30	6.77	0.949111
9/11/2002	19:45	6.82	0.956121
9/11/2002	20:00	6.79	0.951915
9/11/2002	20:15	6.93	0.971542
9/11/2002	20:30	6.76	0.947709
9/11/2002	20:45	6.92	0.97014

Instantaneous Data

Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
UCA1	9/11/2002	11:25	7.53	7.501594
BDA7	9/11/2002	12:05	6.37	6.381621

Continuous Monitoring Data			
DATE	TIME	DO (mg/L)	DO as fraction of daily average
9/11/2002	21:00	7.01	0.982758
9/11/2002	21:15	7.45	1.044443
9/11/2002	21:30	7.50	1.051453
9/11/2002	21:45	8.01	1.122951
9/11/2002	22:00	7.79	1.092109
9/11/2002	22:15	7.86	1.101922
9/11/2002	22:30	7.87	1.103324
9/11/2002	22:45	8.04	1.127157
9/11/2002	23:00	8.16	1.14398
9/11/2002	23:15	8.05	1.128559
9/11/2002	23:30	7.93	1.111736
9/11/2002	23:45	7.71	1.080893
9/12/2002	0:00	7.34	1.029022
	AVG =	7.13	

Instantaneous Data				
Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time

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Table G2.4. Continuous Data Used for BDA9(2)

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily average	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
9/11/2002	0:00	7.18	1.168263					
9/11/2002	0:15	7.14	1.161755					
9/11/2002	0:30	7.11	1.156873					
9/11/2002	0:45	7.19	1.16989					
9/11/2002	1:00	7.07	1.150365					
9/11/2002	1:15	7.03	1.143856					
9/11/2002	1:30	6.99	1.137348					
9/11/2002	1:45	6.88	1.11945					
9/11/2002	2:00	6.92	1.125958					
9/11/2002	2:15	6.72	1.093416					
9/11/2002	2:30	6.57	1.069009					
9/11/2002	2:45	6.62	1.077145					
9/11/2002	3:00	6.44	1.047857					
9/11/2002	3:15	6.45	1.049484					
9/11/2002	3:30	6.29	1.02345					
9/11/2002	3:45	6.36	1.03484					
9/11/2002	4:00	6.53	1.062501					
9/11/2002	4:15	6.43	1.04623					
9/11/2002	4:30	6.29	1.02345					
9/11/2002	4:45	6.29	1.02345					
9/11/2002	5:00	6.61	1.075518					
9/11/2002	5:15	6.46	1.051111					
9/11/2002	5:30	6.49	1.055993					
9/11/2002	5:45	6.4	1.041349					
9/11/2002	6:00	6.62	1.077145					
9/11/2002	6:15	6.37	1.036467					
9/11/2002	6:30	6.42	1.044603					
9/11/2002	6:45	6.43	1.04623					
9/11/2002	7:00	6.45	1.049484					
9/11/2002	7:15	6.52	1.060874					
9/11/2002	7:30	6.51	1.059247					
9/11/2002	7:45	6.5	1.05762					
9/11/2002	8:00	6.4	1.041349					
9/11/2002	8:15	6.56	1.067382					
9/11/2002	8:30	6.55	1.065755	LS1	9/11/2002	8:35	7.13	6.690091
9/11/2002	8:45	6.54	1.064128					
9/11/2002	9:00	6.81	1.10806					
9/11/2002	9:15	6.56	1.067382					
9/11/2002	9:30	6.87	1.117823	CC1	9/11/2002	9:35	4.91	4.392468
9/11/2002	9:45	6.58	1.070637					
9/11/2002	10:00	6.63	1.078772					

Continuous Monitoring Data

DATE	TIME	DO (mg/L)	DO as fraction of daily average
9/11/2002	10:15	6.83	1.111314
9/11/2002	10:30	7.13	1.160127
9/11/2002	10:45	6.85	1.114568
9/11/2002	11:00	7.03	1.143856
9/11/2002	11:15	6.99	1.137348
9/11/2002	11:30	6.62	1.077145
9/11/2002	11:45	6.81	1.10806
9/11/2002	12:00	7.08	1.151992
9/11/2002	12:15	4.8	0.781011
9/11/2002	12:30	5.33	0.867248
9/11/2002	12:45	5.51	0.896536
9/11/2002	13:00	5.13	0.834706
9/11/2002	13:15	4.74	0.771249
9/11/2002	13:30	5.14	0.836333
9/11/2002	13:45	5.31	0.863994
9/11/2002	14:00	6.25	1.016942
9/11/2002	14:15	7.07	1.150365
9/11/2002	14:30	7.08	1.151992
9/11/2002	14:45	6.43	1.04623
9/11/2002	15:00	7.38	1.200805
9/11/2002	15:15	7.5	1.22033
9/11/2002	15:30	7.86	1.278906
9/11/2002	15:45	6.48	1.054366
9/11/2002	16:00	7.14	1.161755
9/11/2002	16:15	7.42	1.207314
9/11/2002	16:30	7.17	1.166636
9/11/2002	16:45	6.02	0.979519
9/11/2002	17:00	5.01	0.815181
9/11/2002	17:15	5.55	0.903045
9/11/2002	17:30	5.09	0.828198
9/11/2002	17:45	5.07	0.824943
9/11/2002	18:00	6.36	1.03484
9/11/2002	18:15	5.22	0.84935
9/11/2002	18:30	5.49	0.893282
9/11/2002	18:45	5.28	0.859113
9/11/2002	19:00	4.36	0.709419
9/11/2002	19:15	4.18	0.680131
9/11/2002	19:30	4.64	0.754978
9/11/2002	19:45	5.37	0.873757
9/11/2002	20:00	7.02	1.142229
9/11/2002	20:15	6.64	1.080399
9/11/2002	20:30	6.61	1.075518
9/11/2002	20:45	7.62	1.239856

Instantaneous Data

Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
BDA8	9/11/2002	10:35	6.25	5.387339
UCB1	9/11/2002	11:35	2.97	2.757289

Continuous Monitoring Data			
DATE	TIME	DO (mg/L)	DO as fraction of daily average
9/11/2002	21:00	5.23	0.850977
9/11/2002	21:15	4.74	0.771249
9/11/2002	21:30	5.04	0.820062
9/11/2002	21:45	5.31	0.863994
9/11/2002	22:00	4.56	0.741961
9/11/2002	22:15	4.62	0.751724
9/11/2002	22:30	4.37	0.711046
9/11/2002	22:45	4.19	0.681758
9/11/2002	23:00	4.56	0.741961
9/11/2002	23:15	4.5	0.732198
9/11/2002	23:30	4.16	0.676877
9/11/2002	23:45	4.34	0.706165
9/12/2002	0:00	4.14	0.673622
	AVG =	6.15	

Instantaneous Data				
Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time

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Table G2.5. Continuous Data Used for DP1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily average	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
9/11/2002	0:00	7.91	0.933237					
9/11/2002	0:15	7.81	0.921439					
9/11/2002	0:30	8.05	0.949754					
9/11/2002	0:45	7.93	0.935596					
9/11/2002	1:00	7.89	0.930877					
9/11/2002	1:15	7.93	0.935596					
9/11/2002	1:30	7.68	0.906101					
9/11/2002	1:45	7.69	0.907281					
9/11/2002	2:00	7.82	0.922618					
9/11/2002	2:15	7.54	0.889584					
9/11/2002	2:30	7.46	0.880145					
9/11/2002	2:45	7.51	0.886044					
9/11/2002	3:00	7.45	0.878965					
9/11/2002	3:15	7.56	0.891943					
9/11/2002	3:30	7.53	0.888404					
9/11/2002	3:45	7.63	0.900202					
9/11/2002	4:00	7.61	0.897842					
9/11/2002	4:15	7.37	0.869527					
9/11/2002	4:30	7.43	0.876606					
9/11/2002	4:45	7.36	0.868347					
9/11/2002	5:00	7.38	0.870706					
9/11/2002	5:15	7.38	0.870706					
9/11/2002	5:30	7.35	0.867167					
9/11/2002	5:45	7.36	0.868347					
9/11/2002	6:00	7.27	0.857728					
9/11/2002	6:15	7.31	0.862448					
9/11/2002	6:30	7.15	0.843571					
9/11/2002	6:45	7.03	0.829413					
9/11/2002	7:00	7.06	0.832952					
9/11/2002	7:15	7.00	0.825873					
9/11/2002	7:30	6.91	0.815255					
9/11/2002	7:45	6.98	0.823514					
9/11/2002	8:00	7.02	0.828233					
9/11/2002	8:15	6.88	0.811715					
9/11/2002	8:30	7.08	0.835312					
9/11/2002	8:45	6.99	0.824693					
9/11/2002	9:00	7.07	0.834132					
9/11/2002	9:15	7.11	0.838851					
9/11/2002	9:30	7.25	0.855369					
9/11/2002	9:45	7.32	0.863628					
9/11/2002	10:00	7.51	0.886044					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily average	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
9/11/2002	10:15	7.48	0.882505					
9/11/2002	10:30	7.37	0.869527					
9/11/2002	10:45	7.79	0.919079					
9/11/2002	11:00	8.23	0.970991					
9/11/2002	11:15	8.18	0.965092					
9/11/2002	11:30	8.18	0.965092					
9/11/2002	11:45	8.47	0.999307					
9/11/2002	12:00	8.89	1.048859					
9/11/2002	12:15	8.87	1.046499					
9/11/2002	12:30	9.22	1.087793					
9/11/2002	12:45	9.66	1.139705					
9/11/2002	13:00	9.50	1.120828					
9/11/2002	13:15	9.65	1.138525					
9/11/2002	13:30	9.94	1.17274					
9/11/2002	13:45	10.07	1.188078					
9/11/2002	14:00	9.56	1.127907					
9/11/2002	14:15	9.10	1.073635					
9/11/2002	14:30	9.59	1.131446					
9/11/2002	14:45	9.66	1.139705					
9/11/2002	15:00	9.24	1.090153					
9/11/2002	15:15	9.84	1.160942					
9/11/2002	15:30	9.49	1.119648					
9/11/2002	15:45	9.26	1.092512					
9/11/2002	16:00	9.23	1.088973					
9/11/2002	16:15	9.16	1.080714					
9/11/2002	16:30	9.67	1.140885					
9/11/2002	16:45	9.22	1.087793					
9/11/2002	17:00	8.80	1.038241					
9/11/2002	17:15	8.91	1.051219					
9/11/2002	17:30	8.97	1.058298					
9/11/2002	17:45	9.19	1.084254					
9/11/2002	18:00	9.11	1.074815					
9/11/2002	18:15	9.01	1.063017					
9/11/2002	18:30	9.76	1.151503					
9/11/2002	18:45	9.17	1.081894					
9/11/2002	19:00	9.33	1.100771					
9/11/2002	19:15	8.88	1.047679					
9/11/2002	19:30	8.52	1.005206					
9/11/2002	19:45	8.60	1.014644					
9/11/2002	20:00	9.04	1.066556					
9/11/2002	20:15	9.58	1.130267					
9/11/2002	20:30	9.76	1.151503					
9/11/2002	20:45	9.22	1.087793					

Continuous Monitoring Data			
DATE	TIME	DO (mg/L)	DO as fraction of daily average
9/11/2002	21:00	9.97	1.17628
9/11/2002	21:15	9.77	1.152683
9/11/2002	21:30	9.89	1.166841
9/11/2002	21:45	9.70	1.144424
9/11/2002	22:00	9.81	1.157402
9/11/2002	22:15	9.90	1.168021
9/11/2002	22:30	9.87	1.164481
9/11/2002	22:45	9.89	1.166841
9/11/2002	23:00	9.93	1.17156
9/11/2002	23:15	9.88	1.165661
9/11/2002	23:30	9.84	1.160942
9/11/2002	23:45	9.93	1.17156
9/12/2002	0:00	9.84	1.160942
	AVG =	8.48	

Instantaneous Data				
Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time

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Table G2.6. Continuous Data Used for UCA1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily average	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
9/11/2002	0:00	6.38	0.962772					
9/11/2002	0:15	6.89	1.039733					
9/11/2002	0:30	6.60	0.995971					
9/11/2002	0:45	6.86	1.035206					
9/11/2002	1:00	7.03	1.06086					
9/11/2002	1:15	6.69	1.009552					
9/11/2002	1:30	6.66	1.005025					
9/11/2002	1:45	5.77	0.87072					
9/11/2002	2:00	6.04	0.911464					
9/11/2002	2:15	6.14	0.926555					
9/11/2002	2:30	6.01	0.906937					
9/11/2002	2:45	6.70	1.011061					
9/11/2002	3:00	6.83	1.030679					
9/11/2002	3:15	6.61	0.99748					
9/11/2002	3:30	6.58	0.992953					
9/11/2002	3:45	6.06	0.914482					
9/11/2002	4:00	6.26	0.944663					
9/11/2002	4:15	6.03	0.909955					
9/11/2002	4:30	6.34	0.956735					
9/11/2002	4:45	6.17	0.931082					
9/11/2002	5:00	6.43	0.970317					
9/11/2002	5:15	5.96	0.899392					
9/11/2002	5:30	6.05	0.912973					
9/11/2002	5:45	6.05	0.912973					
9/11/2002	6:00	6.05	0.912973					
9/11/2002	6:15	5.95	0.897883					
9/11/2002	6:30	5.77	0.87072					
9/11/2002	6:45	6.14	0.926555					
9/11/2002	7:00	5.66	0.85412					
9/11/2002	7:15	5.67	0.855629					
9/11/2002	7:30	5.85	0.882792					
9/11/2002	7:45	5.74	0.866193					
9/11/2002	8:00	5.65	0.852611					
9/11/2002	8:15	5.72	0.863175					
9/11/2002	8:30	5.89	0.888828					
9/11/2002	8:45	5.89	0.888828					
9/11/2002	9:00	5.73	0.864684					
9/11/2002	9:15	6.06	0.914482					
9/11/2002	9:30	6.38	0.962772					
9/11/2002	9:45	6.38	0.962772					
9/11/2002	10:00	6.70	1.011061					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily average	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
9/11/2002	10:15	7.19	1.085004					
9/11/2002	10:30	6.37	0.961263					
9/11/2002	10:45	7.15	1.078968					
9/11/2002	11:00	6.74	1.017097					
9/11/2002	11:15	6.86	1.035206					
9/11/2002	11:30	7.02	1.059351					
9/11/2002	11:45	8.60	1.29778					
9/11/2002	12:00	6.23	0.940136					
9/11/2002	12:15	6.34	0.956735					
9/11/2002	12:30	6.48	0.977862					
9/11/2002	12:45	6.52	0.983898					
9/11/2002	13:00	6.51	0.982389					
9/11/2002	13:15	5.81	0.876756					
9/11/2002	13:30	6.05	0.912973					
9/11/2002	13:45	6.20	0.935609					
9/11/2002	14:00	6.52	0.983898					
9/11/2002	14:15	7.30	1.101604					
9/11/2002	14:30	6.93	1.045769					
9/11/2002	14:45	6.33	0.955226					
9/11/2002	15:00	6.21	0.937118					
9/11/2002	15:15	8.33	1.257036					
9/11/2002	15:30	9.12	1.37625					
9/11/2002	15:45	7.23	1.091041					
9/11/2002	16:00	8.45	1.275144					
9/11/2002	16:15	7.85	1.184602					
9/11/2002	16:30	7.55	1.13933					
9/11/2002	16:45	7.30	1.101604					
9/11/2002	17:00	8.16	1.231382					
9/11/2002	17:15	8.35	1.260054					
9/11/2002	17:30	7.98	1.204219					
9/11/2002	17:45	8.13	1.226855					
9/11/2002	18:00	7.98	1.204219					
9/11/2002	18:15	8.26	1.246472					
9/11/2002	18:30	10.03	1.513574					
9/11/2002	18:45	8.78	1.324943					
9/11/2002	19:00	7.91	1.193656					
9/11/2002	19:15	7.56	1.140839					
9/11/2002	19:30	7.11	1.072932					
9/11/2002	19:45	6.45	0.973335					
9/11/2002	20:00	5.92	0.893356					
9/11/2002	20:15	5.75	0.867702					
9/11/2002	20:30	5.57	0.840539					
9/11/2002	20:45	6.20	0.935609					

Continuous Monitoring Data			
DATE	TIME	DO (mg/L)	DO as fraction of daily average
9/11/2002	21:00	4.86	0.733397
9/11/2002	21:15	2.88	0.434605
9/11/2002	21:30	6.60	0.995971
9/11/2002	21:45	5.69	0.858647
9/11/2002	22:00	5.41	0.816394
9/11/2002	22:15	4.42	0.666999
9/11/2002	22:30	6.24	0.941645
9/11/2002	22:45	8.05	1.214782
9/11/2002	23:00	7.57	1.142348
9/11/2002	23:15	7.38	1.113676
9/11/2002	23:30	6.93	1.045769
9/11/2002	23:45	6.65	1.003516
9/12/2002	0:00	6.41	0.967299
	AVG =	6.63	

Instantaneous Data				
Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time

FILE: R:\PROJECTS\3110-051\DES ALLEMANDS PDF\DO AVG CALCULATIONS-LOWER BDA.XLS

Table G2.7. Continuous Data Used for UCB1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily average	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
9/11/2002	0:00	2.59	0.754762					
9/11/2002	0:15	2.66	0.775161					
9/11/2002	0:30	2.24	0.652767					
9/11/2002	0:45	2.46	0.716878					
9/11/2002	1:00	2.49	0.72562					
9/11/2002	1:15	2.55	0.743105					
9/11/2002	1:30	2.26	0.658595					
9/11/2002	1:45	2.3	0.670252					
9/11/2002	2:00	2.43	0.708136					
9/11/2002	2:15	2.42	0.705221					
9/11/2002	2:30	2.34	0.681908					
9/11/2002	2:45	2.35	0.684822					
9/11/2002	3:00	2.18	0.635282					
9/11/2002	3:15	2.14	0.623626					
9/11/2002	3:30	2.27	0.661509					
9/11/2002	3:45	2.12	0.617797					
9/11/2002	4:00	2.19	0.638196					
9/11/2002	4:15	2.18	0.635282					
9/11/2002	4:30	2.25	0.655681					
9/11/2002	4:45	2.29	0.667338					
9/11/2002	5:00	2.32	0.67608					
9/11/2002	5:15	2.34	0.681908					
9/11/2002	5:30	2.35	0.684822					
9/11/2002	5:45	2.36	0.687737					
9/11/2002	6:00	2.34	0.681908					
9/11/2002	6:15	2.46	0.716878					
9/11/2002	6:30	3.22	0.938352					
9/11/2002	6:45	3.96	1.153999					
9/11/2002	7:00	3.63	1.057832					
9/11/2002	7:15	3.81	1.110287					
9/11/2002	7:30	4.34	1.264736					
9/11/2002	7:45	4.79	1.395872					
9/11/2002	8:00	4.78	1.392958					
9/11/2002	8:15	4.82	1.404615					
9/11/2002	8:30	4.95	1.442498					
9/11/2002	8:45	4.98	1.451241					
9/11/2002	9:00	5.08	1.480382					
9/11/2002	9:15	4.85	1.413357					
9/11/2002	9:30	4.65	1.355074					
9/11/2002	9:45	4.48	1.305534					
9/11/2002	10:00	4.97	1.448327					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily average	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time
9/11/2002	10:15	5.09	1.483296					
9/11/2002	10:30	4.22	1.229766					
9/11/2002	10:45	5.04	1.468726					
9/11/2002	11:00	4.33	1.261822					
9/11/2002	11:15	4.9	1.427928					
9/11/2002	11:30	4.12	1.200625					
9/11/2002	11:45	3.73	1.086974					
9/11/2002	12:00	3.67	1.069489					
9/11/2002	12:15	3.42	0.996635					
9/11/2002	12:30	3.3	0.961666					
9/11/2002	12:45	3.62	1.054918					
9/11/2002	13:00	3.93	1.145256					
9/11/2002	13:15	3.98	1.159827					
9/11/2002	13:30	4.03	1.174398					
9/11/2002	13:45	4.46	1.299706					
9/11/2002	14:00	4.5	1.311362					
9/11/2002	14:15	4.47	1.30262					
9/11/2002	14:30	4.6	1.340504					
9/11/2002	14:45	4.79	1.395872					
9/11/2002	15:00	5.06	1.474554					
9/11/2002	15:15	5.04	1.468726					
9/11/2002	15:30	4.98	1.451241					
9/11/2002	15:45	4.97	1.448327					
9/11/2002	16:00	5.08	1.480382					
9/11/2002	16:15	5.07	1.477468					
9/11/2002	16:30	5.1	1.48621					
9/11/2002	16:45	4.99	1.454155					
9/11/2002	17:00	5.14	1.497867					
9/11/2002	17:15	5.15	1.500781					
9/11/2002	17:30	4.9	1.427928					
9/11/2002	17:45	4.85	1.413357					
9/11/2002	18:00	4.87	1.419185					
9/11/2002	18:15	4.7	1.369645					
9/11/2002	18:30	4.55	1.325933					
9/11/2002	18:45	4.41	1.285135					
9/11/2002	19:00	4.1	1.194797					
9/11/2002	19:15	3.82	1.113201					
9/11/2002	19:30	3.52	1.025777					
9/11/2002	19:45	3.36	0.97915					
9/11/2002	20:00	3.03	0.882984					
9/11/2002	20:15	2.89	0.842186					
9/11/2002	20:30	2.6	0.757676					
9/11/2002	20:45	2.41	0.702307					

Continuous Monitoring Data			
DATE	TIME	DO (mg/L)	DO as fraction of daily average
9/11/2002	21:00	2.34	0.681908
9/11/2002	21:15	2.16	0.629454
9/11/2002	21:30	1.96	0.571171
9/11/2002	21:45	1.7	0.495403
9/11/2002	22:00	1.57	0.45752
9/11/2002	22:15	1.64	0.477919
9/11/2002	22:30	1.46	0.425464
9/11/2002	22:45	1.42	0.413808
9/11/2002	23:00	1.28	0.37301
9/11/2002	23:15	1.22	0.355525
9/11/2002	23:30	1.13	0.329298
9/11/2002	23:45	1.11	0.323469
9/12/2002	0:00	0.89	0.259358
	AVG =	3.43	

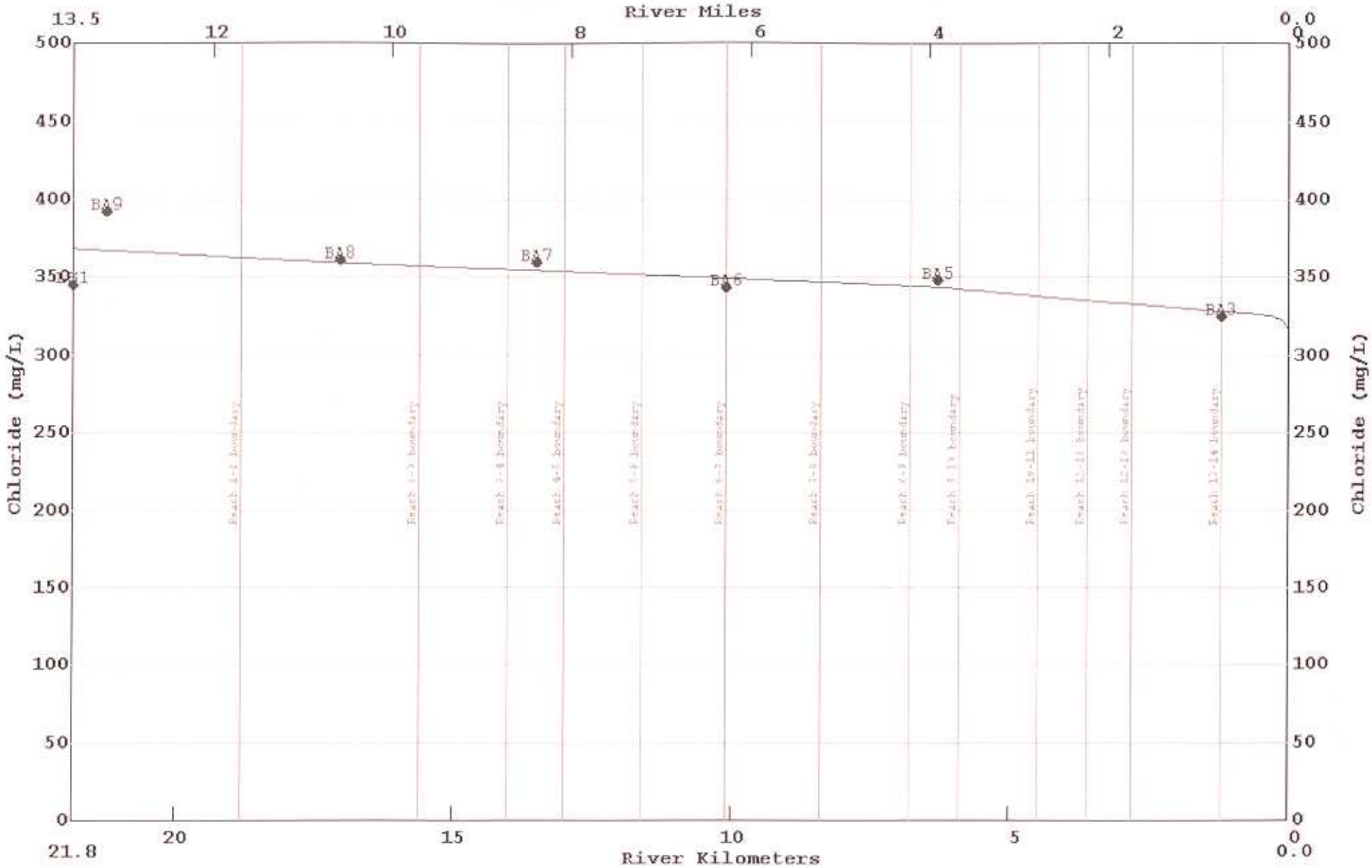
Instantaneous Data				
Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily Average DO (mg/L)at sampling time

FILE: R:\PROJECTS\3110-051\DES ALLEMANDS PDF\DO AVG CALCULATIONS-LOWER BDA.XLS

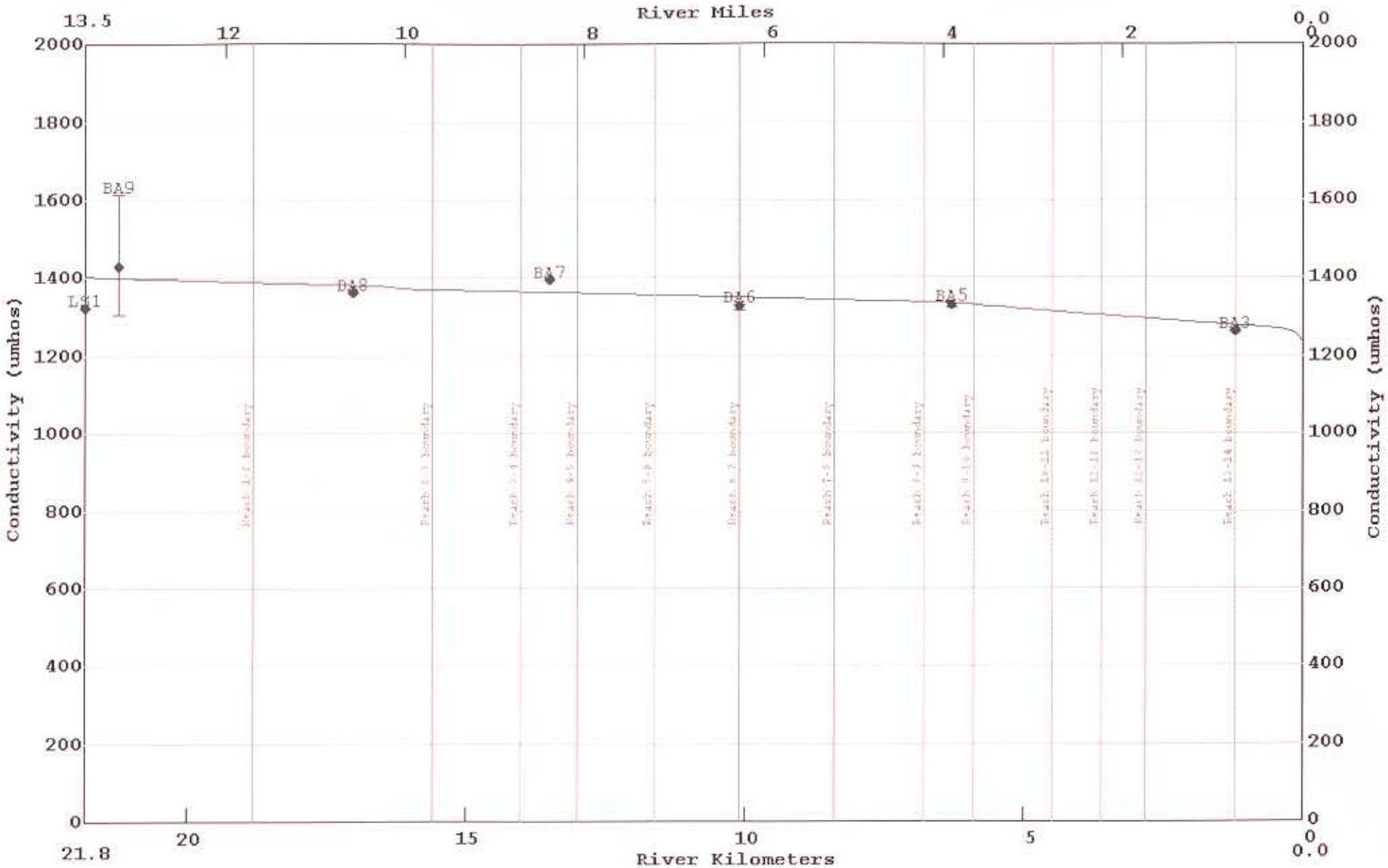
APPENDIX H

Predicted and Observed Chloride and Conductivity

LA-QUAL Version 6.02 Run at 12:49 on 01/23/2004 File R:\projects\3110-051\la-qual\des_all\calib\bda_cal8.txt
DO calibration min= 316.94 max= 369.00
BAYOU DES ALLEMANDS REACHES 1-14



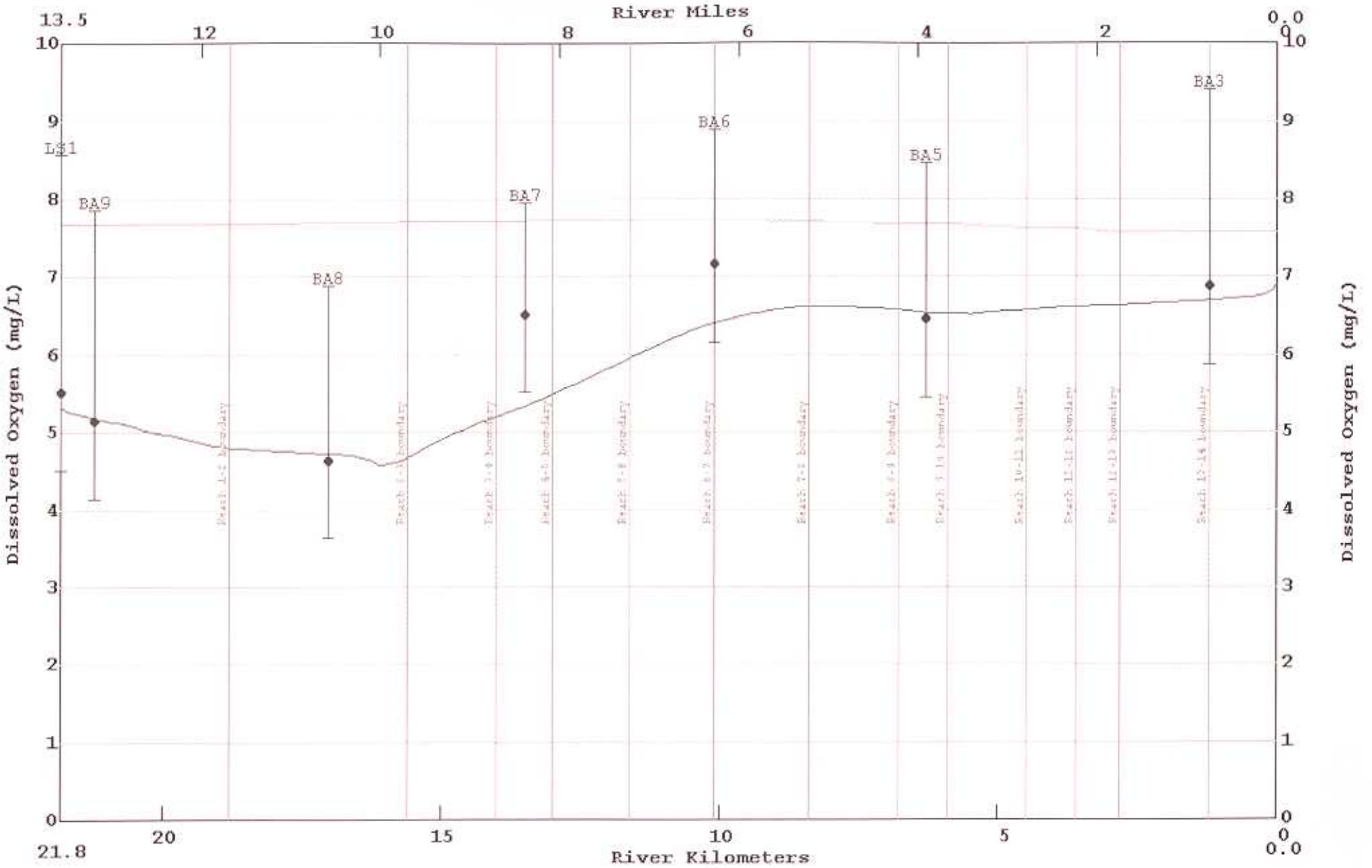
LA-QUAL Version 6.02 Run at 12:49 on 01/23/2004 File R:\projects\3110-051\la-qual\des_all\calib\bda_cal8.txt
DO calibration min= 1234.21 max= 1405.00
BAYOU DES ALLEMANDS REACHES 1-14



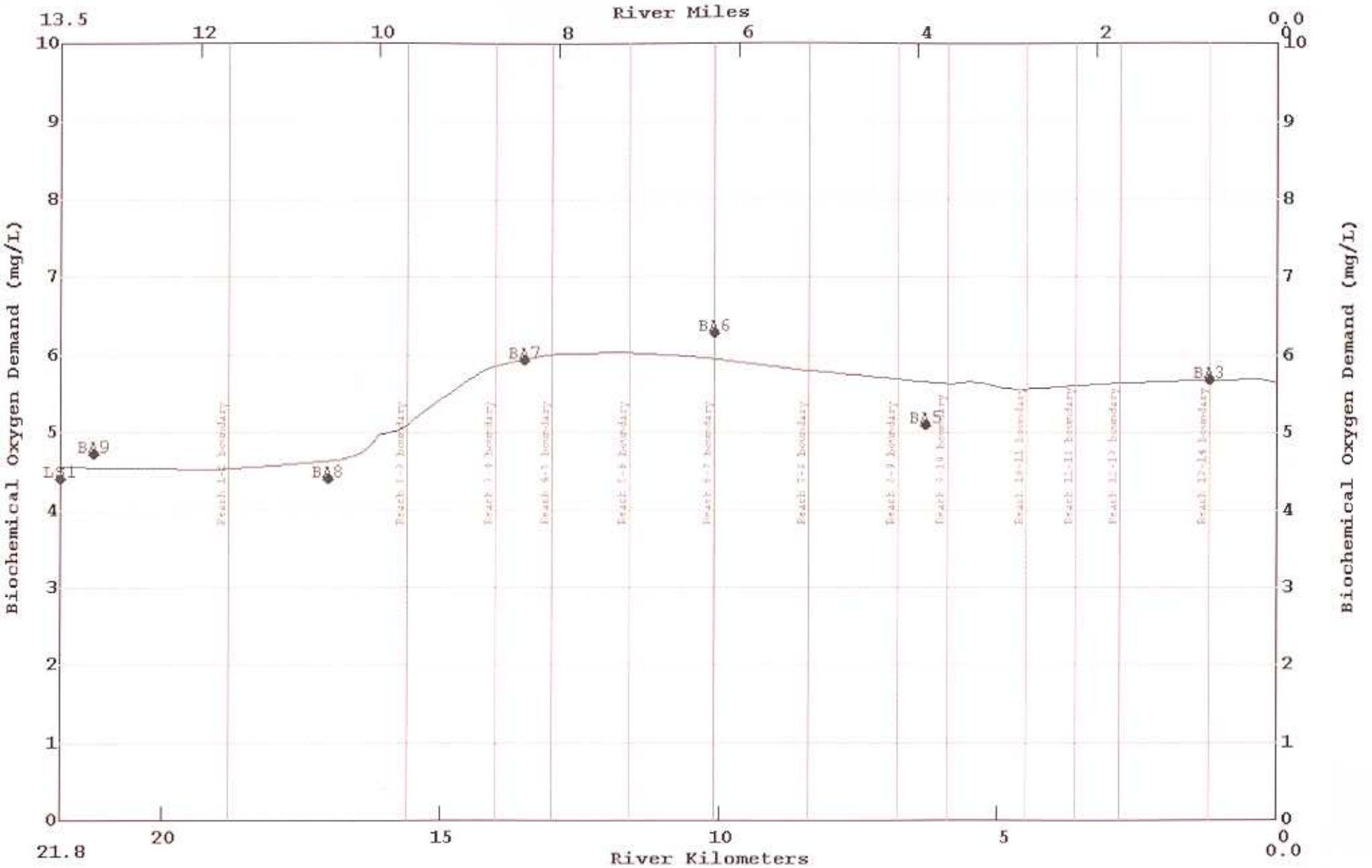
APPENDIX I

Predicted and Observed Water Quality

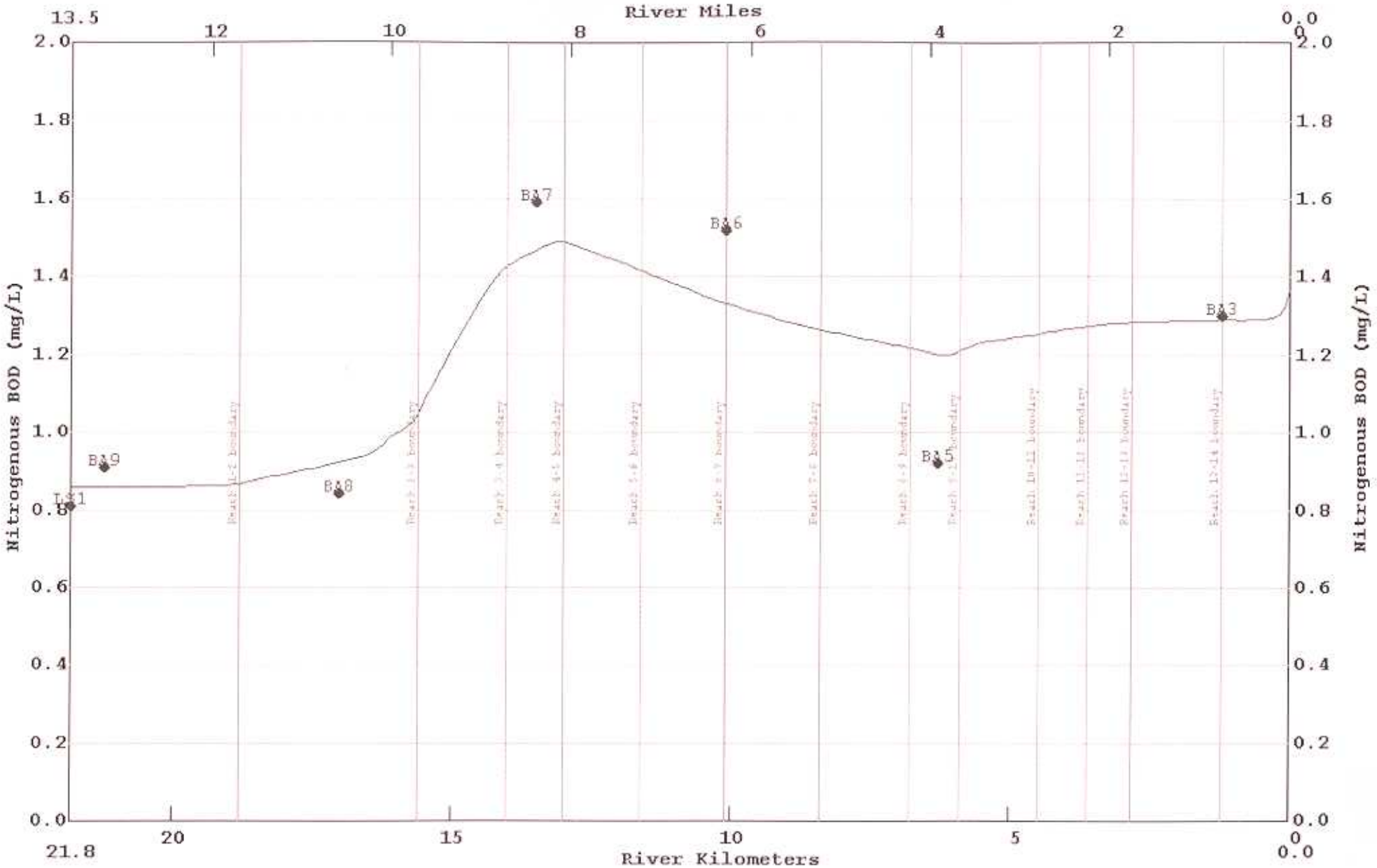
LA-QUAL Version 6.02 Run at 12:49 on 01/23/2004 File R:\projects\3110-051\la-qual\des_all\calib\bda_cal8.txt
DO calibration min= 4.58 max= 6.90
BAYOU DES ALLEMANDS REACHES 1-14



LA-QUAL Version 6.02 Run at 12:49 on 01/23/2004 File R:\projects\3110-051\la-qual\des_all\calib\bda_cal8.txt
DO calibration min= 4.53 max= 6.03
BAYOU DES ALLEMANDS REACHES 1-14



LA-QUAL Version 6.02 Run at 12:49 on 01/23/2004 File R:\projects\3110-051\la-qual\des_all\calib\bda_cal8.txt
DO calibration min= 0.86 max= 1.49
BAYOU DES ALLEMANDS REACHES 1-14



APPENDIX J

Calibration Output File

```
LA-QUAL Version 6.02
Louisiana Department of Environmental Quality

Input file is R:\projects\3110-051\la-qual\des_all\calib\bda_cal8.txt
Output produced at 12:49 on 01/23/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Des Allemands (020301)
TITLE02         DO calibration
CNTROL03   NO   SEQU                        <Warning: legacy control - line ignored>
CNTROL04  YES   METR
CNTROL05  YES   OXYG                        <Warning: legacy control - line ignored>
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMP
MODOPT02   NO   SALI
MODOPT03  YES   CONSERVATIVE MATERIAL  I = Chloride                  IN mg/L      CL
MODOPT04  YES   CONSERVATIVE MATERIAL II = Conductivity              IN umhos     COND
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BIOCHEMICAL OXYGEN DEMAND
MODOPT07   NO   NITR
MODOPT08   NO   PHOS
MODOPT09   NO   CHLO
MODOPT10   NO   MACR
MODOPT11   NO   COLI
MODOPT12  YES   NONCONSERVATIVE MATERIAL = Nitrogenous BOD            IN mg/L      NBOD
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

PROGRAM         HYDRAULIC CALCULATION METHOD       =         2.00000 (widths and depths)
PROGRAM         NCM OXYGEN UPTAKE RATE             =         1.00000 mg O/mg NCM
PROGRAM         KL MINIMUM                         =         0.81000 meters/day
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05
```

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

CARD TYPE DESCRIPTION OF CONSTANT VALUE

ENDATA06

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

CARD TYPE DESCRIPTION OF CONSTANT VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$

CARD TYPE	REACH	ID	NAME	BEGIN REACH km		END REACH km	ELEM LENGTH km	REACH LENGTH km	ELEMS PER RCH	BEGIN ELEM NUM	END ELEM NUM
REACH ID	1	DA	Bayou Des Allemands	21.80	TO	18.80	0.1000	3.00	30	1	30
REACH ID	2	DA	Bayou Des Allemands	18.80	TO	15.60	0.1000	3.20	32	31	62
REACH ID	3	DA	Bayou Des Allemands	15.60	TO	14.00	0.1000	1.60	16	63	78
REACH ID	4	DA	Bayou Des Allemands	14.00	TO	13.00	0.1000	1.00	10	79	88
REACH ID	5	DA	Bayou Des Allemands	13.00	TO	11.60	0.1000	1.40	14	89	102
REACH ID	6	DA	Bayou Des Allemands	11.60	TO	10.10	0.1000	1.50	15	103	117
REACH ID	7	DA	Bayou Des Allemands	10.10	TO	8.40	0.1000	1.70	17	118	134
REACH ID	8	DA	Bayou Des Allemands	8.40	TO	6.80	0.1000	1.60	16	135	150
REACH ID	9	DA	Bayou Des Allemands	6.80	TO	5.90	0.1000	0.90	9	151	159
REACH ID	10	DA	Bayou Des Allemands	5.90	TO	4.50	0.1000	1.40	14	160	173
REACH ID	11	DA	Bayou Des Allemands	4.50	TO	3.60	0.1000	0.90	9	174	182
REACH ID	12	DA	Bayou Des Allemands	3.60	TO	2.80	0.1000	0.80	8	183	190
REACH ID	13	DA	Bayou Des Allemands	2.80	TO	1.20	0.1000	1.60	16	191	206
REACH ID	14	DA	Bayou Des Allemands	1.20	TO	0.00	0.1000	1.20	12	207	218

ENDATA08

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

CARD TYPE	REACH	ID	WIDTH "A"	WIDTH "B"	WIDTH "C"	DEPTH "D"	DEPTH "E"	DEPTH "F"	SLOPE	MANNINGS "N"
HYDR-1	1	DA	0.000	0.000	404.000	0.000	0.000	2.350	0.00000	0.000
HYDR-1	2	DA	0.000	0.000	342.000	0.000	0.000	2.350	0.00000	0.000
HYDR-1	3	DA	0.000	0.000	440.000	0.000	0.000	2.410	0.00000	0.000
HYDR-1	4	DA	0.000	0.000	267.000	0.000	0.000	2.470	0.00000	0.000
HYDR-1	5	DA	0.000	0.000	334.000	0.000	0.000	2.490	0.00000	0.000
HYDR-1	6	DA	0.000	0.000	398.000	0.000	0.000	2.500	0.00000	0.000
HYDR-1	7	DA	0.000	0.000	231.000	0.000	0.000	2.500	0.00000	0.000
HYDR-1	8	DA	0.000	0.000	180.000	0.000	0.000	2.340	0.00000	0.000
HYDR-1	9	DA	0.000	0.000	264.000	0.000	0.000	2.170	0.00000	0.000
HYDR-1	10	DA	0.000	0.000	1058.000	0.000	0.000	1.970	0.00000	0.000
HYDR-1	11	DA	0.000	0.000	1224.000	0.000	0.000	1.760	0.00000	0.000
HYDR-1	12	DA	0.000	0.000	1010.000	0.000	0.000	1.810	0.00000	0.000
HYDR-1	13	DA	0.000	0.000	500.000	0.000	0.000	1.850	0.00000	0.000
HYDR-1	14	DA	0.000	0.000	213.000	0.000	0.000	1.850	0.00000	0.000

ENDATA09

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

CARD TYPE	REACH	ID	TIDAL RANGE	DISPERSION "A"	DISPERSION "B"	DISPERSION "C"	DISPERSION "D"
HYDR	1	DA	0.00	10.000	0.000	0.000	0.000
HYDR	2	DA	0.00	10.000	0.000	0.000	0.000
HYDR	3	DA	0.00	10.000	0.000	0.000	0.000
HYDR	4	DA	0.00	10.000	0.000	0.000	0.000
HYDR	5	DA	0.00	10.000	0.000	0.000	0.000
HYDR	6	DA	0.00	10.000	0.000	0.000	0.000
HYDR	7	DA	0.00	10.000	0.000	0.000	0.000
HYDR	8	DA	0.00	10.000	0.000	0.000	0.000
HYDR	9	DA	0.00	10.000	0.000	0.000	0.000
HYDR	10	DA	0.00	10.000	0.000	0.000	0.000
HYDR	11	DA	0.00	10.000	0.000	0.000	0.000
HYDR	12	DA	0.00	10.000	0.000	0.000	0.000
HYDR	13	DA	0.00	10.000	0.000	0.000	0.000
HYDR	14	DA	0.00	10.000	0.000	0.000	0.000

ENDATA10

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

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	DA	28.89	0.66	6.17	0.00	0.00	0.00	8.70	0.00
INITIAL	2	DA	28.89	0.66	6.17	0.00	0.00	0.00	4.60	0.00
INITIAL	3	DA	28.65	0.67	6.65	0.00	0.00	0.00	4.60	0.00
INITIAL	4	DA	28.65	0.67	6.65	0.00	0.00	0.00	4.60	0.00
INITIAL	5	DA	28.41	0.68	7.13	0.00	0.00	0.00	10.50	0.00
INITIAL	6	DA	28.41	0.68	7.13	0.00	0.00	0.00	16.40	0.00
INITIAL	7	DA	28.41	0.68	7.13	0.00	0.00	0.00	16.40	0.00
INITIAL	8	DA	28.62	0.69	6.96	0.00	0.00	0.00	10.45	0.00
INITIAL	9	DA	28.84	0.70	6.78	0.00	0.00	0.00	4.50	0.00
INITIAL	10	DA	28.84	0.70	6.78	0.00	0.00	0.00	4.50	0.00
INITIAL	11	DA	29.28	0.67	6.76	0.00	0.00	0.00	3.75	0.00
INITIAL	12	DA	29.28	0.67	6.76	0.00	0.00	0.00	3.75	0.00
INITIAL	13	DA	29.71	0.65	6.74	0.00	0.00	0.00	3.00	0.00
INITIAL	14	DA	29.71	0.65	6.74	0.00	0.00	0.00	3.00	0.00

ENDATA11

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

CARD TYPE	RCH NUM	RCH ID	K2 OPT	K2 "A"	K2 "B"	K2 "C"	BKGRND SOD g/m²/d	BOD DECAY per day	BOD SETT m/d	BOD CONV TO SOD	ANAER BOD DECAY per day	BOD2 DECAY per day	BOD2 SETT m/d	BOD2 CONV TO SOD	ANAER BOD2 DECAY per day
COEF-1	1	DA	15 LOUISIANA	0.000	0.000	0.000	3.250	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	DA	15 LOUISIANA	0.000	0.000	0.000	3.000	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	DA	15 LOUISIANA	0.000	0.000	0.000	0.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	DA	15 LOUISIANA	0.000	0.000	0.000	1.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	DA	15 LOUISIANA	0.000	0.000	0.000	1.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	11	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ENDATA12

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

CARD TYPE	REACH	ID	ORG-N DECA	ORG-N SETT	ORGN CONV TO NH3 SRCE	NH3 DECA	NH3 SRCE	PHOS SRCE	DENIT RATE

ENDATA13

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

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

ENDATA14

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

CARD TYPE	REACH	ID	COLIFORM DIE-OFF	NCM DECAY	NCM SETT	NCM CONV TO SOD
COEF-4	1	DA	0.000	0.090	0.000	0.000
COEF-4	2	DA	0.000	0.090	0.000	0.000
COEF-4	3	DA	0.000	0.090	0.000	0.000
COEF-4	4	DA	0.000	0.090	0.000	0.000
COEF-4	5	DA	0.000	0.090	0.000	0.000
COEF-4	6	DA	0.000	0.090	0.000	0.000
COEF-4	7	DA	0.000	0.090	0.000	0.000
COEF-4	8	DA	0.000	0.090	0.000	0.000
COEF-4	9	DA	0.000	0.090	0.000	0.000
COEF-4	10	DA	0.000	0.090	0.000	0.000
COEF-4	11	DA	0.000	0.090	0.000	0.000
COEF-4	12	DA	0.000	0.090	0.000	0.000
COEF-4	13	DA	0.000	0.090	0.000	0.000
COEF-4	14	DA	0.000	0.090	0.000	0.000

ENDATA15

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

CARD TYPE	REACH	ID	OUTFLOW	INFLOW	TEMP	SALIN	CM-I	CM-II	IN/DIST	OUT/DIST
INCR-1	1	DA	0.00000	2.46100	0.00	0.00	270.00	1160.00	0.82033	0.00000
INCR-1	2	DA	0.00000	2.62510	0.00	0.00	270.00	1160.00	0.82034	0.00000
INCR-1	3	DA	0.00000	1.31250	0.00	0.00	270.00	1160.00	0.82031	0.00000
INCR-1	4	DA	0.00000	0.82030	0.00	0.00	270.00	1160.00	0.82030	0.00000
INCR-1	5	DA	0.00000	1.14850	0.00	0.00	270.00	1160.00	0.82036	0.00000
INCR-1	6	DA	0.00000	1.23050	0.00	0.00	270.00	1160.00	0.82033	0.00000
INCR-1	7	DA	0.00000	1.39460	0.00	0.00	270.00	1160.00	0.82035	0.00000
INCR-1	8	DA	0.00000	1.31250	0.00	0.00	270.00	1160.00	0.82031	0.00000
INCR-1	9	DA	0.00000	0.73830	0.00	0.00	270.00	1160.00	0.82033	0.00000
INCR-1	10	DA	0.00000	1.14850	0.00	0.00	120.00	500.00	0.82036	0.00000
INCR-1	11	DA	0.00000	0.73830	0.00	0.00	120.00	500.00	0.82033	0.00000
INCR-1	12	DA	0.00000	0.65630	0.00	0.00	120.00	500.00	0.82038	0.00000
INCR-1	13	DA	0.00000	1.31250	0.00	0.00	120.00	500.00	0.82031	0.00000
INCR-1	14	DA	0.00000	0.98440	0.00	0.00	120.00	500.00	0.82033	0.00000

ENDATA16

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

CARD TYPE	REACH	ID	DO	BOD	ORG-N	NH3-N	NO3-N	BOD#2
INCR-2	1	DA	6.00	5.00	0.00	0.00	0.00	0.00
INCR-2	2	DA	6.00	5.00	0.00	0.00	0.00	0.00
INCR-2	3	DA	6.00	5.00	0.00	0.00	0.00	0.00
INCR-2	4	DA	6.00	5.00	0.00	0.00	0.00	0.00
INCR-2	5	DA	6.00	5.00	0.00	0.00	0.00	0.00
INCR-2	6	DA	6.00	5.00	0.00	0.00	0.00	0.00
INCR-2	7	DA	6.00	5.00	0.00	0.00	0.00	0.00
INCR-2	8	DA	6.00	5.00	0.00	0.00	0.00	0.00
INCR-2	9	DA	6.00	5.00	0.00	0.00	0.00	0.00
INCR-2	10	DA	6.00	5.00	0.00	0.00	0.00	0.00
INCR-2	11	DA	6.00	5.00	0.00	0.00	0.00	0.00
INCR-2	12	DA	6.00	5.00	0.00	0.00	0.00	0.00
INCR-2	13	DA	6.00	5.00	0.00	0.00	0.00	0.00
INCR-2	14	DA	6.00	5.00	0.00	0.00	0.00	0.00

ENDATA17

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

CARD TYPE	REACH	ID	PHOS	CHL A	COLI	NCM
INCR-3	1	DA	0.00	0.00	0.00	1.00
INCR-3	2	DA	0.00	0.00	0.00	1.00
INCR-3	3	DA	0.00	0.00	0.00	1.00
INCR-3	4	DA	0.00	0.00	0.00	1.00
INCR-3	5	DA	0.00	0.00	0.00	1.00
INCR-3	6	DA	0.00	0.00	0.00	1.00
INCR-3	7	DA	0.00	0.00	0.00	1.00
INCR-3	8	DA	0.00	0.00	0.00	1.00
INCR-3	9	DA	0.00	0.00	0.00	1.00
INCR-3	10	DA	0.00	0.00	0.00	1.00
INCR-3	11	DA	0.00	0.00	0.00	1.00
INCR-3	12	DA	0.00	0.00	0.00	1.00
INCR-3	13	DA	0.00	0.00	0.00	1.00
INCR-3	14	DA	0.00	0.00	0.00	1.00

ENDATA18

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

CARD TYPE      REACH  ID       BOD#1     ORG-N      COLI       NCM        DO     BOD#2

NONPOINT           1   DA      750.00      0.00      0.00    375.00      0.00      0.00
NONPOINT           2   DA     1400.00      0.00      0.00    700.00      0.00      0.00
NONPOINT           3   DA     4220.00      0.00      0.00   2110.00      0.00      0.00
NONPOINT           4   DA     1080.00      0.00      0.00    540.00      0.00      0.00
NONPOINT           5   DA      750.00      0.00      0.00      5.00      0.00      0.00
NONPOINT           6   DA      500.00      0.00      0.00      6.00      0.00      0.00
NONPOINT           7   DA        4.00      0.00      0.00      4.00      0.00      0.00
NONPOINT           8   DA        3.00      0.00      0.00      3.00      0.00      0.00
NONPOINT           9   DA        2.00      0.00      0.00      2.00      0.00      0.00
NONPOINT          10   DA       15.00      0.00      0.00    741.00      0.00      0.00
NONPOINT          11   DA     1102.00      0.00      0.00    551.00      0.00      0.00
NONPOINT          12   DA      889.00      0.00      0.00    404.00      0.00      0.00
NONPOINT          13   DA      960.00      0.00      0.00    400.00      0.00      0.00
NONPOINT          14   DA      332.00      0.00      0.00    128.00      0.00      0.00
ENDATA19

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

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

HDWTR-1           1                              0  42.00000 1483.051    0.00     0.00   369.000  1405.000
ENDATA20

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

CARD TYPE     ELEMENT   NAME                          DO     BOD#1     ORG-N     NH3-N     NO3-N     BOD#2
                                                     mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-1           1                                 5.32      4.56      0.00      0.00      0.00      0.00
ENDATA21

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

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

HDWTR-1           1                                 0.00      0.00      0.00      0.86
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

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

CARD TYPE  ELEMENT    RKILO  NAME                     FLOW       FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                       m³/s        cfs      MGD   deg C      ppt      mg/L     umhos
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WSTLD-1       12      20.70  Co. Canal CC1         -3.79000 -133.82768  -86.508    0.00      0.00     0.000     0.000
WSTLD-1       57      16.20  UCB1                   3.31000  116.87853   75.552   27.87      0.69   360.000  1289.000
WSTLD-1      104      11.50  UCA1                  -1.73000  -61.08757  -39.488    0.00      0.00     0.000     0.000
WSTLD-1      112      10.70  B. Gauche DS         -11.36000 -401.12994 -259.295    0.00      0.00     0.000     0.000
WSTLD-1      163       5.60  B. Gauche US          11.36000  401.12994  259.295   27.88      0.71   346.000  1341.000
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                                    % BOD                              %
CARD TYPE     ELEMENT   NAME                          DO       BOD      RMVL     ORG-N     NH3-N    NITRIF     NO3-N     BOD#2
                                                     mg/L      mg/L                mg/L      mg/L                mg/L      mg/L

WSTLD-1          12     Co. Canal CC1                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WSTLD-1          57     UCB1                         2.76      8.78      0.00      0.00      0.00      0.00      0.00      0.00
WSTLD-1         104     UCA1                         0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WSTLD-1         112     B. Gauche DS                 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WSTLD-1         163     B. Gauche US                 6.25      6.50      0.00      0.00      0.00      0.00      0.00      0.00
ENDATA25

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

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

WSTLD-1          12     Co. Canal CC1                0.00      0.00      0.00      0.00
WSTLD-1          57     UCB1                         0.00      0.00      0.00      1.46
WSTLD-1         104     UCA1                         0.00      0.00      0.00      0.00
WSTLD-1         112     B. Gauche DS                 0.00      0.00      0.00      0.00
WSTLD-1         163     B. Gauche US                 0.00      0.00      0.00      1.32
ENDATA26

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

CARD TYPE    CONSTITUENT                     CONCENTRATION

LOWER BC     TEMPERATURE                        =     29.710     deg C
LOWER BC     SALINITY                           =      0.640     ppt
LOWER BC     CONSERVATIVE MATERIAL I            =    311.000     mg/L
LOWER BC     CONSERVATIVE MATERIAL II           =   1210.500     umhos
LOWER BC     DISSOLVED OXYGEN                   =      7.000     mg/L
LOWER BC     BIOCHEMICAL OXYGEN DEMAND          =      5.590     mg/L
LOWER BC     CHLOROPHYLL A                      =      3.000     µg/L
LOWER BC     NONCONSERVATIVE MATERIAL           =      1.420     mg/L
ENDATA27

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

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

ENDATA28

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

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

ENDATA29
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$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$


NUMBER OF PLOTS =  3
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  2  3  4  5  6  7
NUMBER OF REACHES IN PLOT 2 =   7
PLOT RCH  8  9 10 11 12 13 14
ENDATA30

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


OVERLAY 1 BDA25.OVL                        :BAYOU DES ALLEMANDS REACHES 1-14
OVERLAY 2 BDA3.OVL                         :BAYOU DES ALLEMANDS REACHES 1-7
OVERLAY 3 BDA4.OVL                         :BAYOU DES ALLEMANDS REACHES 7-14
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   1 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
     .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12
     .....GRAPHICS DATA FOR PLOT 3 WRITTEN TO UNIT 13
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EXPANDED CAPSULE SUMMARY FOR

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3 mg/L	CHLA µg/L	DISP m²/s	DEPTH m	WIDTH m	ADVEC VELO m/s	MEAN VELO m/s	DO SAT mg/L	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
		HDWTR	42.000	0.0	0.0	5.3	4.6	0.0	0.0	0.0	0.0													
1	DA 1	21.70	42.082	28.9	0.7	5.3	4.6	0.0	0.0	0.0	8.6	10.0	2.35	404.0	0.044	0.044	7.7	0.651	0.08	0.00	0.00	0.00	0.00	5.69
2	DA 1	21.60	42.164	28.9	0.7	5.3	4.6	0.0	0.0	0.0	8.4	10.0	2.35	404.0	0.044	0.044	7.7	0.652	0.08	0.00	0.00	0.00	0.00	5.69
3	DA 1	21.50	42.246	28.9	0.7	5.2	4.6	0.0	0.0	0.0	8.3	10.0	2.35	404.0	0.044	0.044	7.7	0.652	0.08	0.00	0.00	0.00	0.00	5.69
4	DA 1	21.40	42.328	28.9	0.7	5.2	4.6	0.0	0.0	0.0	8.2	10.0	2.35	404.0	0.045	0.045	7.7	0.653	0.08	0.00	0.00	0.00	0.00	5.69
5	DA 1	21.30	42.410	28.9	0.7	5.2	4.6	0.0	0.0	0.0	8.0	10.0	2.35	404.0	0.045	0.045	7.7	0.654	0.08	0.00	0.00	0.00	0.00	5.69
6	DA 1	21.20	42.492	28.9	0.7	5.2	4.6	0.0	0.0	0.0	7.9	10.0	2.35	404.0	0.045	0.045	7.7	0.654	0.08	0.00	0.00	0.00	0.00	5.69
7	DA 1	21.10	42.574	28.9	0.7	5.2	4.5	0.0	0.0	0.0	7.7	10.0	2.35	404.0	0.045	0.045	7.7	0.655	0.08	0.00	0.00	0.00	0.00	5.69
8	DA 1	21.00	42.656	28.9	0.7	5.2	4.5	0.0	0.0	0.0	7.6	10.0	2.35	404.0	0.045	0.045	7.7	0.656	0.08	0.00	0.00	0.00	0.00	5.69
9	DA 1	20.90	42.738	28.9	0.7	5.1	4.5	0.0	0.0	0.0	7.5	10.0	2.35	404.0	0.045	0.045	7.7	0.656	0.08	0.00	0.00	0.00	0.00	5.69
10	DA 1	20.80	42.820	28.9	0.7	5.1	4.5	0.0	0.0	0.0	7.3	10.0	2.35	404.0	0.045	0.045	7.7	0.657	0.08	0.00	0.00	0.00	0.00	5.69
11	DA 1	20.70	42.902	28.9	0.7	5.1	4.5	0.0	0.0	0.0	7.2	10.0	2.35	404.0	0.045	0.045	7.7	0.657	0.08	0.00	0.00	0.00	0.00	5.69
	DIVERSION # 012 (Co. Canal CC1) LEAVES HERE																							
12	DA 1	20.60	39.194	28.9	0.7	5.1	4.5	0.0	0.0	0.0	7.1	10.0	2.35	404.0	0.041	0.041	7.7	0.629	0.08	0.00	0.00	0.00	0.00	5.69
13	DA 1	20.50	39.276	28.9	0.7	5.1	4.5	0.0	0.0	0.0	6.9	10.0	2.35	404.0	0.041	0.041	7.7	0.630	0.08	0.00	0.00	0.00	0.00	5.69
14	DA 1	20.40	39.358	28.9	0.7	5.0	4.5	0.0	0.0	0.0	6.8	10.0	2.35	404.0	0.041	0.041	7.7	0.631	0.08	0.00	0.00	0.00	0.00	5.69
15	DA 1	20.30	39.441	28.9	0.7	5.0	4.5	0.0	0.0	0.0	6.6	10.0	2.35	404.0	0.042	0.042	7.7	0.631	0.08	0.00	0.00	0.00	0.00	5.69
16	DA 1	20.20	39.523	28.9	0.7	5.0	4.5	0.0	0.0	0.0	6.5	10.0	2.35	404.0	0.042	0.042	7.7	0.632	0.08	0.00	0.00	0.00	0.00	5.69
17	DA 1	20.10	39.605	28.9	0.7	5.0	4.5	0.0	0.0	0.0	6.4	10.0	2.35	404.0	0.042	0.042	7.7	0.633	0.08	0.00	0.00	0.00	0.00	5.69

18	DA	1	20.00	39.687	28.9	0.7	5.0	4.5	0.0	0.0	0.0	6.2	10.0	2.35	404.0	0.042	0.042	7.7	0.633	0.08	0.00	0.00	0.00	0.00	5.69
19	DA	1	19.90	39.769	28.9	0.7	5.0	4.5	0.0	0.0	0.0	6.1	10.0	2.35	404.0	0.042	0.042	7.7	0.634	0.08	0.00	0.00	0.00	0.00	5.69
20	DA	1	19.80	39.851	28.9	0.7	4.9	4.5	0.0	0.0	0.0	6.0	10.0	2.35	404.0	0.042	0.042	7.7	0.634	0.08	0.00	0.00	0.00	0.00	5.69
21	DA	1	19.70	39.933	28.9	0.7	4.9	4.5	0.0	0.0	0.0	5.8	10.0	2.35	404.0	0.042	0.042	7.7	0.635	0.08	0.00	0.00	0.00	0.00	5.69
22	DA	1	19.60	40.015	28.9	0.7	4.9	4.5	0.0	0.0	0.0	5.7	10.0	2.35	404.0	0.042	0.042	7.7	0.636	0.08	0.00	0.00	0.00	0.00	5.69
23	DA	1	19.50	40.097	28.9	0.7	4.9	4.5	0.0	0.0	0.0	5.6	10.0	2.35	404.0	0.042	0.042	7.7	0.636	0.08	0.00	0.00	0.00	0.00	5.69
24	DA	1	19.40	40.179	28.9	0.7	4.9	4.5	0.0	0.0	0.0	5.4	10.0	2.35	404.0	0.042	0.042	7.7	0.637	0.08	0.00	0.00	0.00	0.00	5.69
25	DA	1	19.30	40.261	28.9	0.7	4.9	4.5	0.0	0.0	0.0	5.3	10.0	2.35	404.0	0.042	0.042	7.7	0.637	0.08	0.00	0.00	0.00	0.00	5.69
26	DA	1	19.20	40.343	28.9	0.7	4.8	4.5	0.0	0.0	0.0	5.1	10.0	2.35	404.0	0.042	0.042	7.7	0.638	0.08	0.00	0.00	0.00	0.00	5.69
27	DA	1	19.10	40.425	28.9	0.7	4.8	4.5	0.0	0.0	0.0	5.0	10.0	2.35	404.0	0.043	0.043	7.7	0.639	0.08	0.00	0.00	0.00	0.00	5.69
28	DA	1	19.00	40.507	28.9	0.7	4.8	4.5	0.0	0.0	0.0	4.9	10.0	2.35	404.0	0.043	0.043	7.7	0.639	0.08	0.00	0.00	0.00	0.00	5.69
29	DA	1	18.90	40.589	28.9	0.7	4.8	4.5	0.0	0.0	0.0	4.7	10.0	2.35	404.0	0.043	0.043	7.7	0.640	0.08	0.00	0.00	0.00	0.00	5.69
30	DA	1	18.80	40.671	28.9	0.7	4.8	4.5	0.0	0.0	0.0	4.6	10.0	2.35	404.0	0.043	0.043	7.7	0.641	0.08	0.00	0.00	0.00	0.00	5.69
31	DA	2	18.70	40.753	28.9	0.7	4.8	4.5	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.051	0.051	7.7	0.697	0.08	0.00	0.00	0.00	0.00	5.25
32	DA	2	18.60	40.835	28.9	0.7	4.8	4.5	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.051	0.051	7.7	0.698	0.08	0.00	0.00	0.00	0.00	5.25
33	DA	2	18.50	40.917	28.9	0.7	4.8	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.051	0.051	7.7	0.698	0.08	0.00	0.00	0.00	0.00	5.24
34	DA	2	18.40	40.999	28.9	0.7	4.8	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.051	0.051	7.7	0.699	0.08	0.00	0.00	0.00	0.00	5.24
35	DA	2	18.30	41.081	28.9	0.7	4.8	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.051	0.051	7.7	0.699	0.08	0.00	0.00	0.00	0.00	5.24
36	DA	2	18.20	41.163	28.8	0.7	4.8	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.051	0.051	7.7	0.700	0.08	0.00	0.00	0.00	0.00	5.24
37	DA	2	18.10	41.245	28.8	0.7	4.8	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.051	0.051	7.7	0.701	0.08	0.00	0.00	0.00	0.00	5.23
38	DA	2	18.00	41.327	28.8	0.7	4.8	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.051	0.051	7.7	0.701	0.08	0.00	0.00	0.00	0.00	5.23
39	DA	2	17.90	41.409	28.8	0.7	4.8	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.052	0.052	7.7	0.702	0.07	0.00	0.00	0.00	0.00	5.23
40	DA	2	17.80	41.491	28.8	0.7	4.8	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.052	0.052	7.7	0.703	0.07	0.00	0.00	0.00	0.00	5.23
41	DA	2	17.70	41.573	28.8	0.7	4.7	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.052	0.052	7.7	0.703	0.07	0.00	0.00	0.00	0.00	5.22
42	DA	2	17.60	41.655	28.8	0.7	4.7	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.052	0.052	7.7	0.704	0.07	0.00	0.00	0.00	0.00	5.22
43	DA	2	17.50	41.738	28.8	0.7	4.7	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.052	0.052	7.7	0.705	0.07	0.00	0.00	0.00	0.00	5.22
44	DA	2	17.40	41.820	28.8	0.7	4.7	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.052	0.052	7.7	0.705	0.07	0.00	0.00	0.00	0.00	5.22
45	DA	2	17.30	41.902	28.8	0.7	4.7	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.052	0.052	7.7	0.706	0.07	0.00	0.00	0.00	0.00	5.21
46	DA	2	17.20	41.984	28.8	0.7	4.7	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.052	0.052	7.7	0.706	0.07	0.00	0.00	0.00	0.00	5.21
47	DA	2	17.10	42.066	28.8	0.7	4.7	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.052	0.052	7.7	0.707	0.07	0.00	0.00	0.00	0.00	5.21
48	DA	2	17.00	42.148	28.8	0.7	4.7	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.052	0.052	7.7	0.708	0.07	0.00	0.00	0.00	0.00	5.21
49	DA	2	16.90	42.230	28.7	0.7	4.7	4.6	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.053	0.053	7.7	0.708	0.07	0.00	0.00	0.00	0.00	5.20
50	DA	2	16.80	42.312	28.7	0.7	4.7	4.7	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.053	0.053	7.7	0.709	0.07	0.00	0.00	0.00	0.00	5.20
51	DA	2	16.70	42.394	28.7	0.7	4.7	4.7	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.053	0.053	7.7	0.710	0.07	0.00	0.00	0.00	0.00	5.20
52	DA	2	16.60	42.476	28.7	0.7	4.7	4.7	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.053	0.053	7.7	0.710	0.07	0.00	0.00	0.00	0.00	5.20
53	DA	2	16.50	42.558	28.7	0.7	4.7	4.7	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.053	0.053	7.7	0.711	0.07	0.00	0.00	0.00	0.00	5.19
54	DA	2	16.40	42.640	28.7	0.7	4.7	4.7	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.053	0.053	7.7	0.712	0.07	0.00	0.00	0.00	0.00	5.19
55	DA	2	16.30	42.722	28.7	0.7	4.7	4.8	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.053	0.053	7.7	0.712	0.07	0.00	0.00	0.00	0.00	5.19
56	DA	2	16.20	42.804	28.7	0.7	4.6	4.9	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.053	0.053	7.7	0.713	0.07	0.00	0.00	0.00	0.00	5.19
	WASTELOAD # 057 (UCB1) ENTERS HERE																								
57	DA	2	16.10	46.196	28.7	0.7	4.6	5.0	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.057	0.057	7.7	0.743	0.07	0.00	0.00	0.00	0.00	5.18
58	DA	2	16.00	46.278	28.7	0.7	4.6	5.0	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.058	0.058	7.7	0.744	0.07	0.00	0.00	0.00	0.00	5.18
59	DA	2	15.90	46.360	28.7	0.7	4.6	5.0	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.058	0.058	7.7	0.744	0.07	0.00	0.00	0.00	0.00	5.18
60	DA	2	15.80	46.442	28.7	0.7	4.6	5.0	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.058	0.058	7.7	0.745	0.07	0.00	0.00	0.00	0.00	5.18
61	DA	2	15.70	46.524	28.7	0.7	4.6	5.1	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.058	0.058	7.7	0.745	0.07	0.00	0.00	0.00	0.00	5.17
62	DA	2	15.60	46.606	28.6	0.7	4.7	5.1	0.0	0.0	0.0	4.6	10.0	2.35	342.0	0.058	0.058	7.7	0.746	0.07	0.00	0.00	0.00	0.00	5.17
63	DA	3	15.50	46.688	28.6	0.7	4.7	5.2	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.044	0.044	7.7	0.630	0.07	0.00	0.00	0.00	0.00	0.34
64	DA	3	15.40	46.770	28.6	0.7	4.7	5.2	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.044	0.044	7.7	0.631	0.07	0.00	0.00	0.00	0.00	0.34
65	DA	3	15.30	46.852	28.6	0.7	4.8	5.3	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.044	0.044	7.7	0.631	0.07	0.00	0.00	0.00	0.00	0.34
66	DA	3	15.20	46.934	28.6	0.7	4.8	5.3	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.044	0.044	7.7	0.632	0.07	0.00	0.00	0.00	0.00	0.34
67	DA	3	15.10	47.016	28.6	0.7	4.9	5.4	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.044	0.044	7.7	0.632	0.07	0.00	0.00	0.00	0.00	0.34
68	DA	3	15.00	47.098	28.6	0.7	4.9	5.4	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.044	0.044	7.7	0.633	0.07	0.00	0.00	0.00	0.00	0.34
69	DA	3	14.90	47.180	28.6	0.7	4.9	5.5	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.044	0.044	7.7	0.634	0.07	0.00	0.00	0.00	0.00	0.34
70	DA	3	14.80	47.262	28.6	0.7	5.0	5.5	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.045	0.045	7.7	0.634	0.07	0.00	0.00	0.00	0.00	0.34
71	DA	3	14.70	47.344	28.6	0.7	5.0	5.6	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.045	0.045	7.7	0.635	0.07	0.00	0.00	0.00	0.00	0.34

EXPANDED CAPSULE SUMMARY FOR

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3 mg/L	CHLA µg/L	DISP m²/s	DEPTH m	WIDTH m	ADVEC VELO m/s	MEAN VELO m/s	DO SAT mg/L	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
72	DA 3	14.60	47.426	28.6	0.7	5.0	5.6	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.045	0.045	7.7	0.635	0.07	0.00	0.00	0.00	0.00	0.34
73	DA 3	14.50	47.509	28.6	0.7	5.1	5.7	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.045	0.045	7.7	0.636	0.07	0.00	0.00	0.00	0.00	0.34
74	DA 3	14.40	47.591	28.6	0.7	5.1	5.7	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.045	0.045	7.7	0.636	0.07	0.00	0.00	0.00	0.00	0.34
75	DA 3	14.30	47.673	28.6	0.7	5.1	5.8	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.045	0.045	7.7	0.637	0.07	0.00	0.00	0.00	0.00	0.34
76	DA 3	14.20	47.755	28.6	0.7	5.1	5.8	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.045	0.045	7.7	0.637	0.07	0.00	0.00	0.00	0.00	0.34
77	DA 3	14.10	47.837	28.6	0.7	5.2	5.8	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.045	0.045	7.7	0.638	0.07	0.00	0.00	0.00	0.00	0.34
78	DA 3	14.00	47.919	28.6	0.7	5.2	5.9	0.0	0.0	0.0	4.6	10.0	2.41	440.0	0.045	0.045	7.7	0.638	0.07	0.00	0.00	0.00	0.00	0.34
79	DA 4	13.90	48.001	28.6	0.7	5.2	5.9	0.0	0.0	0.0	5.2	10.0	2.47	267.0	0.073	0.073	7.7	0.810	0.07	0.00	0.00	0.00	0.00	0.34
80	DA 4	13.80	48.083	28.6	0.7	5.2	5.9	0.0	0.0	0.0	5.8	10.0	2.47	267.0	0.073	0.073	7.7	0.811	0.07	0.00	0.00	0.00	0.00	0.34
81	DA 4	13.70	48.165	28.6	0.7	5.3	5.9	0.0	0.0	0.0	6.4	10.0	2.47	267.0	0.073	0.073	7.7	0.811	0.07	0.00	0.00	0.00	0.00	0.34
82	DA 4	13.60	48.247	28.6	0.7	5.3	5.9	0.0	0.0	0.0	7.0	10.0	2.47	267.0	0.073	0.073	7.7	0.812	0.07	0.00	0.00	0.00	0.00	0.34
83	DA 4	13.50	48.329	28.5	0.7	5.3	5.9	0.0	0.0	0.0	7.6	10.0	2.47	267.0	0.073	0.073	7.7	0.812	0.07	0.00	0.00	0.00	0.00	0.34
84	DA 4	13.40	48.411	28.5	0.7	5.4	6.0	0.0	0.0	0.0	8.1	10.0	2.47	267.0	0.073	0.073	7.7	0.813	0.07	0.00	0.00	0.00	0.00	0.34
85	DA 4	13.30	48.493	28.5	0.7	5.4	6.0	0.0	0.0	0.0	8.7	10.0	2.47	267.0	0.074	0.074	7.7	0.813	0.07	0.00	0.00	0.00	0.00	0.34
86	DA 4	13.20	48.575	28.5	0.7	5.4	6.0	0.0	0.0	0.0	9.3	10.0	2.47	267.0	0.074	0.074	7.7	0.814	0.07	0.00	0.00	0.00	0.00	0.34
87	DA 4	13.10	48.657	28.4	0.7	5.5	6.0	0.0	0.0	0.0	9.9	10.0	2.47	267.0	0.074	0.074	7.7	0.814	0.07	0.00	0.00	0.00	0.00	0.34
88	DA 4	13.00	48.739	28.4	0.7	5.5	6.0	0.0	0.0	0.0	10.5	10.0	2.47	267.0	0.074	0.074	7.7	0.815	0.07	0.00	0.00	0.00	0.00	0.34
89	DA 5	12.90	48.821	28.4	0.7	5.5	6.0	0.0	0.0	0.0	10.9	10.0	2.49	334.0	0.059	0.059	7.7	0.706	0.07	0.00	0.00	0.00	0.00	0.34
90	DA 5	12.80	48.903	28.4	0.7	5.6	6.0	0.0	0.0	0.0	11.3	10.0	2.49	334.0	0.059	0.059	7.7	0.707	0.07	0.00	0.00	0.00	0.00	0.34
91	DA 5	12.70	48.985	28.4	0.7	5.6	6.0	0.0	0.0	0.0	11.8	10.0	2.49	334.0	0.059	0.059	7.7	0.707	0.07	0.00	0.00	0.00	0.00	0.34
92	DA 5	12.60	49.067	28.4	0.7	5.6	6.0	0.0	0.0	0.0	12.2	10.0	2.49	334.0	0.059	0.059	7.7	0.708	0.07	0.00	0.00	0.00	0.00	0.34
93	DA 5	12.50	49.149	28.4	0.7	5.6	6.0	0.0	0.0	0.0	12.6	10.0	2.49	334.0	0.059	0.059	7.7	0.709	0.07	0.00	0.00	0.00	0.00	0.34
94	DA 5	12.40	49.231	28.4	0.7	5.7	6.0	0.0	0.0	0.0	13.0	10.0	2.49	334.0	0.059	0.059	7.7	0.709	0.07	0.00	0.00	0.00	0.00	0.34
95	DA 5	12.30	49.313	28.4	0.7	5.7	6.0	0.0	0.0	0.0	13.4	10.0	2.49	334.0	0.059	0.059	7.7	0.710	0.07	0.00	0.00	0.00	0.00	0.34
96	DA 5	12.20	49.395	28.4	0.7	5.7	6.0	0.0	0.0	0.0	13.9	10.0	2.49	334.0	0.059	0.059	7.7	0.711	0.07	0.00	0.00	0.00	0.00	0.34
97	DA 5	12.10	49.477	28.4	0.7	5.8	6.0	0.0	0.0	0.0	14.3	10.0	2.49	334.0	0.059	0.059	7.7	0.711	0.07	0.00	0.00	0.00	0.00	0.34
98	DA 5	12.00	49.559	28.4	0.7	5.8	6.0	0.0	0.0	0.0	14.7	10.0	2.49	334.0	0.060	0.060	7.7	0.712	0.07	0.00	0.00	0.00	0.00	0.34
99	DA 5	11.90	49.641	28.4	0.7	5.8	6.0	0.0	0.0	0.0	15.1	10.0	2.49	334.0	0.060	0.060	7.7	0.713	0.07	0.00	0.00	0.00	0.00	0.34
100	DA 5	11.80	49.723	28.4	0.7	5.9	6.0	0.0	0.0	0.0	15.6	10.0	2.49	334.0	0.060	0.060	7.7	0.713	0.07	0.00	0.00	0.00	0.00	0.34
101	DA 5	11.70	49.805	28.4	0.7	5.9	6.0	0.0	0.0	0.0	16.0	10.0	2.49	334.0	0.060	0.060	7.7	0.714	0.07	0.00	0.00	0.00	0.00	0.34
102	DA 5	11.60	49.887	28.4	0.7	6.0	6.0	0.0	0.0	0.0	16.4	10.0	2.49	334.0	0.060	0.060	7.7	0.715	0.07	0.00	0.00	0.00	0.00	0.34
103	DA 6	11.50	49.970	28.4	0.7	6.0	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.050	0.050	7.7	0.646	0.07	0.00	0.00	0.00	0.00	0.34
	DIVERSION # 104 (UCA1) LEAVES HERE																							
104	DA 6	11.40	48.322	28.4	0.7	6.0	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.049	0.049	7.7	0.635	0.07	0.00	0.00	0.00	0.00	0.34
105	DA 6	11.30	48.404	28.4	0.7	6.1	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.049	0.049	7.7	0.636	0.07	0.00	0.00	0.00	0.00	0.34
106	DA 6	11.20	48.486	28.4	0.7	6.1	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.049	0.049	7.7	0.636	0.07	0.00	0.00	0.00	0.00	0.34
107	DA 6	11.10	48.568	28.4	0.7	6.1	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.049	0.049	7.7	0.637	0.07	0.00	0.00	0.00	0.00	0.34
108	DA 6	11.00	48.650	28.4	0.7	6.2	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.049	0.049	7.7	0.638	0.07	0.00	0.00	0.00	0.00	0.34
109	DA 6	10.90	48.732	28.4	0.7	6.2	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.049	0.049	7.7	0.638	0.07	0.00	0.00	0.00	0.00	0.34
110	DA 6	10.80	48.814	28.4	0.7	6.2	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.049	0.049	7.7	0.639	0.07	0.00	0.00	0.00	0.00	0.34
111	DA 6	10.70	48.896	28.4	0.7	6.2	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.049	0.049	7.7	0.639	0.07	0.00	0.00	0.00	0.00	0.34
	DIVERSION # 112 (B. Gauche DS) LEAVES HERE																							
112	DA 6	10.60	37.618	28.4	0.7	6.3	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.038	0.038	7.7	0.563	0.07	0.00	0.00	0.00	0.00	0.34
113	DA 6	10.50	37.700	28.4	0.7	6.3	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.038	0.038	7.7	0.564	0.07	0.00	0.00	0.00	0.00	0.34
114	DA 6	10.40	37.782	28.4	0.7	6.3	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.038	0.038	7.7	0.565	0.07	0.00	0.00	0.00	0.00	0.34
115	DA 6	10.30	37.864	28.4	0.7	6.4	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.038	0.038	7.7	0.565	0.07	0.00	0.00	0.00	0.00	0.34
116	DA 6	10.20	37.946	28.4	0.7	6.4	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.038	0.038	7.7	0.566	0.07	0.00	0.00	0.00	0.00	0.34
117	DA 6	10.10	38.028	28.4	0.7	6.4	6.0	0.0	0.0	0.0	16.4	10.0	2.50	398.0	0.038	0.038	7.7	0.566	0.07	0.00	0.00	0.00	0.00	0.34
118	DA 7	10.00	38.110	28.4	0.7	6.4	5.9	0.0	0.0	0.0	16.0	10.0	2.50	231.0	0.066	0.066	7.7	0.752	0.07	0.00	0.00	0.00	0.00	0.85
119	DA 7	9.90	38.192	28.4	0.7	6.4	5.9	0.0	0.0	0.0	15.7	10.0	2.50	231.0	0.066	0.066	7.7	0.753	0.07	0.00	0.00	0.00	0.00	0.85
120	DA 7	9.80	38.274	28.4	0.7	6.5	5.9	0.0	0.0	0.0	15.3	10.0	2.50	231.0	0.066	0.066	7.7	0.754	0.07	0.00	0.00	0.00	0.00	0.85

121	DA	7	9.70	38.356	28.5	0.7	6.5	5.9	0.0	0.0	0.0	15.0	10.0	2.50	231.0	0.066	0.066	7.7	0.755	0.07	0.00	0.00	0.00	0.00	0.85
122	DA	7	9.60	38.438	28.5	0.7	6.5	5.9	0.0	0.0	0.0	14.6	10.0	2.50	231.0	0.067	0.067	7.7	0.756	0.07	0.00	0.00	0.00	0.00	0.85
123	DA	7	9.50	38.520	28.5	0.7	6.5	5.9	0.0	0.0	0.0	14.3	10.0	2.50	231.0	0.067	0.067	7.7	0.758	0.07	0.00	0.00	0.00	0.00	0.85
124	DA	7	9.40	38.602	28.5	0.7	6.5	5.9	0.0	0.0	0.0	13.9	10.0	2.50	231.0	0.067	0.067	7.7	0.759	0.07	0.00	0.00	0.00	0.00	0.85
125	DA	7	9.30	38.684	28.5	0.7	6.5	5.9	0.0	0.0	0.0	13.6	10.0	2.50	231.0	0.067	0.067	7.7	0.760	0.07	0.00	0.00	0.00	0.00	0.85
126	DA	7	9.20	38.766	28.5	0.7	6.5	5.9	0.0	0.0	0.0	13.2	10.0	2.50	231.0	0.067	0.067	7.7	0.761	0.07	0.00	0.00	0.00	0.00	0.86
127	DA	7	9.10	38.848	28.5	0.7	6.6	5.9	0.0	0.0	0.0	12.9	10.0	2.50	231.0	0.067	0.067	7.7	0.762	0.07	0.00	0.00	0.00	0.00	0.86
128	DA	7	9.00	38.930	28.5	0.7	6.6	5.9	0.0	0.0	0.0	12.5	10.0	2.50	231.0	0.067	0.067	7.7	0.763	0.07	0.00	0.00	0.00	0.00	0.86
129	DA	7	8.90	39.012	28.6	0.7	6.6	5.8	0.0	0.0	0.0	12.2	10.0	2.50	231.0	0.068	0.068	7.7	0.764	0.07	0.00	0.00	0.00	0.00	0.86
130	DA	7	8.80	39.094	28.6	0.7	6.6	5.8	0.0	0.0	0.0	11.8	10.0	2.50	231.0	0.068	0.068	7.7	0.765	0.07	0.00	0.00	0.00	0.00	0.86
131	DA	7	8.70	39.176	28.6	0.7	6.6	5.8	0.0	0.0	0.0	11.5	10.0	2.50	231.0	0.068	0.068	7.7	0.767	0.07	0.00	0.00	0.00	0.00	0.86
132	DA	7	8.60	39.259	28.6	0.7	6.6	5.8	0.0	0.0	0.0	11.1	10.0	2.50	231.0	0.068	0.068	7.7	0.768	0.07	0.00	0.00	0.00	0.00	0.86
133	DA	7	8.50	39.341	28.6	0.7	6.6	5.8	0.0	0.0	0.0	10.8	10.0	2.50	231.0	0.068	0.068	7.7	0.769	0.07	0.00	0.00	0.00	0.00	0.86
134	DA	7	8.40	39.423	28.6	0.7	6.6	5.8	0.0	0.0	0.0	10.4	10.0	2.50	231.0	0.068	0.068	7.7	0.770	0.07	0.00	0.00	0.00	0.00	0.86
135	DA	8	8.30	39.505	28.6	0.7	6.6	5.8	0.0	0.0	0.0	10.1	10.0	2.34	180.0	0.094	0.094	7.7	1.006	0.07	0.00	0.00	0.00	0.00	2.58
136	DA	8	8.20	39.587	28.6	0.7	6.6	5.8	0.0	0.0	0.0	9.7	10.0	2.34	180.0	0.094	0.094	7.7	1.007	0.07	0.00	0.00	0.00	0.00	2.59
137	DA	8	8.10	39.669	28.7	0.7	6.6	5.8	0.0	0.0	0.0	9.3	10.0	2.34	180.0	0.094	0.094	7.7	1.009	0.07	0.00	0.00	0.00	0.00	2.59
138	DA	8	8.00	39.751	28.7	0.7	6.6	5.8	0.0	0.0	0.0	9.0	10.0	2.34	180.0	0.094	0.094	7.7	1.011	0.07	0.00	0.00	0.00	0.00	2.59
139	DA	8	7.90	39.833	28.7	0.7	6.6	5.8	0.0	0.0	0.0	8.6	10.0	2.34	180.0	0.095	0.095	7.7	1.012	0.07	0.00	0.00	0.00	0.00	2.59
140	DA	8	7.80	39.915	28.7	0.7	6.6	5.8	0.0	0.0	0.0	8.2	10.0	2.34	180.0	0.095	0.095	7.7	1.014	0.07	0.00	0.00	0.00	0.00	2.59
141	DA	8	7.70	39.997	28.7	0.7	6.6	5.8	0.0	0.0	0.0	7.8	10.0	2.34	180.0	0.095	0.095	7.7	1.016	0.07	0.00	0.00	0.00	0.00	2.60
142	DA	8	7.60	40.079	28.7	0.7	6.6	5.7	0.0	0.0	0.0	7.5	10.0	2.34	180.0	0.095	0.095	7.7	1.017	0.07	0.00	0.00	0.00	0.00	2.60
143	DA	8	7.50	40.161	28.7	0.7	6.6	5.7	0.0	0.0	0.0	7.1	10.0	2.34	180.0	0.095	0.095	7.7	1.019	0.07	0.00	0.00	0.00	0.00	2.60

EXPANDED CAPSULE SUMMARY FOR

IOR	REACH		DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3 mg/L	CHLA µg/L	DISP m²/s	DEPTH m	WIDTH m	ADVEC VELO m/s	MEAN VELO m/s	DO SAT mg/L	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
144	DA	8	7.40	40.243	28.8	0.7	6.6	5.7	0.0	0.0	0.0	6.7	10.0	2.34	180.0	0.096	0.096	7.7	1.021	0.07	0.00	0.00	0.00	0.00	2.60
145	DA	8	7.30	40.325	28.8	0.7	6.6	5.7	0.0	0.0	0.0	6.4	10.0	2.34	180.0	0.096	0.096	7.7	1.022	0.07	0.00	0.00	0.00	0.00	2.61
146	DA	8	7.20	40.407	28.8	0.7	6.6	5.7	0.0	0.0	0.0	6.0	10.0	2.34	180.0	0.096	0.096	7.7	1.024	0.07	0.00	0.00	0.00	0.00	2.61
147	DA	8	7.10	40.489	28.8	0.7	6.6	5.7	0.0	0.0	0.0	5.6	10.0	2.34	180.0	0.096	0.096	7.7	1.026	0.07	0.00	0.00	0.00	0.00	2.61
148	DA	8	7.00	40.571	28.8	0.7	6.6	5.7	0.0	0.0	0.0	5.2	10.0	2.34	180.0	0.096	0.096	7.7	1.027	0.07	0.00	0.00	0.00	0.00	2.61
149	DA	8	6.90	40.653	28.8	0.7	6.6	5.7	0.0	0.0	0.0	4.9	10.0	2.34	180.0	0.097	0.097	7.7	1.029	0.07	0.00	0.00	0.00	0.00	2.62
150	DA	8	6.80	40.735	28.8	0.7	6.6	5.7	0.0	0.0	0.0	4.5	10.0	2.34	180.0	0.097	0.097	7.7	1.030	0.08	0.00	0.00	0.00	0.00	2.62
151	DA	9	6.70	40.817	28.8	0.7	6.6	5.7	0.0	0.0	0.0	4.5	10.0	2.17	264.0	0.071	0.071	7.7	0.914	0.08	0.00	0.00	0.00	0.00	2.62
152	DA	9	6.60	40.899	28.8	0.7	6.6	5.7	0.0	0.0	0.0	4.5	10.0	2.17	264.0	0.071	0.071	7.7	0.915	0.08	0.00	0.00	0.00	0.00	2.62
153	DA	9	6.50	40.981	28.8	0.7	6.5	5.7	0.0	0.0	0.0	4.5	10.0	2.17	264.0	0.072	0.072	7.7	0.916	0.08	0.00	0.00	0.00	0.00	2.62
154	DA	9	6.40	41.063	28.8	0.7	6.5	5.7	0.0	0.0	0.0	4.5	10.0	2.17	264.0	0.072	0.072	7.7	0.917	0.08	0.00	0.00	0.00	0.00	2.62
155	DA	9	6.30	41.145	28.8	0.7	6.5	5.7	0.0	0.0	0.0	4.5	10.0	2.17	264.0	0.072	0.072	7.7	0.918	0.08	0.00	0.00	0.00	0.00	2.62
156	DA	9	6.20	41.227	28.8	0.7	6.5	5.6	0.0	0.0	0.0	4.5	10.0	2.17	264.0	0.072	0.072	7.7	0.919	0.08	0.00	0.00	0.00	0.00	2.62
157	DA	9	6.10	41.309	28.8	0.7	6.5	5.6	0.0	0.0	0.0	4.5	10.0	2.17	264.0	0.072	0.072	7.7	0.920	0.08	0.00	0.00	0.00	0.00	2.62
158	DA	9	6.00	41.391	28.8	0.7	6.5	5.6	0.0	0.0	0.0	4.5	10.0	2.17	264.0	0.072	0.072	7.7	0.921	0.08	0.00	0.00	0.00	0.00	2.62
159	DA	9	5.90	41.473	28.8	0.7	6.5	5.6	0.0	0.0	0.0	4.5	10.0	2.17	264.0	0.072	0.072	7.7	0.922	0.08	0.00	0.00	0.00	0.00	2.62
160	DA	10	5.80	41.555	28.9	0.7	6.5	5.6	0.0	0.0	0.0	4.4	10.0	1.97	1058.0	0.020	0.020	7.7	0.568	0.08	0.00	0.00	0.00	0.00	0.35
161	DA	10	5.70	41.637	28.9	0.7	6.5	5.6	0.0	0.0	0.0	4.4	10.0	1.97	1058.0	0.020	0.020	7.7	0.569	0.08	0.00	0.00	0.00	0.00	0.35
162	DA	10	5.60	41.720	28.9	0.7	6.5	5.6	0.0	0.0	0.0	4.3	10.0	1.97	1058.0	0.020	0.020	7.7	0.569	0.08	0.00	0.00	0.00	0.00	0.35
WASTELOAD # 163 (B. Gauche US) ENTERS HERE																									
163	DA	10	5.50	53.162	29.0	0.7	6.5	5.7	0.0	0.0	0.0	4.3	10.0	1.97	1058.0	0.026	0.026	7.7	0.617	0.08	0.00	0.00	0.00	0.00	0.35
164	DA	10	5.40	53.244	29.0	0.7	6.5	5.7	0.0	0.0	0.0	4.2	10.0	1.97	1058.0	0.026	0.026	7.7	0.617	0.08	0.00	0.00	0.00	0.00	0.35
165	DA	10	5.30	53.326	29.0	0.7	6.5	5.6	0.0	0.0	0.0	4.2	10.0	1.97	1058.0	0.026	0.026	7.7	0.618	0.08	0.00	0.00	0.00	0.00	0.35
166	DA	10	5.20	53.408	29.1	0.7	6.5	5.6	0.0	0.0	0.0	4.1	10.0	1.97	1058.0	0.026	0.026	7.7	0.619	0.08	0.00	0.00	0.00	0.00	0.35
167	DA	10	5.10	53.490	29.1	0.7	6.5	5.6	0.0	0.0	0.0	4.1	10.0	1.97	1058.0	0.026	0.026	7.6	0.619	0.08	0.00	0.00	0.00	0.00	0.35
168	DA	10	5.00	53.572	29.1	0.7	6.6	5.6	0.0	0.0	0.0	4.0	10.0	1.97	1058.0	0.026	0.026	7.6	0.620	0.08	0.00	0.00	0.00	0.00	0.36
169	DA	10	4.90	53.654	29.2	0.7	6.6	5.6	0.0	0.0	0.0	4.0	10.0	1.97	1058.0	0.026	0.026	7.6	0.621	0.08	0.00	0.00	0.00	0.00	0.36

170	DA 10	4.80	53.736	29.2	0.7	6.6	5.6	0.0	0.0	0.0	3.9	10.0	1.971058.0	0.026	0.026	7.6	0.621	0.08	0.00	0.00	0.00	0.00	0.36
171	DA 10	4.70	53.818	29.2	0.7	6.6	5.6	0.0	0.0	0.0	3.9	10.0	1.971058.0	0.026	0.026	7.6	0.622	0.08	0.00	0.00	0.00	0.00	0.36
172	DA 10	4.60	53.900	29.2	0.7	6.6	5.6	0.0	0.0	0.0	3.8	10.0	1.971058.0	0.026	0.026	7.6	0.623	0.08	0.00	0.00	0.00	0.00	0.36
173	DA 10	4.50	53.982	29.3	0.7	6.6	5.6	0.0	0.0	0.0	3.8	10.0	1.971058.0	0.026	0.026	7.6	0.623	0.08	0.00	0.00	0.00	0.00	0.36
174	DA 11	4.40	54.064	29.3	0.7	6.6	5.6	0.0	0.0	0.0	3.8	10.0	1.761224.0	0.025	0.025	7.6	0.690	0.08	0.00	0.00	0.00	0.00	0.36
175	DA 11	4.30	54.146	29.3	0.7	6.6	5.6	0.0	0.0	0.0	3.8	10.0	1.761224.0	0.025	0.025	7.6	0.690	0.08	0.00	0.00	0.00	0.00	0.36
176	DA 11	4.20	54.228	29.3	0.7	6.6	5.6	0.0	0.0	0.0	3.8	10.0	1.761224.0	0.025	0.025	7.6	0.691	0.08	0.00	0.00	0.00	0.00	0.36
177	DA 11	4.10	54.310	29.3	0.7	6.6	5.6	0.0	0.0	0.0	3.8	10.0	1.761224.0	0.025	0.025	7.6	0.691	0.08	0.00	0.00	0.00	0.00	0.36
178	DA 11	4.00	54.392	29.3	0.7	6.6	5.6	0.0	0.0	0.0	3.8	10.0	1.761224.0	0.025	0.025	7.6	0.692	0.08	0.00	0.00	0.00	0.00	0.36
179	DA 11	3.90	54.474	29.3	0.7	6.6	5.6	0.0	0.0	0.0	3.8	10.0	1.761224.0	0.025	0.025	7.6	0.692	0.08	0.00	0.00	0.00	0.00	0.36
180	DA 11	3.80	54.556	29.3	0.7	6.6	5.6	0.0	0.0	0.0	3.8	10.0	1.761224.0	0.025	0.025	7.6	0.692	0.08	0.00	0.00	0.00	0.00	0.36
181	DA 11	3.70	54.638	29.3	0.7	6.6	5.6	0.0	0.0	0.0	3.8	10.0	1.761224.0	0.025	0.025	7.6	0.693	0.08	0.00	0.00	0.00	0.00	0.36
182	DA 11	3.60	54.720	29.3	0.7	6.6	5.6	0.0	0.0	0.0	3.8	10.0	1.761224.0	0.025	0.025	7.6	0.693	0.08	0.00	0.00	0.00	0.00	0.36
183	DA 12	3.50	54.802	29.3	0.7	6.6	5.6	0.0	0.0	0.0	3.7	10.0	1.811010.0	0.030	0.030	7.6	0.717	0.08	0.00	0.00	0.00	0.00	0.36
184	DA 12	3.40	54.884	29.4	0.7	6.6	5.6	0.0	0.0	0.0	3.6	10.0	1.811010.0	0.030	0.030	7.6	0.719	0.08	0.00	0.00	0.00	0.00	0.36
185	DA 12	3.30	54.966	29.4	0.7	6.6	5.6	0.0	0.0	0.0	3.5	10.0	1.811010.0	0.030	0.030	7.6	0.720	0.08	0.00	0.00	0.00	0.00	0.36
186	DA 12	3.20	55.048	29.5	0.7	6.6	5.6	0.0	0.0	0.0	3.4	10.0	1.811010.0	0.030	0.030	7.6	0.721	0.08	0.00	0.00	0.00	0.00	0.36
187	DA 12	3.10	55.130	29.5	0.7	6.6	5.6	0.0	0.0	0.0	3.3	10.0	1.811010.0	0.030	0.030	7.6	0.722	0.08	0.00	0.00	0.00	0.00	0.36
188	DA 12	3.00	55.212	29.6	0.7	6.6	5.6	0.0	0.0	0.0	3.2	10.0	1.811010.0	0.030	0.030	7.6	0.723	0.08	0.00	0.00	0.00	0.00	0.37
189	DA 12	2.90	55.294	29.7	0.7	6.6	5.6	0.0	0.0	0.0	3.1	10.0	1.811010.0	0.030	0.030	7.6	0.724	0.08	0.00	0.00	0.00	0.00	0.37
190	DA 12	2.80	55.377	29.7	0.6	6.6	5.6	0.0	0.0	0.0	3.0	10.0	1.811010.0	0.030	0.030	7.6	0.725	0.08	0.00	0.00	0.00	0.00	0.37
191	DA 13	2.70	55.459	29.7	0.6	6.6	5.6	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.060	0.060	7.6	0.984	0.08	0.00	0.00	0.00	0.00	0.37
192	DA 13	2.60	55.541	29.7	0.6	6.6	5.6	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.060	0.060	7.6	0.984	0.08	0.00	0.00	0.00	0.00	0.37
193	DA 13	2.50	55.623	29.7	0.6	6.7	5.6	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.060	0.060	7.6	0.985	0.08	0.00	0.00	0.00	0.00	0.37
194	DA 13	2.40	55.705	29.7	0.6	6.7	5.6	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.060	0.060	7.6	0.986	0.08	0.00	0.00	0.00	0.00	0.37
195	DA 13	2.30	55.787	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.060	0.060	7.6	0.987	0.08	0.00	0.00	0.00	0.00	0.37
196	DA 13	2.20	55.869	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.060	0.060	7.6	0.988	0.08	0.00	0.00	0.00	0.00	0.37
197	DA 13	2.10	55.951	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.060	0.060	7.6	0.988	0.08	0.00	0.00	0.00	0.00	0.37
198	DA 13	2.00	56.033	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.061	0.061	7.6	0.989	0.08	0.00	0.00	0.00	0.00	0.37
199	DA 13	1.90	56.115	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.061	0.061	7.6	0.990	0.08	0.00	0.00	0.00	0.00	0.37
200	DA 13	1.80	56.197	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.061	0.061	7.6	0.991	0.08	0.00	0.00	0.00	0.00	0.37
201	DA 13	1.70	56.279	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.061	0.061	7.6	0.992	0.08	0.00	0.00	0.00	0.00	0.37
202	DA 13	1.60	56.361	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.061	0.061	7.6	0.993	0.08	0.00	0.00	0.00	0.00	0.37
203	DA 13	1.50	56.443	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.061	0.061	7.6	0.993	0.08	0.00	0.00	0.00	0.00	0.37
204	DA 13	1.40	56.525	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.061	0.061	7.6	0.994	0.08	0.00	0.00	0.00	0.00	0.37
205	DA 13	1.30	56.607	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.061	0.061	7.6	0.995	0.08	0.00	0.00	0.00	0.00	0.37
206	DA 13	1.20	56.689	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 500.0	0.061	0.061	7.6	0.996	0.08	0.00	0.00	0.00	0.00	0.37
207	DA 14	1.10	56.771	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 213.0	0.144	0.144	7.6	1.761	0.08	0.00	0.00	0.00	0.00	0.37
208	DA 14	1.00	56.853	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 213.0	0.144	0.144	7.6	1.763	0.08	0.00	0.00	0.00	0.00	0.37
209	DA 14	0.90	56.935	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 213.0	0.144	0.144	7.6	1.765	0.08	0.00	0.00	0.00	0.00	0.37
210	DA 14	0.80	57.017	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 213.0	0.145	0.145	7.6	1.767	0.08	0.00	0.00	0.00	0.00	0.37
211	DA 14	0.70	57.099	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 213.0	0.145	0.145	7.6	1.769	0.08	0.00	0.00	0.00	0.00	0.37
212	DA 14	0.60	57.181	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 213.0	0.145	0.145	7.6	1.771	0.08	0.00	0.00	0.00	0.00	0.37
213	DA 14	0.50	57.263	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 213.0	0.145	0.145	7.6	1.773	0.08	0.00	0.00	0.00	0.00	0.37
214	DA 14	0.40	57.345	29.7	0.6	6.7	5.7	0.0	0.0	0.0	3.0	10.0	1.85 213.0	0.146	0.146	7.6	1.774	0.08	0.00	0.00	0.00	0.00	0.37
215	DA 14	0.30	57.427	29.7	0.6	6.8	5.7	0.0	0.0	0.0	3.0	10.0	1.85 213.0	0.146	0.146	7.6	1.776	0.08	0.00	0.00	0.00	0.00	0.37
216	DA 14	0.20	57.509	29.7	0.6	6.8	5.7	0.0	0.0	0.0	3.0	10.0	1.85 213.0	0.146	0.146	7.6	1.778	0.08	0.00	0.00	0.00	0.00	0.37

EXPANDED CAPSULE SUMMARY FOR

IOR	REACH	DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORG-N mg/L	NH3 mg/L	CHLA µg/L	DISP m²/s	DEPTH m	WIDTH m	ADVEC VELO m/s	MEAN VELO m/s	DO SAT mg/L	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
217	DA 14	0.10	57.591	29.7	0.6	6.8	5.7	0.0	0.0	0.0	3.0	10.0	1.85	213.0	0.146	0.146	7.6	1.780	0.08	0.00	0.00	0.00	0.00	0.37
218	DA 14	0.00	57.673	29.7	0.6	6.9	5.6	0.0	0.0	0.0	3.0	10.0	1.85	213.0	0.146	0.146	7.6	1.782	0.08	0.00	0.00	0.00	0.00	0.37

FINAL REPORT
REACH NO. 1 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
1	HDWTR	42.00000	0.00	0.00	369.00	1405.00	5.32	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86
EACH	INCR	0.08203	0.00	0.00	270.00	1160.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	
12	WSTLD	-3.79000	28.89	0.66	366.29	1398.30	5.08	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	7.06	0.00	0.86

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
1	21.80	21.70	42.08204	0.0	0.04432	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.044
2	21.70	21.60	42.16407	0.0	0.04441	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.044
3	21.60	21.50	42.24611	0.0	0.04450	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.044
4	21.50	21.40	42.32814	0.0	0.04458	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.045
5	21.40	21.30	42.41018	0.0	0.04467	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.045
6	21.30	21.20	42.49221	0.0	0.04476	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.045
7	21.20	21.10	42.57425	0.0	0.04484	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.045
8	21.10	21.00	42.65628	0.0	0.04493	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.045
9	21.00	20.90	42.73832	0.0	0.04502	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.045
10	20.90	20.80	42.82035	0.0	0.04510	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.045
11	20.80	20.70	42.90239	0.0	0.04519	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.045
12	20.70	20.60	39.19442	0.0	0.04128	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.041
13	20.60	20.50	39.27645	0.0	0.04137	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.041
14	20.50	20.40	39.35849	0.0	0.04146	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.041
15	20.40	20.30	39.44053	0.0	0.04154	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.042
16	20.30	20.20	39.52256	0.0	0.04163	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.042
17	20.20	20.10	39.60460	0.0	0.04172	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.042
18	20.10	20.00	39.68663	0.0	0.04180	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.042
19	20.00	19.90	39.76867	0.0	0.04189	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.042
20	19.90	19.80	39.85070	0.0	0.04197	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.042
21	19.80	19.70	39.93274	0.0	0.04206	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.042
22	19.70	19.60	40.01477	0.0	0.04215	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.042
23	19.60	19.50	40.09681	0.0	0.04223	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.042
24	19.50	19.40	40.17884	0.0	0.04232	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.042
25	19.40	19.30	40.26088	0.0	0.04241	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.042
26	19.30	19.20	40.34291	0.0	0.04249	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.042
27	19.20	19.10	40.42495	0.0	0.04258	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.043
28	19.10	19.00	40.50698	0.0	0.04267	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.043
29	19.00	18.90	40.58902	0.0	0.04275	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.043
30	18.90	18.80	40.67105	0.0	0.04284	0.03	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.043
TOT						0.81			2848200.00	1212000.00					
AVG					0.04301		2.35	404.00			949.40				
CUM						0.81									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da
1	21.700	7.68	0.65	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.16
2	21.600	7.68	0.65	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.16
3	21.500	7.68	0.65	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.16
4	21.400	7.68	0.65	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.16
5	21.300	7.68	0.65	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.16
6	21.200	7.68	0.65	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.16
7	21.100	7.68	0.65	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.16
8	21.000	7.68	0.66	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.16
9	20.900	7.68	0.66	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.16
10	20.800	7.68	0.66	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.16
11	20.700	7.68	0.66	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.16
12	20.600	7.68	0.63	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.16
13	20.500	7.68	0.63	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.16
14	20.400	7.68	0.63	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.16
15	20.300	7.68	0.63	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.16
16	20.200	7.68	0.63	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.16
17	20.100	7.68	0.63	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.16
18	20.000	7.68	0.63	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.16
19	19.900	7.68	0.63	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.16
20	19.800	7.68	0.63	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.16
21	19.700	7.68	0.63	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.16
22	19.600	7.68	0.64	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.16
23	19.500	7.68	0.64	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.16
24	19.400	7.68	0.64	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.16
25	19.300	7.68	0.64	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.16
26	19.200	7.68	0.64	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.16
27	19.100	7.68	0.64	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.16
28	19.000	7.68	0.64	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.16
29	18.900	7.68	0.64	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.16
30	18.800	7.68	0.64	0.08	0.00	0.00	0.00	0.00	0.00	5.69	5.69	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.16
AVG	20 DEG C RATE		0.54	0.05	0.00	0.00	0.00	0.00	0.00	3.25			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
1	21.700	28.89	0.66	368.38	1403.46	5.27	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	8.56	0.00	0.	0.86
2	21.600	28.89	0.66	368.19	1402.99	5.25	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	8.43	0.00	0.	0.86
3	21.500	28.89	0.66	368.00	1402.52	5.23	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	8.29	0.00	0.	0.86
4	21.400	28.89	0.66	367.81	1402.05	5.22	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	8.15	0.00	0.	0.86
5	21.300	28.89	0.66	367.62	1401.59	5.20	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	8.02	0.00	0.	0.86
6	21.200	28.89	0.66	367.43	1401.12	5.19	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	7.88	0.00	0.	0.86
7	21.100	28.89	0.66	367.25	1400.66	5.17	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	7.74	0.00	0.	0.86
8	21.000	28.89	0.66	367.06	1400.19	5.15	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	7.61	0.00	0.	0.86

9	20.900	28.89	0.66	366.87	1399.72	5.14	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	7.47	0.00	0.	0.86
10	20.800	28.89	0.66	366.68	1399.26	5.12	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	7.33	0.00	0.	0.86
11	20.700	28.89	0.66	366.49	1398.78	5.10	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.	0.86
12	20.600	28.89	0.66	366.29	1398.30	5.08	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	7.06	0.00	0.	0.86
13	20.500	28.89	0.66	366.09	1397.81	5.07	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	6.92	0.00	0.	0.86
14	20.400	28.89	0.66	365.90	1397.32	5.05	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	6.79	0.00	0.	0.86
15	20.300	28.89	0.66	365.70	1396.83	5.03	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	6.65	0.00	0.	0.86
16	20.200	28.89	0.66	365.50	1396.34	5.01	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	6.51	0.00	0.	0.86
17	20.100	28.89	0.66	365.31	1395.86	4.99	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	6.38	0.00	0.	0.86
18	20.000	28.89	0.66	365.11	1395.38	4.98	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	6.24	0.00	0.	0.86
19	19.900	28.89	0.66	364.92	1394.89	4.96	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	6.10	0.00	0.	0.86
20	19.800	28.89	0.66	364.72	1394.42	4.94	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	5.97	0.00	0.	0.86
21	19.700	28.89	0.66	364.53	1393.94	4.93	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	5.83	0.00	0.	0.86
22	19.600	28.89	0.66	364.34	1393.47	4.91	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	5.69	0.00	0.	0.86
23	19.500	28.89	0.66	364.15	1393.00	4.89	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	5.56	0.00	0.	0.86
24	19.400	28.89	0.66	363.96	1392.53	4.88	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	5.42	0.00	0.	0.86
25	19.300	28.89	0.66	363.78	1392.07	4.86	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00	0.	0.86
26	19.200	28.89	0.66	363.59	1391.61	4.85	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	5.15	0.00	0.	0.86
27	19.100	28.89	0.66	363.41	1391.16	4.83	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	5.01	0.00	0.	0.86
28	19.000	28.89	0.66	363.23	1390.72	4.82	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.	0.86
29	18.900	28.89	0.66	363.05	1390.28	4.81	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	4.74	0.00	0.	0.87
30	18.800	28.89	0.66	362.88	1389.87	4.80	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.87

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
31	UPR RCH	40.67105	28.89	0.66	362.88	1389.87	4.80	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.87
EACH	INCR	0.08203	0.00	0.00	270.00	1160.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	
57	WSTLD	3.31000	27.87	0.69	360.00	1289.00	2.76	8.78	0.00	8.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.46

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
31	18.80	18.70	40.75309	0.0	0.05071	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.051
32	18.70	18.60	40.83512	0.0	0.05081	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.051
33	18.60	18.50	40.91716	0.0	0.05091	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.051
34	18.50	18.40	40.99919	0.0	0.05101	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.051
35	18.40	18.30	41.08123	0.0	0.05112	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.051
36	18.30	18.20	41.16326	0.0	0.05122	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.051
37	18.20	18.10	41.24530	0.0	0.05132	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.051
38	18.10	18.00	41.32733	0.0	0.05142	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.051
39	18.00	17.90	41.40937	0.0	0.05152	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.052
40	17.90	17.80	41.49140	0.0	0.05163	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.052
41	17.80	17.70	41.57344	0.0	0.05173	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.052
42	17.70	17.60	41.65547	0.0	0.05183	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.052
43	17.60	17.50	41.73751	0.0	0.05193	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.052
44	17.50	17.40	41.81954	0.0	0.05203	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.052
45	17.40	17.30	41.90158	0.0	0.05214	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.052
46	17.30	17.20	41.98361	0.0	0.05224	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.052
47	17.20	17.10	42.06565	0.0	0.05234	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.052
48	17.10	17.00	42.14768	0.0	0.05244	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.052
49	17.00	16.90	42.22972	0.0	0.05254	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.053
50	16.90	16.80	42.31175	0.0	0.05265	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.053
51	16.80	16.70	42.39379	0.0	0.05275	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.053
52	16.70	16.60	42.47582	0.0	0.05285	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.053
53	16.60	16.50	42.55786	0.0	0.05295	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.053
54	16.50	16.40	42.63989	0.0	0.05305	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.053
55	16.40	16.30	42.72193	0.0	0.05316	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.053
56	16.30	16.20	42.80396	0.0	0.05326	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.053
57	16.20	16.10	46.19600	7.2	0.05748	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.057
58	16.10	16.00	46.27803	7.2	0.05758	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.058
59	16.00	15.90	46.36007	7.1	0.05768	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.058
60	15.90	15.80	46.44210	7.1	0.05779	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.058
61	15.80	15.70	46.52414	7.1	0.05789	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.058
62	15.70	15.60	46.60617	7.1	0.05799	0.02	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.058
TOT						0.70			2571839.75	1094400.00					
AVG					0.05296		2.35	342.00			803.70				
CUM						1.51									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da
31	18.700	7.68	0.70	0.08	0.00	0.00	0.00	0.00	0.00	5.25	5.25	5.25	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.16
32	18.600	7.68	0.70	0.08	0.00	0.00	0.00	0.00	0.00	5.25	5.25	5.25	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.16
33	18.500	7.68	0.70	0.08	0.00	0.00	0.00	0.00	0.00	5.24	5.24	5.24	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.16
34	18.400	7.68	0.70	0.08	0.00	0.00	0.00	0.00	0.00	5.24	5.24	5.24	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.16
35	18.300	7.68	0.70	0.08	0.00	0.00	0.00	0.00	0.00	5.24	5.24	5.24	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.16
36	18.200	7.68	0.70	0.08	0.00	0.00	0.00	0.00	0.00	5.24	5.24	5.24	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.16
37	18.100	7.68	0.70	0.08	0.00	0.00	0.00	0.00	0.00	5.23	5.23	5.23	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.16
38	18.000	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	5.23	5.23	5.23	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.16
39	17.900	7.69	0.70	0.07	0.00	0.00	0.00	0.00	0.00	5.23	5.23	5.23	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
40	17.800	7.69	0.70	0.07	0.00	0.00	0.00	0.00	0.00	5.23	5.23	5.23	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
41	17.700	7.69	0.70	0.07	0.00	0.00	0.00	0.00	0.00	5.22	5.22	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
42	17.600	7.69	0.70	0.07	0.00	0.00	0.00	0.00	0.00	5.22	5.22	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
43	17.500	7.69	0.70	0.07	0.00	0.00	0.00	0.00	0.00	5.22	5.22	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
44	17.400	7.69	0.71	0.07	0.00	0.00	0.00	0.00	0.00	5.22	5.22	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
45	17.300	7.69	0.71	0.07	0.00	0.00	0.00	0.00	0.00	5.21	5.21	5.21	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
46	17.200	7.69	0.71	0.07	0.00	0.00	0.00	0.00	0.00	5.21	5.21	5.21	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
47	17.100	7.69	0.71	0.07	0.00	0.00	0.00	0.00	0.00	5.21	5.21	5.21	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
48	17.000	7.70	0.71	0.07	0.00	0.00	0.00	0.00	0.00	5.21	5.21	5.21	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
49	16.900	7.70	0.71	0.07	0.00	0.00	0.00	0.00	0.00	5.20	5.20	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
50	16.800	7.70	0.71	0.07	0.00	0.00	0.00	0.00	0.00	5.20	5.20	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
51	16.700	7.70	0.71	0.07	0.00	0.00	0.00	0.00	0.00	5.20	5.20	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
52	16.600	7.70	0.71	0.07	0.00	0.00	0.00	0.00	0.00	5.20	5.20	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
53	16.500	7.70	0.71	0.07	0.00	0.00	0.00	0.00	0.00	5.19	5.19	5.19	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
54	16.400	7.70	0.71	0.07	0.00	0.00	0.00	0.00	0.00	5.19	5.19	5.19	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
55	16.300	7.70	0.71	0.07	0.00	0.00	0.00	0.00	0.00	5.19	5.19	5.19	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
56	16.200	7.70	0.71	0.07	0.00	0.00	0.00	0.00	0.00	5.19	5.19	5.19	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
57	16.100	7.70	0.74	0.07	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
58	16.000	7.71	0.74	0.07	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
59	15.900	7.71	0.74	0.07	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
60	15.800	7.71	0.74	0.07	0.00	0.00	0.00	0.00	0.00	5.18	5.18	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
61	15.700	7.71	0.75	0.07	0.00	0.00	0.00	0.00	0.00	5.17	5.17	5.17	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
62	15.600	7.71	0.75	0.07	0.00	0.00	0.00	0.00	0.00	5.17	5.17	5.17	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
AVG 20 DEG C RATE			0.61	0.05	0.00	0.00	0.00	0.00	0.00	3.00			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
31	18.700	28.88	0.66	362.71	1389.43	4.79	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.87
32	18.600	28.88	0.66	362.52	1388.97	4.79	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.87
33	18.500	28.87	0.66	362.34	1388.52	4.78	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.88
34	18.400	28.86	0.66	362.16	1388.07	4.78	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.88
35	18.300	28.85	0.66	361.97	1387.61	4.77	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.88
36	18.200	28.84	0.66	361.79	1387.16	4.77	4.57	0.00	4.57	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.89
37	18.100	28.84	0.66	361.61	1386.71	4.76	4.57	0.00	4.57	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.89
38	18.000	28.83	0.66	361.43	1386.27	4.76	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.89
39	17.900	28.82	0.66	361.25	1385.82	4.76	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.89
40	17.800	28.81	0.66	361.07	1385.38	4.75	4.59	0.00	4.59	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.90
41	17.700	28.81	0.66	360.89	1384.93	4.75	4.60	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.90
42	17.600	28.80	0.66	360.72	1384.49	4.74	4.60	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.90
43	17.500	28.79	0.66	360.54	1384.04	4.74	4.61	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.91
44	17.400	28.78	0.66	360.36	1383.60	4.74	4.61	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.91
45	17.300	28.78	0.66	360.19	1383.15	4.73	4.62	0.00	4.62	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.91
46	17.200	28.77	0.67	360.01	1382.70	4.73	4.62	0.00	4.62	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.92
47	17.100	28.76	0.67	359.84	1382.23	4.72	4.63	0.00	4.63	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.92
48	17.000	28.75	0.67	359.67	1381.76	4.72	4.64	0.00	4.64	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.92
49	16.900	28.75	0.67	359.50	1381.26	4.72	4.65	0.00	4.65	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.92
50	16.800	28.74	0.67	359.33	1380.72	4.71	4.66	0.00	4.66	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.93
51	16.700	28.73	0.67	359.16	1380.12	4.71	4.67	0.00	4.67	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.93
52	16.600	28.73	0.67	358.99	1379.44	4.70	4.69	0.00	4.69	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.94
53	16.500	28.72	0.67	358.83	1378.62	4.69	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.94
54	16.400	28.71	0.67	358.68	1377.59	4.67	4.74	0.00	4.74	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.95
55	16.300	28.70	0.67	358.53	1376.24	4.65	4.79	0.00	4.79	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.96
56	16.200	28.69	0.67	358.40	1374.39	4.62	4.87	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.97
57	16.100	28.69	0.67	358.28	1371.77	4.58	4.98	0.00	4.98	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.99
58	16.000	28.68	0.67	358.12	1371.39	4.59	4.99	0.00	4.99	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.99
59	15.900	28.67	0.67	357.96	1371.00	4.59	5.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.00
60	15.800	28.66	0.67	357.79	1370.61	4.61	5.02	0.00	5.02	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.01
61	15.700	28.66	0.67	357.62	1370.20	4.63	5.05	0.00	5.05	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.03
62	15.600	28.65	0.67	357.44	1369.77	4.66	5.10	0.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.05

FINAL REPORT
REACH NO. 3 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
63	UPR RCH	46.60617	28.65	0.67	357.44	1369.77	4.66	5.10	0.00	5.10	0.00	0.00	0.00	0.00	0.00	4.60	0.00	1.05
EACH	INCR	0.08203	0.00	0.00	270.00	1160.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
63	15.60	15.50	46.68821	7.1	0.04403	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.044
64	15.50	15.40	46.77024	7.1	0.04411	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.044
65	15.40	15.30	46.85227	7.1	0.04418	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.044
66	15.30	15.20	46.93430	7.1	0.04426	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.044
67	15.20	15.10	47.01633	7.0	0.04434	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.044
68	15.10	15.00	47.09836	7.0	0.04442	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.044
69	15.00	14.90	47.18039	7.0	0.04449	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.044
70	14.90	14.80	47.26242	7.0	0.04457	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.045
71	14.80	14.70	47.34446	7.0	0.04465	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.045
72	14.70	14.60	47.42649	7.0	0.04473	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.045
73	14.60	14.50	47.50852	7.0	0.04480	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.045
74	14.50	14.40	47.59055	7.0	0.04488	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.045
75	14.40	14.30	47.67258	6.9	0.04496	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.045
76	14.30	14.20	47.75461	6.9	0.04503	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.045
77	14.20	14.10	47.83664	6.9	0.04511	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.045
78	14.10	14.00	47.91867	6.9	0.04519	0.03	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.045
TOT						0.42			1696640.00	704000.00					
AVG					0.04461		2.41	440.00			1060.40				
CUM						1.92									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da
63	15.500	7.71	0.63	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
64	15.400	7.71	0.63	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
65	15.300	7.71	0.63	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
66	15.200	7.71	0.63	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
67	15.100	7.71	0.63	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
68	15.000	7.71	0.63	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
69	14.900	7.71	0.63	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
70	14.800	7.71	0.63	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
71	14.700	7.71	0.63	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
72	14.600	7.71	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
73	14.500	7.71	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
74	14.400	7.71	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
75	14.300	7.71	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
76	14.200	7.71	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
77	14.100	7.71	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
78	14.000	7.71	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
AVG	20 DEG C RATE		0.54	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
63	15.500	28.65	0.67	357.28	1369.37	4.71	5.15	0.00	5.15	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.08
64	15.400	28.65	0.67	357.13	1369.01	4.75	5.21	0.00	5.21	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.11
65	15.300	28.65	0.67	356.97	1368.64	4.78	5.26	0.00	5.26	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.13
66	15.200	28.65	0.67	356.82	1368.28	4.82	5.32	0.00	5.32	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.16
67	15.100	28.65	0.67	356.67	1367.92	4.86	5.37	0.00	5.37	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.19
68	15.000	28.65	0.67	356.53	1367.57	4.89	5.42	0.00	5.42	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.21
69	14.900	28.65	0.67	356.38	1367.21	4.93	5.47	0.00	5.47	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.24
70	14.800	28.65	0.67	356.23	1366.86	4.96	5.52	0.00	5.52	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.26
71	14.700	28.65	0.67	356.08	1366.51	5.00	5.57	0.00	5.57	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.29
72	14.600	28.65	0.67	355.94	1366.16	5.03	5.62	0.00	5.62	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.31
73	14.500	28.65	0.67	355.80	1365.82	5.06	5.67	0.00	5.67	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.34
74	14.400	28.65	0.67	355.66	1365.48	5.09	5.72	0.00	5.72	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.36
75	14.300	28.65	0.67	355.52	1365.16	5.12	5.76	0.00	5.76	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.38
76	14.200	28.65	0.67	355.39	1364.84	5.15	5.80	0.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.40
77	14.100	28.65	0.67	355.27	1364.54	5.17	5.83	0.00	5.83	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.42
78	14.000	28.65	0.67	355.15	1364.27	5.19	5.85	0.00	5.85	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.43

FINAL REPORT
REACH NO. 4 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
79	UPR RCH	47.91867	28.65	0.67	355.15	1364.27	5.19	5.85	0.00	5.85	0.00	0.00	0.00	0.00	0.00	4.60	0.00	1.43
EACH	INCR	0.08203	0.00	0.00	270.00	1160.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
79	14.00	13.90	48.00071	6.9	0.07278	0.02	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.073
80	13.90	13.80	48.08274	6.9	0.07291	0.02	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.073
81	13.80	13.70	48.16477	6.9	0.07303	0.02	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.073
82	13.70	13.60	48.24680	6.9	0.07316	0.02	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.073
83	13.60	13.50	48.32883	6.8	0.07328	0.02	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.073
84	13.50	13.40	48.41086	6.8	0.07341	0.02	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.073
85	13.40	13.30	48.49289	6.8	0.07353	0.02	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.074
86	13.30	13.20	48.57492	6.8	0.07366	0.02	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.074
87	13.20	13.10	48.65696	6.8	0.07378	0.02	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.074
88	13.10	13.00	48.73899	6.8	0.07390	0.02	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.074
TOT						0.16			659490.00	267000.00					
AVG					0.07334		2.47	267.00			659.49				
CUM						2.08									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da
79	13.900	7.71	0.81	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.16
80	13.800	7.72	0.81	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.16
81	13.700	7.72	0.81	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.16
82	13.600	7.72	0.81	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.16
83	13.500	7.73	0.81	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.16
84	13.400	7.73	0.81	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.16
85	13.300	7.73	0.81	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.16
86	13.200	7.74	0.81	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.16
87	13.100	7.74	0.81	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.16
88	13.000	7.74	0.81	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.16
AVG 20 DEG C RATE			0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
79	13.900	28.63	0.67	355.03	1363.97	5.22	5.87	0.00	5.87	0.00	0.00	0.00	0.00	0.00	0.00	5.19	0.00	0.	1.43
80	13.800	28.60	0.67	354.88	1363.63	5.25	5.89	0.00	5.89	0.00	0.00	0.00	0.00	0.00	0.00	5.78	0.00	0.	1.44
81	13.700	28.58	0.67	354.74	1363.28	5.27	5.90	0.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	6.37	0.00	0.	1.45
82	13.600	28.55	0.67	354.59	1362.93	5.30	5.92	0.00	5.92	0.00	0.00	0.00	0.00	0.00	0.00	6.96	0.00	0.	1.46
83	13.500	28.53	0.68	354.45	1362.59	5.33	5.94	0.00	5.94	0.00	0.00	0.00	0.00	0.00	0.00	7.55	0.00	0.	1.47
84	13.400	28.51	0.68	354.31	1362.24	5.36	5.95	0.00	5.95	0.00	0.00	0.00	0.00	0.00	0.00	8.14	0.00	0.	1.47
85	13.300	28.48	0.68	354.16	1361.89	5.39	5.97	0.00	5.97	0.00	0.00	0.00	0.00	0.00	0.00	8.73	0.00	0.	1.48
86	13.200	28.46	0.68	354.01	1361.54	5.42	5.98	0.00	5.98	0.00	0.00	0.00	0.00	0.00	0.00	9.32	0.00	0.	1.49
87	13.100	28.43	0.68	353.86	1361.18	5.45	6.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	9.91	0.00	0.	1.49
88	13.000	28.41	0.68	353.71	1360.80	5.49	6.01	0.00	6.01	0.00	0.00	0.00	0.00	0.00	0.00	10.50	0.00	0.	1.49

FINAL REPORT
REACH NO. 5 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
89	UPR RCH	48.73899	28.41	0.68	353.71	1360.80	5.49	6.01	0.00	6.01	0.00	0.00	0.00	0.00	0.00	10.50	0.00	1.49
EACH	INCR	0.08204	0.00	0.00	270.00	1160.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
89	13.00	12.90	48.82102	6.8	0.05870	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.059
90	12.90	12.80	48.90306	6.8	0.05880	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.059
91	12.80	12.70	48.98509	6.8	0.05890	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.059
92	12.70	12.60	49.06713	6.7	0.05900	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.059
93	12.60	12.50	49.14916	6.7	0.05910	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.059
94	12.50	12.40	49.23120	6.7	0.05920	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.059
95	12.40	12.30	49.31323	6.7	0.05929	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.059
96	12.30	12.20	49.39527	6.7	0.05939	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.059
97	12.20	12.10	49.47730	6.7	0.05949	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.059
98	12.10	12.00	49.55934	6.7	0.05959	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.060
99	12.00	11.90	49.64137	6.7	0.05969	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.060
100	11.90	11.80	49.72341	6.7	0.05979	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.060
101	11.80	11.70	49.80544	6.6	0.05989	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.060
102	11.70	11.60	49.88748	6.6	0.05999	0.02	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.060
TOT						0.27			1164324.00	467600.00					
AVG					0.05934		2.49	334.00			831.66				
CUM						2.35									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
89	12.900	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.16	0.00
90	12.800	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.16	0.00
91	12.700	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.16	0.00
92	12.600	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.16	0.00
93	12.500	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.16	0.00
94	12.400	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.16	0.00
95	12.300	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.16	0.00
96	12.200	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.16	0.00
97	12.100	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.16	0.00
98	12.000	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.16	0.00
99	11.900	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.16	0.00

100	11.800	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.16
101	11.700	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.16
102	11.600	7.74	0.71	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
AVG 20 DEG C RATE			0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
89	12.900	28.41	0.68	353.56	1360.44	5.52	6.01	0.00	6.01	0.00	0.00	0.00	0.00	0.00	0.00	10.92	0.00	0.	1.48
90	12.800	28.41	0.68	353.42	1360.11	5.55	6.01	0.00	6.01	0.00	0.00	0.00	0.00	0.00	0.00	11.34	0.00	0.	1.48
91	12.700	28.41	0.68	353.28	1359.78	5.58	6.01	0.00	6.01	0.00	0.00	0.00	0.00	0.00	0.00	11.76	0.00	0.	1.47
92	12.600	28.41	0.68	353.14	1359.44	5.62	6.01	0.00	6.01	0.00	0.00	0.00	0.00	0.00	0.00	12.19	0.00	0.	1.47
93	12.500	28.41	0.68	353.00	1359.11	5.65	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	0.00	12.61	0.00	0.	1.46
94	12.400	28.41	0.68	352.86	1358.78	5.68	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	0.00	13.03	0.00	0.	1.46
95	12.300	28.41	0.68	352.73	1358.45	5.71	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	0.00	13.45	0.00	0.	1.45
96	12.200	28.41	0.68	352.59	1358.12	5.74	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	0.00	13.87	0.00	0.	1.45
97	12.100	28.41	0.68	352.45	1357.79	5.78	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	0.00	14.29	0.00	0.	1.44
98	12.000	28.41	0.68	352.31	1357.46	5.81	6.03	0.00	6.03	0.00	0.00	0.00	0.00	0.00	0.00	14.71	0.00	0.	1.44
99	11.900	28.41	0.68	352.17	1357.13	5.84	6.03	0.00	6.03	0.00	0.00	0.00	0.00	0.00	0.00	15.14	0.00	0.	1.43
100	11.800	28.41	0.68	352.03	1356.79	5.88	6.03	0.00	6.03	0.00	0.00	0.00	0.00	0.00	0.00	15.56	0.00	0.	1.43
101	11.700	28.41	0.68	351.89	1356.44	5.91	6.03	0.00	6.03	0.00	0.00	0.00	0.00	0.00	0.00	15.98	0.00	0.	1.42
102	11.600	28.41	0.68	351.74	1356.09	5.95	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.41

FINAL REPORT
REACH NO. 6 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
103	UPR RCH	49.88748	28.41	0.68	351.74	1356.09	5.95	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	16.40	0.00	1.41
EACH	INCR	0.08203	0.00	0.00	270.00	1160.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	
104	WSTLD	-1.73000	28.41	0.68	351.46	1355.41	6.02	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	16.40	0.00	1.40
112	WSTLD	-11.36000	28.41	0.68	350.32	1352.68	6.28	5.98	0.00	5.98	0.00	0.00	0.00	0.00	0.00	16.40	0.00	1.36

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
103	11.60	11.50	49.96951	6.6	0.05022	0.02	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.050
104	11.50	11.40	48.32155	6.6	0.04856	0.02	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.049
105	11.40	11.30	48.40358	6.6	0.04865	0.02	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.049
106	11.30	11.20	48.48562	6.6	0.04873	0.02	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.049
107	11.20	11.10	48.56765	6.6	0.04881	0.02	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.049
108	11.10	11.00	48.64969	6.6	0.04889	0.02	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.049
109	11.00	10.90	48.73172	6.6	0.04898	0.02	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.049
110	10.90	10.80	48.81376	6.5	0.04906	0.02	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.049
111	10.80	10.70	48.89579	6.5	0.04914	0.02	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.049
112	10.70	10.60	37.61783	6.5	0.03781	0.03	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.038
113	10.60	10.50	37.69986	6.5	0.03789	0.03	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.038
114	10.50	10.40	37.78190	6.5	0.03797	0.03	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.038
115	10.40	10.30	37.86393	6.5	0.03805	0.03	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.038
116	10.30	10.20	37.94597	6.5	0.03814	0.03	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.038
117	10.20	10.10	38.02800	6.5	0.03822	0.03	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.038
TOT						0.40			1492500.00	597000.00					
AVG					0.04392		2.50	398.00			995.00				
CUM						2.75									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da
103	11.500	7.74	0.65	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
104	11.400	7.74	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
105	11.300	7.74	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
106	11.200	7.74	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
107	11.100	7.74	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
108	11.000	7.74	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
109	10.900	7.74	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
110	10.800	7.74	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
111	10.700	7.74	0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
112	10.600	7.74	0.56	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
113	10.500	7.74	0.56	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
114	10.400	7.74	0.56	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
115	10.300	7.74	0.57	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
116	10.200	7.74	0.57	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
117	10.100	7.74	0.57	0.07	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.16
AVG	20 DEG C RATE		0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
103	11.500	28.41	0.68	351.60	1355.74	5.99	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.41
104	11.400	28.41	0.68	351.46	1355.41	6.02	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.40
105	11.300	28.41	0.68	351.32	1355.08	6.06	6.01	0.00	6.01	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.40
106	11.200	28.41	0.68	351.18	1354.75	6.09	6.01	0.00	6.01	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.39
107	11.100	28.41	0.68	351.04	1354.42	6.12	6.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.39
108	11.000	28.41	0.68	350.90	1354.08	6.16	6.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.38
109	10.900	28.41	0.68	350.76	1353.74	6.19	5.99	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.37
110	10.800	28.41	0.68	350.62	1353.40	6.22	5.99	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.37
111	10.700	28.41	0.68	350.47	1353.05	6.25	5.99	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.36
112	10.600	28.41	0.68	350.32	1352.68	6.28	5.98	0.00	5.98	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.36
113	10.500	28.41	0.68	350.16	1352.30	6.31	5.97	0.00	5.97	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.35
114	10.400	28.41	0.68	350.00	1351.92	6.34	5.97	0.00	5.97	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.34
115	10.300	28.41	0.68	349.86	1351.57	6.37	5.96	0.00	5.96	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.34
116	10.200	28.41	0.68	349.72	1351.23	6.39	5.96	0.00	5.96	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.33
117	10.100	28.41	0.68	349.59	1350.92	6.41	5.95	0.00	5.95	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	1.33

FINAL REPORT
REACH NO. 7 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
118	UPR RCH	38.02800	28.41	0.68	349.59	1350.92	6.41	5.95	0.00	5.95	0.00	0.00	0.00	0.00	0.00	16.40	0.00	1.33
EACH	INCR	0.08204	0.00	0.00	270.00	1160.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
118	10.10	10.00	38.11004	6.4	0.06599	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.066
119	10.00	9.90	38.19207	6.4	0.06613	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.066
120	9.90	9.80	38.27411	6.4	0.06628	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.066
121	9.80	9.70	38.35614	6.4	0.06642	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.066
122	9.70	9.60	38.43818	6.4	0.06656	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.067
123	9.60	9.50	38.52021	6.4	0.06670	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.067
124	9.50	9.40	38.60225	6.4	0.06684	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.067
125	9.40	9.30	38.68428	6.3	0.06699	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.067
126	9.30	9.20	38.76632	6.3	0.06713	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.067
127	9.20	9.10	38.84835	6.3	0.06727	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.067
128	9.10	9.00	38.93039	6.3	0.06741	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.067
129	9.00	8.90	39.01242	6.3	0.06755	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.068
130	8.90	8.80	39.09446	6.3	0.06770	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.068
131	8.80	8.70	39.17649	6.3	0.06784	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.068
132	8.70	8.60	39.25853	6.3	0.06798	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.068
133	8.60	8.50	39.34056	6.2	0.06812	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.068
134	8.50	8.40	39.42260	6.2	0.06826	0.02	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.068

TOT								0.29				981750.00	392700.00									
AVG						0.06712			2.50	231.00						577.50						
CUM								3.04														

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da
118	10.000	7.74	0.75	0.07	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.16
119	9.900	7.74	0.75	0.07	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.16
120	9.800	7.74	0.75	0.07	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00	1.13	0.00	0.00	0.16
121	9.700	7.73	0.76	0.07	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.00	0.00	0.16
122	9.600	7.73	0.76	0.07	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.16
123	9.500	7.73	0.76	0.07	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.16
124	9.400	7.73	0.76	0.07	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.16
125	9.300	7.73	0.76	0.07	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.16
126	9.200	7.73	0.76	0.07	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.16
127	9.100	7.72	0.76	0.07	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.16
128	9.000	7.72	0.76	0.07	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.16
129	8.900	7.72	0.76	0.07	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.16
130	8.800	7.72	0.77	0.07	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.16
131	8.700	7.72	0.77	0.07	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.16
132	8.600	7.72	0.77	0.07	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.16
133	8.500	7.71	0.77	0.07	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.16
134	8.400	7.71	0.77	0.07	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.16
AVG	20 DEG C RATE		0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
118	10.000	28.42	0.68	349.45	1350.59	6.42	5.94	0.00	5.94	0.00	0.00	0.00	0.00	0.00	0.00	16.05	0.00	0.	1.33
119	9.900	28.43	0.68	349.28	1350.18	6.44	5.93	0.00	5.93	0.00	0.00	0.00	0.00	0.00	0.00	15.70	0.00	0.	1.32
120	9.800	28.45	0.68	349.11	1349.78	6.46	5.93	0.00	5.93	0.00	0.00	0.00	0.00	0.00	0.00	15.35	0.00	0.	1.32
121	9.700	28.46	0.68	348.94	1349.37	6.48	5.92	0.00	5.92	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.	1.31
122	9.600	28.47	0.68	348.77	1348.97	6.49	5.91	0.00	5.91	0.00	0.00	0.00	0.00	0.00	0.00	14.65	0.00	0.	1.31
123	9.500	28.48	0.68	348.61	1348.57	6.51	5.90	0.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	14.30	0.00	0.	1.31
124	9.400	28.50	0.68	348.44	1348.17	6.52	5.89	0.00	5.89	0.00	0.00	0.00	0.00	0.00	0.00	13.95	0.00	0.	1.30
125	9.300	28.51	0.68	348.28	1347.78	6.54	5.88	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00	13.60	0.00	0.	1.30
126	9.200	28.52	0.69	348.11	1347.38	6.55	5.87	0.00	5.87	0.00	0.00	0.00	0.00	0.00	0.00	13.25	0.00	0.	1.29
127	9.100	28.53	0.69	347.95	1346.99	6.56	5.86	0.00	5.86	0.00	0.00	0.00	0.00	0.00	0.00	12.90	0.00	0.	1.29
128	9.000	28.55	0.69	347.79	1346.60	6.57	5.85	0.00	5.85	0.00	0.00	0.00	0.00	0.00	0.00	12.55	0.00	0.	1.28
129	8.900	28.56	0.69	347.63	1346.22	6.58	5.84	0.00	5.84	0.00	0.00	0.00	0.00	0.00	0.00	12.20	0.00	0.	1.28
130	8.800	28.57	0.69	347.47	1345.83	6.59	5.83	0.00	5.83	0.00	0.00	0.00	0.00	0.00	0.00	11.85	0.00	0.	1.28
131	8.700	28.58	0.69	347.31	1345.46	6.60	5.82	0.00	5.82	0.00	0.00	0.00	0.00	0.00	0.00	11.50	0.00	0.	1.27
132	8.600	28.60	0.69	347.16	1345.09	6.61	5.82	0.00	5.82	0.00	0.00	0.00	0.00	0.00	0.00	11.15	0.00	0.	1.27
133	8.500	28.61	0.69	347.01	1344.73	6.62	5.81	0.00	5.81	0.00	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.	1.27

134	8.400	28.62	0.69	346.87	1344.40	6.62	5.80	0.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00	0.	1.26

FINAL REPORT
REACH NO. 8 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
135	UPR RCH	39.42260	28.62	0.69	346.87	1344.40	6.62	5.80	0.00	5.80	0.00	0.00	0.00	0.00	0.00	10.45	0.00	1.26
EACH	INCR	0.08203	0.00	0.00	270.00	1160.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
135	8.40	8.30	39.50463	6.2	0.09379	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.094
136	8.30	8.20	39.58666	6.2	0.09399	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.094
137	8.20	8.10	39.66869	6.2	0.09418	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.094
138	8.10	8.00	39.75072	6.2	0.09437	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.094
139	8.00	7.90	39.83276	6.2	0.09457	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.095
140	7.90	7.80	39.91479	6.1	0.09476	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.095
141	7.80	7.70	39.99682	6.1	0.09496	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.095
142	7.70	7.60	40.07885	6.1	0.09515	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.095
143	7.60	7.50	40.16088	6.1	0.09535	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.095
144	7.50	7.40	40.24291	6.1	0.09554	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.096
145	7.40	7.30	40.32494	6.1	0.09574	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.096
146	7.30	7.20	40.40697	6.1	0.09593	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.096
147	7.20	7.10	40.48901	6.1	0.09613	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.096
148	7.10	7.00	40.57104	6.0	0.09632	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.096
149	7.00	6.90	40.65307	6.0	0.09652	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.097
150	6.90	6.80	40.73510	6.0	0.09671	0.01	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.097
TOT						0.19			673920.00	288000.00					
AVG					0.09524		2.34	180.00			421.20				
CUM						3.24									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da
NCM SETT 1/da																						
135	8.300	7.71	1.01	0.07	0.00	0.00	0.00	0.00	0.00	2.58	2.58	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.16
136	8.200	7.71	1.01	0.07	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.16
137	8.100	7.71	1.01	0.07	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.16
138	8.000	7.71	1.01	0.07	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.16
139	7.900	7.70	1.01	0.07	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.16
140	7.800	7.70	1.01	0.07	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.16
0.00																						

141	7.700	7.70	1.02	0.07	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.16
0100	7.600	7.70	1.02	0.07	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.16
0100	7.500	7.70	1.02	0.07	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.16
0100	7.400	7.69	1.02	0.07	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.16
0105	7.300	7.69	1.02	0.07	0.00	0.00	0.00	0.00	0.00	2.61	2.61	2.61	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.16
0106	7.200	7.69	1.02	0.07	0.00	0.00	0.00	0.00	0.00	2.61	2.61	2.61	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.16
0107	7.100	7.69	1.03	0.07	0.00	0.00	0.00	0.00	0.00	2.61	2.61	2.61	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.16
0108	7.000	7.69	1.03	0.07	0.00	0.00	0.00	0.00	0.00	2.61	2.61	2.61	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.16
0109	6.900	7.68	1.03	0.07	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.16
0150	6.800	7.68	1.03	0.08	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
0.00																						
AVG 20 DEG C RATE			0.87	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09
0.00																						

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
135	8.300	28.63	0.69	346.72	1344.05	6.62	5.80	0.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	10.08	0.00	0.	1.26
136	8.200	28.65	0.69	346.56	1343.67	6.62	5.79	0.00	5.79	0.00	0.00	0.00	0.00	0.00	0.00	9.71	0.00	0.	1.26
137	8.100	28.66	0.69	346.41	1343.29	6.62	5.78	0.00	5.78	0.00	0.00	0.00	0.00	0.00	0.00	9.33	0.00	0.	1.25
138	8.000	28.68	0.69	346.25	1342.92	6.62	5.78	0.00	5.78	0.00	0.00	0.00	0.00	0.00	0.00	8.96	0.00	0.	1.25
139	7.900	28.69	0.69	346.09	1342.54	6.62	5.77	0.00	5.77	0.00	0.00	0.00	0.00	0.00	0.00	8.59	0.00	0.	1.25
140	7.800	28.70	0.69	345.94	1342.17	6.62	5.76	0.00	5.76	0.00	0.00	0.00	0.00	0.00	0.00	8.22	0.00	0.	1.25
141	7.700	28.72	0.69	345.78	1341.80	6.61	5.76	0.00	5.76	0.00	0.00	0.00	0.00	0.00	0.00	7.85	0.00	0.	1.24
142	7.600	28.73	0.69	345.63	1341.43	6.61	5.75	0.00	5.75	0.00	0.00	0.00	0.00	0.00	0.00	7.47	0.00	0.	1.24
143	7.500	28.74	0.70	345.47	1341.06	6.61	5.74	0.00	5.74	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	0.	1.24
144	7.400	28.76	0.70	345.32	1340.69	6.60	5.74	0.00	5.74	0.00	0.00	0.00	0.00	0.00	0.00	6.73	0.00	0.	1.23
145	7.300	28.77	0.70	345.17	1340.32	6.60	5.73	0.00	5.73	0.00	0.00	0.00	0.00	0.00	0.00	6.36	0.00	0.	1.23
146	7.200	28.78	0.70	345.01	1339.95	6.60	5.72	0.00	5.72	0.00	0.00	0.00	0.00	0.00	0.00	5.99	0.00	0.	1.23
147	7.100	28.80	0.70	344.86	1339.58	6.59	5.71	0.00	5.71	0.00	0.00	0.00	0.00	0.00	0.00	5.62	0.00	0.	1.23
148	7.000	28.81	0.70	344.70	1339.20	6.59	5.71	0.00	5.71	0.00	0.00	0.00	0.00	0.00	0.00	5.24	0.00	0.	1.22
149	6.900	28.83	0.70	344.54	1338.81	6.58	5.70	0.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.	1.22
150	6.800	28.84	0.70	344.37	1338.38	6.57	5.69	0.00	5.69	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.22

FINAL REPORT
REACH NO. 9 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
151	UPR RCH	40.73510	28.84	0.70	344.37	1338.38	6.57	5.69	0.00	5.69	0.00	0.00	0.00	0.00	0.00	4.50	0.00	1.22
EACH	INCR	0.08203	0.00	0.00	270.00	1160.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	

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

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

	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
151	6.80	6.70	40.81713	6.0	0.07125	0.02	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.071
152	6.70	6.60	40.89917	6.0	0.07139	0.02	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.071
153	6.60	6.50	40.98120	6.0	0.07154	0.02	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.072
154	6.50	6.40	41.06324	6.0	0.07168	0.02	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.072
155	6.40	6.30	41.14528	6.0	0.07182	0.02	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.072
156	6.30	6.20	41.22731	6.0	0.07197	0.02	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.072
157	6.20	6.10	41.30935	5.9	0.07211	0.02	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.072
158	6.10	6.00	41.39138	5.9	0.07225	0.02	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.072
159	6.00	5.90	41.47342	5.9	0.07239	0.02	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.072
TOT						0.15			515592.00	237600.00					
AVG					0.07182		2.17	264.00			572.88				
CUM						3.38									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da
151	6.700	7.68	0.91	0.08	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
152	6.600	7.68	0.91	0.08	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
153	6.500	7.68	0.92	0.08	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
154	6.400	7.68	0.92	0.08	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
155	6.300	7.68	0.92	0.08	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
156	6.200	7.68	0.92	0.08	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
157	6.100	7.68	0.92	0.08	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
158	6.000	7.68	0.92	0.08	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
159	5.900	7.68	0.92	0.08	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.16
AVG	20 DEG C RATE		0.78	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
151	6.700	28.84	0.70	344.20	1337.97	6.57	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.21
152	6.600	28.84	0.70	344.04	1337.57	6.56	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.21
153	6.500	28.84	0.70	343.88	1337.15	6.55	5.67	0.00	5.67	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.21
154	6.400	28.84	0.70	343.70	1336.67	6.54	5.66	0.00	5.66	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.20
155	6.300	28.84	0.70	343.51	1336.10	6.53	5.65	0.00	5.65	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.20
156	6.200	28.84	0.70	343.28	1335.39	6.53	5.64	0.00	5.64	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.20
157	6.100	28.84	0.70	343.00	1334.41	6.52	5.64	0.00	5.64	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.20
158	6.000	28.84	0.70	342.61	1332.97	6.52	5.63	0.00	5.63	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.20
159	5.900	28.84	0.70	342.05	1330.75	6.52	5.63	0.00	5.63	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.21

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
160	UPR RCH	41.47342	28.84	0.70	342.05	1330.75	6.52	5.63	0.00	5.63	0.00	0.00	0.00	0.00	0.00	4.50	0.00	1.21
EACH	INCR	0.08204	0.00	0.00	120.00	500.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	
163	WSTLD	11.36000	27.88	0.71	346.00	1341.00	6.25	6.50	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
160	5.90	5.80	41.55545	5.9	0.01994	0.06	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.020
161	5.80	5.70	41.63749	5.9	0.01998	0.06	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.020
162	5.70	5.60	41.71952	5.9	0.02002	0.06	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.020
163	5.60	5.50	53.16156	26.0	0.02551	0.05	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.026
164	5.50	5.40	53.24359	25.9	0.02555	0.05	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.026
165	5.40	5.30	53.32563	25.9	0.02558	0.05	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.026
166	5.30	5.20	53.40766	25.9	0.02562	0.05	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.026
167	5.20	5.10	53.48970	25.8	0.02566	0.05	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.026
168	5.10	5.00	53.57173	25.8	0.02570	0.05	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.026
169	5.00	4.90	53.65377	25.7	0.02574	0.04	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.026
170	4.90	4.80	53.73580	25.7	0.02578	0.04	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.026
171	4.80	4.70	53.81784	25.7	0.02582	0.04	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.026
172	4.70	4.60	53.89987	25.6	0.02586	0.04	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.026
173	4.60	4.50	53.98191	25.6	0.02590	0.04	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.026
TOT						0.67			2917964.00	1481200.00					
AVG					0.02422		1.97	1058.00			2084.26				
CUM						4.05									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da
NCM SETT 1/da																						
160	5.800	7.68	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.16
0.00 161	5.700	7.67	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.16
0.00 162	5.600	7.67	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.16
0.00 163	5.500	7.67	0.62	0.08	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.17
0.00 164	5.400	7.66	0.62	0.08	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.17
0.00 165	5.300	7.66	0.62	0.08	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.17
0.00 166	5.200	7.65	0.62	0.08	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.17
0.00 167	5.100	7.65	0.62	0.08	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.17
0.00 168	5.000	7.65	0.62	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.17
0.00 169	4.900	7.64	0.62	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.17
0.00 170	4.800	7.64	0.62	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.17
0.00 171	4.700	7.63	0.62	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.17

172	4.600	7.63	0.62	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.17	0.00
173	4.500	7.63	0.62	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.17	0.00
AVG 20 DEG C RATE			0.51	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
160	5.800	28.87	0.70	341.67	1329.21	6.52	5.63	0.00	5.63	0.00	0.00	0.00	0.00	0.00	0.00	4.45	0.00	0.	1.22
161	5.700	28.90	0.70	341.45	1328.24	6.52	5.64	0.00	5.64	0.00	0.00	0.00	0.00	0.00	0.00	4.39	0.00	0.	1.22
162	5.600	28.93	0.69	341.26	1327.41	6.52	5.65	0.00	5.65	0.00	0.00	0.00	0.00	0.00	0.00	4.34	0.00	0.	1.23
163	5.500	28.97	0.69	341.13	1326.74	6.52	5.67	0.00	5.67	0.00	0.00	0.00	0.00	0.00	0.00	4.29	0.00	0.	1.23
164	5.400	29.00	0.69	340.80	1325.48	6.52	5.65	0.00	5.65	0.00	0.00	0.00	0.00	0.00	0.00	4.23	0.00	0.	1.23
165	5.300	29.03	0.69	340.46	1324.22	6.53	5.63	0.00	5.63	0.00	0.00	0.00	0.00	0.00	0.00	4.18	0.00	0.	1.24
166	5.200	29.06	0.69	340.12	1322.97	6.54	5.62	0.00	5.62	0.00	0.00	0.00	0.00	0.00	0.00	4.12	0.00	0.	1.24
167	5.100	29.09	0.68	339.79	1321.72	6.54	5.60	0.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	4.07	0.00	0.	1.24
168	5.000	29.12	0.68	339.46	1320.47	6.55	5.59	0.00	5.59	0.00	0.00	0.00	0.00	0.00	0.00	4.02	0.00	0.	1.24
169	4.900	29.15	0.68	339.12	1319.23	6.56	5.58	0.00	5.58	0.00	0.00	0.00	0.00	0.00	0.00	3.96	0.00	0.	1.24
170	4.800	29.19	0.68	338.79	1317.99	6.56	5.57	0.00	5.57	0.00	0.00	0.00	0.00	0.00	0.00	3.91	0.00	0.	1.25
171	4.700	29.22	0.67	338.46	1316.76	6.57	5.56	0.00	5.56	0.00	0.00	0.00	0.00	0.00	0.00	3.86	0.00	0.	1.25
172	4.600	29.25	0.67	338.13	1315.52	6.57	5.56	0.00	5.56	0.00	0.00	0.00	0.00	0.00	0.00	3.80	0.00	0.	1.25
173	4.500	29.28	0.67	337.80	1314.29	6.58	5.56	0.00	5.56	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.25

FINAL REPORT
REACH NO. 11 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
174	UPR RCH	53.98191	29.28	0.67	337.80	1314.29	6.58	5.56	0.00	5.56	0.00	0.00	0.00	0.00	0.00	3.75	0.00	1.25
EACH	INCR	0.08203	0.00	0.00	120.00	500.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
174	4.50	4.40	54.06394	25.6	0.02510	0.05	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.025
175	4.40	4.30	54.14598	25.5	0.02513	0.05	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.025
176	4.30	4.20	54.22801	25.5	0.02517	0.05	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.025
177	4.20	4.10	54.31005	25.4	0.02521	0.05	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.025
178	4.10	4.00	54.39208	25.4	0.02525	0.05	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.025
179	4.00	3.90	54.47412	25.4	0.02529	0.05	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.025
180	3.90	3.80	54.55615	25.3	0.02533	0.05	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.025
181	3.80	3.70	54.63819	25.3	0.02536	0.05	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.025
182	3.70	3.60	54.72022	25.2	0.02540	0.05	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.025
TOT						0.41			1938816.00	1101600.00					
AVG					0.02525		1.76	1224.00			2154.24				
CUM						4.46									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da
174	4.400	7.63	0.69	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.17
175	4.300	7.63	0.69	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.17
176	4.200	7.63	0.69	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.17
177	4.100	7.63	0.69	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.17
178	4.000	7.63	0.69	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.17
179	3.900	7.63	0.69	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.17
180	3.800	7.63	0.69	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.17
181	3.700	7.63	0.69	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.17
182	3.600	7.63	0.69	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.17
AVG	20 DEG C RATE		0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
174	4.400	29.28	0.67	337.48	1313.08	6.58	5.56	0.00	5.56	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.26
175	4.300	29.28	0.67	337.16	1311.90	6.59	5.57	0.00	5.57	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.26
176	4.200	29.28	0.67	336.85	1310.73	6.59	5.57	0.00	5.57	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.26
177	4.100	29.28	0.67	336.54	1309.57	6.60	5.58	0.00	5.58	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.26
178	4.000	29.28	0.67	336.24	1308.43	6.60	5.59	0.00	5.59	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.27
179	3.900	29.28	0.67	335.94	1307.31	6.61	5.59	0.00	5.59	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.27
180	3.800	29.28	0.67	335.64	1306.22	6.61	5.60	0.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.27
181	3.700	29.28	0.67	335.36	1305.16	6.62	5.60	0.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.27
182	3.600	29.28	0.67	335.09	1304.13	6.62	5.60	0.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.27

FINAL REPORT
REACH NO. 12 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
183	UPR RCH	54.72022	29.28	0.67	335.09	1304.13	6.62	5.60	0.00	5.60	0.00	0.00	0.00	0.00	0.00	3.75	0.00	1.27
EACH	INCR	0.08204	0.00	0.00	120.00	500.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
183	3.60	3.50	54.80226	25.2	0.02998	0.04	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.030
184	3.50	3.40	54.88430	25.2	0.03002	0.04	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.030
185	3.40	3.30	54.96634	25.1	0.03007	0.04	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.030
186	3.30	3.20	55.04838	25.1	0.03011	0.04	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.030
187	3.20	3.10	55.13042	25.1	0.03016	0.04	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.030
188	3.10	3.00	55.21246	25.0	0.03020	0.04	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.030
189	3.00	2.90	55.29449	25.0	0.03025	0.04	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.030
190	2.90	2.80	55.37653	24.9	0.03029	0.04	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.030
TOT						0.31			1462480.00	808000.00					
AVG					0.03013		1.81	1010.00			1828.10				
CUM						4.77									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da
183	3.500	7.62	0.72	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.17
184	3.400	7.61	0.72	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.17
185	3.300	7.60	0.72	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.17
186	3.200	7.60	0.72	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.17
187	3.100	7.59	0.72	0.08	0.00	0.00	0.00	0.00	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.17
188	3.000	7.58	0.72	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.17
189	2.900	7.58	0.72	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.17
190	2.800	7.57	0.73	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
AVG	20 DEG C	RATE	0.60	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
183	3.500	29.33	0.67	334.80	1303.07	6.62	5.61	0.00	5.61	0.00	0.00	0.00	0.00	0.00	0.00	3.66	0.00	0.	1.28
184	3.400	29.39	0.67	334.50	1301.96	6.63	5.62	0.00	5.62	0.00	0.00	0.00	0.00	0.00	0.00	3.56	0.00	0.	1.28
185	3.300	29.44	0.66	334.21	1300.87	6.63	5.62	0.00	5.62	0.00	0.00	0.00	0.00	0.00	0.00	3.47	0.00	0.	1.28
186	3.200	29.49	0.66	333.93	1299.82	6.63	5.62	0.00	5.62	0.00	0.00	0.00	0.00	0.00	0.00	3.38	0.00	0.	1.28
187	3.100	29.55	0.66	333.66	1298.81	6.63	5.63	0.00	5.63	0.00	0.00	0.00	0.00	0.00	0.00	3.28	0.00	0.	1.28
188	3.000	29.60	0.65	333.41	1297.86	6.63	5.63	0.00	5.63	0.00	0.00	0.00	0.00	0.00	0.00	3.19	0.00	0.	1.28
189	2.900	29.66	0.65	333.17	1296.97	6.64	5.64	0.00	5.64	0.00	0.00	0.00	0.00	0.00	0.00	3.09	0.00	0.	1.28
190	2.800	29.71	0.65	332.96	1296.18	6.64	5.64	0.00	5.64	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.28

FINAL REPORT
REACH NO. 13 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
191	UPR RCH	55.37653	29.71	0.65	332.96	1296.18	6.64	5.64	0.00	5.64	0.00	0.00	0.00	0.00	0.00	3.00	0.00	1.28
EACH	INCR	0.08203	0.00	0.00	120.00	500.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
191	2.80	2.70	55.45856	24.9	0.05996	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.060
192	2.70	2.60	55.54060	24.9	0.06004	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.060
193	2.60	2.50	55.62263	24.8	0.06013	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.060
194	2.50	2.40	55.70466	24.8	0.06022	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.060
195	2.40	2.30	55.78669	24.8	0.06031	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.060
196	2.30	2.20	55.86872	24.7	0.06040	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.060
197	2.20	2.10	55.95075	24.7	0.06049	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.060
198	2.10	2.00	56.03278	24.7	0.06058	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.061
199	2.00	1.90	56.11481	24.6	0.06066	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.061
200	1.90	1.80	56.19685	24.6	0.06075	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.061
201	1.80	1.70	56.27888	24.5	0.06084	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.061
202	1.70	1.60	56.36091	24.5	0.06093	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.061
203	1.60	1.50	56.44294	24.5	0.06102	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.061
204	1.50	1.40	56.52497	24.4	0.06111	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.061
205	1.40	1.30	56.60700	24.4	0.06120	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.061
206	1.30	1.20	56.68903	24.4	0.06129	0.02	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.061
TOT						0.31			1480000.00	800000.00					
AVG					0.06062		1.85	500.00			925.00				
CUM						5.08									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da
191	2.700	7.57	0.98	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0100	2.600	7.57	0.98	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0100	2.500	7.57	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0100	2.400	7.57	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0100	2.300	7.57	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0100	2.200	7.57	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0100	2.100	7.57	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0100	2.000	7.57	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0100	1.900	7.57	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0200	1.800	7.57	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0200	1.700	7.57	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0200	1.600	7.57	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0200	1.500	7.57	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0200	1.400	7.57	0.99	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0205	1.300	7.57	1.00	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0206	1.200	7.57	1.00	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
0.00																						
AVG	20 DEG C RATE		0.83	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09
0.00																						

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
191	2.700	29.71	0.65	332.72	1295.28	6.64	5.64	0.00	5.64	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.28
192	2.600	29.71	0.65	332.41	1294.11	6.65	5.64	0.00	5.64	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.28
193	2.500	29.71	0.65	332.10	1292.95	6.65	5.65	0.00	5.65	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.28
194	2.400	29.71	0.65	331.78	1291.79	6.66	5.65	0.00	5.65	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
195	2.300	29.71	0.65	331.48	1290.63	6.66	5.65	0.00	5.65	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
196	2.200	29.71	0.65	331.17	1289.48	6.66	5.66	0.00	5.66	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
197	2.100	29.71	0.65	330.86	1288.33	6.67	5.66	0.00	5.66	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
198	2.000	29.71	0.65	330.55	1287.19	6.67	5.66	0.00	5.66	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
199	1.900	29.71	0.65	330.25	1286.05	6.67	5.66	0.00	5.66	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
200	1.800	29.71	0.65	329.95	1284.93	6.68	5.67	0.00	5.67	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
201	1.700	29.71	0.65	329.65	1283.82	6.68	5.67	0.00	5.67	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
202	1.600	29.71	0.65	329.36	1282.73	6.69	5.67	0.00	5.67	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
203	1.500	29.71	0.65	329.08	1281.67	6.69	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
204	1.400	29.71	0.65	328.81	1280.66	6.69	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
205	1.300	29.71	0.65	328.56	1279.72	6.70	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
206	1.200	29.71	0.65	328.34	1278.90	6.70	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29

FINAL REPORT
REACH NO. 14 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
207	UPR RCH	56.68903	29.71	0.65	328.34	1278.90	6.70	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	3.00	0.00	1.29
EACH	INCR	0.08203	0.00	0.00	120.00	500.00	6.00	5.00	0.00			0.00	0.00	0.00	0.00	0.00	1.00	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
207	1.20	1.10	56.77107	24.3	0.14407	0.01	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.144
208	1.10	1.00	56.85310	24.3	0.14428	0.01	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.144
209	1.00	0.90	56.93514	24.3	0.14449	0.01	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.144
210	0.90	0.80	57.01717	24.2	0.14470	0.01	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.145
211	0.80	0.70	57.09921	24.2	0.14490	0.01	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.145
212	0.70	0.60	57.18124	24.2	0.14511	0.01	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.145
213	0.60	0.50	57.26328	24.1	0.14532	0.01	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.145
214	0.50	0.40	57.34531	24.1	0.14553	0.01	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.146
215	0.40	0.30	57.42735	24.1	0.14574	0.01	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.146
216	0.30	0.20	57.50938	24.0	0.14594	0.01	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.146
217	0.20	0.10	57.59142	24.0	0.14615	0.01	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.146
218	0.10	0.00	57.67345	24.0	0.14636	0.01	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.146
TOT						0.10			472860.00	255600.00					

AVG			0.14521			1.85	213.00									394.05						
CUM						5.17																

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da
207	1.100	7.57	1.76	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
208	1.000	7.57	1.76	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
209	0.900	7.57	1.76	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
210	0.800	7.57	1.77	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
211	0.700	7.57	1.77	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
212	0.600	7.57	1.77	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
213	0.500	7.57	1.77	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
214	0.400	7.57	1.77	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
215	0.300	7.57	1.78	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
216	0.200	7.57	1.78	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
217	0.100	7.57	1.78	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
218	0.000	7.57	1.78	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.17
AVG	20 DEG C RATE		1.48	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
207	1.100	29.71	0.65	328.10	1278.02	6.70	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
208	1.000	29.71	0.65	327.80	1276.90	6.71	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
209	0.900	29.71	0.65	327.50	1275.77	6.72	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
210	0.800	29.71	0.65	327.20	1274.65	6.72	5.69	0.00	5.69	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
211	0.700	29.71	0.65	326.89	1273.50	6.73	5.69	0.00	5.69	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
212	0.600	29.71	0.64	326.58	1272.31	6.73	5.69	0.00	5.69	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
213	0.500	29.71	0.64	326.23	1270.99	6.74	5.69	0.00	5.69	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
214	0.400	29.71	0.64	325.81	1269.38	6.75	5.69	0.00	5.69	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
215	0.300	29.71	0.64	325.20	1267.02	6.76	5.69	0.00	5.69	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.29
216	0.200	29.71	0.64	324.13	1262.82	6.78	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.30
217	0.100	29.71	0.64	321.93	1254.10	6.81	5.67	0.00	5.67	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.32
218	0.000	29.71	0.64	316.94	1234.21	6.90	5.63	0.00	5.63	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.36

STREAM SUMMARY

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

TRAVEL TIME = 5.17 DAYS

MAXIMUM EFFLUENT = 25.99 PERCENT

FLOW = 37.61783 TO 57.67345 m³/s
DISPERSION = 10.0000 TO 10.0000 m²/s

VELOCITY	=	0.01994	TO	0.14636	m/s
DEPTH	=	1.76	TO	2.50	m
WIDTH	=	180.00	TO	******	m
BOD DECAY	=	0.07	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.34	TO	5.69	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.56	TO	1.78	per day
BOD SETTLING	=	0.00	TO	0.00	per day
ORG-N DECAY	=	0.00	TO	0.00	per day
ORG-N SETTLING	=	0.00	TO	0.00	per day
TEMPERATURE	=	28.41	TO	29.71	deg C
DISSOLVED OXYGEN	=	4.58	TO	6.90	mg/L

LA-QUAL model for Bayou Des Allemands (020301)
DO calibration

INPUT/OUTPUT LOADING SUMMARY

	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER INFLOW	42.000	19305.2	16547.3	0.0	0.0	0.0	0.0	0.0	0.0	3120.8
INCREMENTAL INFLOW	17.883	9270.7	7725.6	0.0	0.0	0.0	0.0	0.0	0.0	1545.1
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	14.670	6923.7	8890.7	0.0	0.0	0.0	0.0	0.0	0.0	1713.1
WITHDRAWLS	-16.880	-8729.1	-8256.5	0.0	0.0	0.0	0.0	0.0	0.0	-1822.6
OUTFLOW THRU LOWER BNDRY	-57.673	-34373.2	-28072.4	0.0	0.0	0.0	0.0	0.0	0.0	-6800.5
DISPERSION THRU LOWER BNDRY		693.8	-297.3	0.0	0.0	0.0	0.0	0.0	0.0	376.2
NON-POINT INPUT		0.0	12007.0	0.0	0.0					5969.0
NATURAL REAERATION		26128.4								
DAM REAERATION		0.0								
BACKGROUND SOD		-16602.9								
BOD#1 DECAY		-8544.5	-8544.5							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY			0.0							
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY				0.0						
ORG-N DECAY		0.0			0.0	0.0				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		0.0				0.0	0.0			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		10028.9				0.0	0.0	0.0	0.0	
ALGAE RESPIRATION		0.0				0.0		0.0	0.0	
ALGAE SETTLING		0.0							0.0	
MACRO PHOTOSYNTHESIS		0.0				0.0	0.0	0.0		
NCM DECAY		-4101.1								-4101.1
NCM SETTLING		0.0								0.0
TOTAL INPUTS	74.553	72350.7	45170.6	0.0	0.0	0.0	0.0	0.0	0.0	12724.2
TOTAL OUTPUTS	-74.553	-72350.7	-45170.7	0.0	0.0	0.0	0.0	0.0	0.0	-12724.2
NET CONVERGENCE ERROR	0.000	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

.....EXECUTION COMPLETED

APPENDIX K

90th Percentile Calculation

Temperature Data for Bayou des Allemands at Des Allemands, LA (LDEQ station 0292, Seg 020201)
Data retreived from LDEQ website (http://www.deq.state.la.us/surveillance/wqdata/wqnsites.stm)

summer 90th percentile 30.80
winter 90th percentile 21.68 interpolated

DATE	WATER TEMP (C)	Season	Percentile
10/11/94	21.30	summer	1.79
10/15/96	21.70	summer	5.36
10/13/92	22.10	summer	8.93
10/10/95	22.40	summer	12.50
10/15/91	23.50	summer	16.07
10/12/93	23.70	summer	19.64
10/14/97	24.10	summer	23.21
10/31/00	24.62	summer	26.79
6/11/91	26.20	summer	30.36
10/3/00	26.21	summer	33.93
6/14/94	26.60	summer	37.50
5/9/00	27.28	summer	41.07
6/10/97	27.50	summer	44.64
8/13/96	27.90	summer	48.21
6/11/96	28.00	summer	51.79
9/12/00	28.59	summer	55.36
6/13/95	28.60	summer	58.93
6/13/00	29.16	summer	62.50
8/13/91	29.20	summer	66.07
8/15/95	29.90	summer	69.64
8/9/94	30.02	summer	73.21
8/10/93	30.30	summer	76.79
8/11/92	30.40	summer	80.36
6/16/92	30.40	summer	83.93
8/12/97	30.80	summer	87.50
6/15/93	30.80	summer	91.07
8/8/00	31.07	summer	94.64
7/11/00	32.09	summer	98.21

DATE	WATER TEMP (C)	Season	Percentile
12/12/95	10.40	winter	1.85
12/5/00	12.10	winter	5.56
2/11/92	12.20	winter	9.26
2/8/00	12.51	winter	12.96
2/10/98	12.80	winter	16.67
2/13/96	13.00	winter	20.37
2/18/97	13.40	winter	24.07
2/14/95	13.40	winter	27.78
12/9/97	13.97	winter	31.48
12/13/94	14.00	winter	35.19
12/14/93	14.00	winter	38.89
12/10/96	15.10	winter	42.59
12/15/92	15.10	winter	46.30
4/15/97	15.70	winter	50.00
2/5/91	15.70	winter	53.70
12/10/91	15.80	winter	57.41
1/11/00	16.45	winter	61.11
4/7/92	17.70	winter	64.81
2/8/94	17.80	winter	68.52
3/14/00	18.42	winter	72.22
4/9/96	18.50	winter	75.93
4/11/00	19.64	winter	79.63
4/13/93	21.50	winter	83.33
4/4/95	21.60	winter	87.04
4/14/98	21.70	winter	90.74
4/12/94	24.20	winter	94.44
4/16/91	24.40	winter	98.15

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APPENDIX L

Model Inputs for Projections

BAYOU DES ALLEMANDS MODEL INPUTS FOR SUMMER NO LOAD PROJECTION

Table L.1 Summer No Load Inputs for Program Constants and Initial Conditions (Data Types 3 and 11).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
K_L (surface transfer coefficient)	all	0.93 m/day	Calculated based on long term wind speed data from New Orleans International airport for August (see Appendix M)
Temperature (deg C)	all	30.8	90th percentile temperature based on LDEQ station 0292

Table L.2. Summer No Load Inputs for NPS Loads (Data Types 12 and 19).

Reach	SOD ($g/m^2/day$)	CBODu mass load (kg/day)	NBODu mass load (kg/day)	Data Source / Comment
1	1.56	359	180	These values were set equal to the natural (no man made) loads calculated by TMDL spreadsheet.
2	1.22	569	285	
3	0.04	918	459	
4	0.06	345	172	
5	0.20	750	5	
6	0.20	500	6	
7	0.50	4	4	
8	1.50	3	3	
9	1.50	2	2	
10	0.20	15	741	
11	0.20	1102	551	
12	0.20	889	404	
13	0.20	960	400	
14	0.20	332	128	

Table L.3. Summer No Load Inputs for Headwater (Data Types 20, 21, and 22).

Headwater	Parameter name or description	Value used in model	Data Source / Comment
Lake Salvador	Flow	26.8 m^3/sec	1/3 of tidal flow (see section 5.2.4 and Appendix N)
	Temperature (°C)	30.8	90th percentile temperature based on LDEQ station 0292
	DO	5.32 mg/L	same as calibration (more conservative than 90% saturation)
	CBODu	4.56 mg/L	same as calibration (no reductions of pollutants were assumed for Lake Salvador)
	NBODu	0.86 mg/L	

Table L.4. Summer No Load Inputs for Wasteloads (Data Types 24, 25, and 26).

Wasteload	Parameter name	Value used in model	Data Source / Comment
Bayou Gauche (SE end)	Flow rate	-6.164 m^3/sec	23% of headwater flow (see section 5.2.5)
	DO	0	Water quality information not used by model for outflows
	CBODu	0	
	NBODu	0	
Bayou Gauche (NW end)	Flow rate	6.164 m^3/sec	23% of headwater flow (same as other end of Bayou Gauche)
	DO	6.25 mg/L	Estimated daily average DO at BG-2 using continuous monitoring DO data from BDA-5a
	CBODu	6.50 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	1.32 mg/L	

Table L.5. Summer No Load Inputs for Lower Boundary Conditions (Data Type 27).

Parameter	Value used in model	Data Source / Comment
Temperature	30.8°C	90th percentile temperature based on LDEQ 0292
Salinity	0.64 ppt	Same as calibration
Chloride	311 mg/L	Same as calibration
Conductivity	1210.5 µmhos	Same as calibration
DO	6.71 mg/L	90% saturation at 90th percentile temperature
CBODu	5.59 mg/L	Same as calibration
Chlorophyll a	3.0 µg/L	Same as calibration
NBODu	1.42 mg/L	Same as calibration

BAYOU DES ALLEMANDS MODEL INPUTS FOR WINTER NO LOAD PROJECTION

Table L.6. Winter No Load Inputs for Program Constants and Initial Conditions (Data Types 3 and 11).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
K_L (surface transfer coefficient)	all	1.17 m/day	Calculated based on long term wind speed data from New Orleans International airport for November (see Appendix M)
Temperature (deg C)	all	21.68	90th percentile temperature based on LDEQ station 0292

Table L.7. Winter No Load Inputs for NPS Loads (Data Types 12 and 19).

Reach	SOD ($g/m^2/day$)	CBODu mass load (kg/day)	NBODu mass load (kg/day)	Data Source / Comment
1	1.56	359	180	These values were set equal to the natural (no man made) loads calculated by TMDL spreadsheet.
2	1.22	569	285	
3	0.04	918	459	
4	0.06	345	172	
5	0.20	750	5	
6	0.20	500	6	
7	0.50	4	4	
8	1.50	3	3	
9	1.50	2	2	
10	0.20	15	741	
11	0.20	1102	551	
12	0.20	889	404	
13	0.20	960	400	
14	0.20	332	128	

Table L.8. Winter No Load Inputs for Headwater (Data Types 20, 21, and 22).

Headwater	Parameter name or description	Value used in model	Data Source / Comment
Lake Salvador	Flow	26.8 m^3/sec	1/3 of tidal flow (see section 5.2.4 and Appendix N)
	Temperature (°C)	21.68	90th percentile temperature based on LDEQ station 0292
	DO	6.28 mg/L	same as % saturation as in summer projection
	CBODu	4.56 mg/L	same as calibration (no reductions of pollutants were assumed for Lake Salvador)
	NBODu	0.86 mg/L	

Table L.9. Winter No Load Inputs for Wasteloads (Data Types 24, 25, and 26).

Wasteload	Parameter name	Value used in model	Data Source / Comment
Bayou Gauche (SE end)	Flow rate	-6.164 m^3/sec	23% of headwater flow (see section 5.2.5)
	DO	0	Water quality information not used by model for outflows
	CBODu	0	
	NBODu	0	
Bayou Gauche (NW end)	Flow rate	6.164 m^3/sec	23% of headwater flow (same as other end of Bayou Gauche)
	DO	6.25 mg/L	Estimated daily average DO at BG-2 using continuous monitoring DO data from BDA-5a
	CBODu	6.50 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	1.32 mg/L	

Table L.10. Winter No Load Inputs for Lower Boundary Conditions (Data Type 27).

Parameter	Value used in model	Data Source / Comment
Temperature	21.68°C	90th percentile temperature based on LDEQ 0292
Salinity	0.64 ppt	Same as calibration
Chloride	311 mg/L	Same as calibration
Conductivity	1210.5 µmhos	Same as calibration
DO	7.00 mg/L	90% saturation at 90th percentile temperature
CBODu	5.59 mg/L	Same as calibration
Chlorophyll a	3.0 µg/L	Same as calibration
NBODu	1.42 mg/L	Same as calibration

BAYOU DES ALLEMANDS MODEL INPUTS FOR SUMMER PROJECTION

Table L.11 Summer Projection Inputs for Program Constants and Initial Conditions (Data Types 3 and 11).

Parameter name or description	**Reach(es)**	**Value used in model**	**Data Source / Comment**
K_L (surface transfer coefficient)	all	0.93 m/day	Calculated based on long term wind speed data from New Orleans International airport for August (see Appendix M)
Temperature (deg C)	all	30.8	90th percentile temperature based on LDEQ station 0292

Table L.12. Summer Projection Inputs for NPS Loads (Data Types 12 and 19).

Reach	**SOD ($g/m^2/day$)**	**CBODu mass load (kg/day)**	**NBODu mass load (kg/day)**	**Data Source / Comment**
1	1.85	427	214	These values were adjusted until a minimum DO of 5 mg/L was achieved for Bayou des Allemands.
2	1.53	715	357	
3	0.07	1496	748	
4	0.09	473	237	
5	0.20	750	5	
6	0.20	500	6	
7	0.50	4	4	
8	1.50	3	3	
9	1.50	2	2	
10	0.20	15	741	
11	0.20	1102	551	
12	0.20	889	404	
13	0.20	960	400	
14	0.20	332	128	

Table L.13. Summer Projections for Headwater (Data Types 20, 21, and 22).

Headwater	Parameter name or description	Value used in model	Data Source / Comment
Lake Salvador	Flow	26.8 m^3/sec	1/3 of tidal flow (see section 5.2.4 and Appendix N)
	Temperature (°C)	30.8	90th percentile temperature based on LDEQ station 0292
	DO	5.32 mg/L	same as calibration (more conservative than 90% saturation)
	CBODu	4.56 mg/L	same as calibration (no reductions of pollutants were assumed for Lake Salvador)
	NBODu	0.86 mg/L	

Table L.14. Summer Projection Inputs for Wasteloads (Data Types 24, 25, and 26).

Wasteload	Parameter name	Value used in model	Data Source / Comment
Bayou Gauche (SE end)	Flow rate	-6.164 m^3/sec	23% of headwater flow (see section 5.2.5)
	DO	0	Water quality information not used by model for outflows
	CBODu	0	
	NBODu	0	
Bayou Gauche (NW end)	Flow rate	6.164 m^3/sec	23% of headwater flow (same as other end of Bayou Gauche)
	DO	6.25 mg/L	Estimated daily average DO at BG-2 using continuous monitoring DO data from BDA-5a
	CBODu	6.50 mg/L	Calculated from LDEQ spreadsheet with man-made loads reduced by 86%
	NBODu	1.32 mg/L	

Table L.15. Summer Projection Inputs for Lower Boundary Conditions (Data Type 27).

Parameter	Value used in model	Data Source / Comment
Temperature	30.8°C	90th percentile temperature based on LDEQ 0292
Salinity	0.64 ppt	Same as calibration
Chloride	311 mg/L	Same as calibration
Conductivity	1210.5 µmhos	Same as calibration
DO	6.71 mg/L	90% saturation at 90th percentile temperature
CBODu	5.59 mg/L	Same as calibration
Chlorophyll a	3.0 µg/L	Same as calibration
NBODu	1.42 mg/L	Same as calibration

BAYOU DES ALLEMANDS MODEL INPUTS FOR WINTER PROJECTION

Table L.16 Winter Projection Inputs for Program Constants and Initial Conditions (Data Types 3 and 11).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
K_L (surface transfer coefficient)	all	1.17 m/day	Calculated based on long term wind speed data from New Orleans International airport for November (see Appendix M)
Temperature (deg C)	all	21.68	90th percentile temperature based on LDEQ station 0292

Table L.17. Winter Projection Inputs for NPS Loads (Data Types 12 and 19).

Reach	SOD ($g/m^2/day$)	CBODu mass load (kg/day)	NBODu mass load (kg/day)	Data Source / Comment
1	3.67	848	424	These values were adjusted until a minimum DO of 5 mg/L was achieved for Bayou des Allemands.
2	3.45	1608	804	
3	0.24	5045	2523	
4	0.23	1264	632	
5	0.20	750	5	
6	0.20	500	6	
7	0.50	4	4	
8	1.50	3	3	
9	1.50	2	2	
10	0.20	15	741	
11	0.20	1102	551	
12	0.20	889	404	
13	0.20	960	400	
14	0.20	332	128	

Table L.18. Winter No Load Inputs for Headwater (Data Types 20, 21, and 22).

Headwater	Parameter name or description	Value used in model	Data Source / Comment
Lake Salvador	Flow	26.8 m^3/sec	1/3 of tidal flow (see section 5.2.4 and Appendix N)
	Temperature (°C)	21.68	90th percentile temperature based on LDEQ station 0292
	DO	6.28 mg/L	same % saturation as in summer projection
	CBODu	4.56 mg/L	same as calibration (no reductions of pollutants were assumed for Lake Salvador)
	NBODu	0.86 mg/L	

Table L.19. Winter Projection Inputs for Wasteloads (Data Types 24, 25, and 26).

Wasteload	Parameter name	Value used in model	Data Source / Comment
Bayou Gauche (SE end)	Flow rate	-6.164 m^3/sec	23% of headwater flow (see section 5.2.5)
	DO	0 mg/L	Model ignores WQ parameters on outflows.
	CBODu	0 mg/L	
	NBODu	0 mg/L	
Bayou Gauche (NW end)	Flow rate	6.164 m^3/sec	23% of headwater flow (same as other end of Bayou Gauche)
	DO	6.25 mg/L	Estimated daily average DO at BG-2 using continuous monitoring DO data from BDA-5a
	CBODu	6.50 mg/L	Calculated from LDEQ TMDL spreadsheet with man-made loads reduced by 0%
	NBODu	1.32 mg/L	

Table L.20. Winter Projection Inputs for Lower Boundary Conditions (Data Type 27).

Parameter	Value used in model	Data Source / Comment
Temperature	21.68°C	90th percentile temperature based on LDEQ 0292
Salinity	0.64 ppt	Same as calibration
Chloride	311 mg/L	Same as calibration
Conductivity	1210.5 µmhos	Same as calibration
DO	7.00 mg/L	90% saturation at 90th percentile temperature
CBODu	5.59 mg/L	Same as calibration
Chlorophyll a	3.0 µg/L	Same as calibration
NBODu	1.42 mg/L	Same as calibration

APPENDIX M

Wind Aided Reareeation Calculations

Wind Aided Reaeration for Bayou des Allemands Summer Projection

Wind Aided Reaeration Coefficient Equation (Eq.3-23 from Rates, Constants, and Kinetics publication)

$K_{L\ with\ wind} = K_{L\ without\ wind}\ [1+(0.2395V_w^{1.643})]$ **Equation 1**

V_w = wind velocity in meters per second
K_2 = reaeration in 1/day that does not account for wind effects. For Louisiana equation use K_2 = 0.664/D.
D = depth in meters
$K_L = K_2 * D$ (=oxygen transfer coefficient "a" in model)

Formula to correct wind speed for elevation (obtained from LDEQ):

$V_{w@\ height\ z} = V_{w@\ height\ s}\ [(z/s)^{0.143}]$ **Equation 2**

CALCULATIONS FOR SUMMER PROJECTION:

Long term average wind speed for August = 5.9 mph
= 5.1 knots

August was month with lowest average wind speed for summer months (May-Oct)

Source of long term average wind speed : NOAA (2001)

Station	Average Wind Speed (knots)	Average Wind Speed (m/s)	Height of Wind Measurement (m)	Height for Calculating Wind-Aided K_L (m)	Wind Speed at Surface using Eqn 2 (m/s)	K_L without wind (m/day)	K_L with wind using Eqn 1 (m/day)
New Orleans Intl. Airport	5.1	2.6	10	0.1	1.4	0.664	0.93

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Wind Aided Reaeration for Bayou des Allemands Winter Projection

Wind Aided Reaeration Coefficient Equation (Eq.3-23 from Rates, Constants, and Kinetics publication)

$K_{L\ with\ wind} = K_{L\ without\ wind}\ [1+(0.2395V_w^{1.643})]$ **Equation 1**

V_w = wind velocity in meters per second
K_2 = reaeration in 1/day that does not account for wind effects. For Louisiana equation use K_2 = 0.664/D.
D = depth in meters
$K_L = K_2 * D$ (=oxygen transfer coefficient "a" in model)

Formula to correct wind speed for elevation (obtained from LDEQ):

$V_{w@\ height\ z} = V_{w@\ height\ s}\ [(z/s)^{0.143}]$ **Equation 2**

CALCULATIONS FOR WINTER PROJECTION:

Long term average wind speed for November = 8.7 mph
= 7.6 knots

November was month with lowest average wind speed for winter months (Nov-Apr)

Source of long term average wind speed : NOAA (2001)

Station	Average Wind Speed (knots)	Average Wind Speed (m/s)	Height of Wind Measurement (m)	Height for Calculating Wind-Aided K_L (m)	Wind Speed at Surface using Eqn 2 (m/s)	K_L without wind (m/day)	K_L with wind using Eqn 1 (m/day)
New Orleans Intl. Airport	7.6	3.9	10	0.1	2.0	0.664	1.17

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APPENDIX N

Critical Flow Calculations

CALCULATION OF AVERAGE TIDAL FLOW FOR BAYOU DES ALLEMANDS
Based on LDEQ flow measurements and dye study results in Bayou des Allemands

Source of data	Starting and ending date/times for this averaging period	ADCP flow data			Data for LDEQ dye study results						Absolute value of flow multiplied by length of time (cfs*hrs)
		Measured or estim. flow (cfs)	Avg flow during this this time (cfs)	Elapsed time that flow occurs (hours)	Location of center of mass (meters d/s from injection)	Distance traveled since prev. run (feet)	Elapsed time since prev. run (hours)	Velocity since prev. run (ft/sec)	Cross section area (ft2)	Avg flow since prev. run (cfs)	
Extrapol. ADCP	9/9/02 14:08	-3164	-3164	24.00							75936
Extrapol. ADCP	9/10/02 14:08	-3164									
Extrapol. ADCP	9/10/02 14:08	-3164	-2480	18.79							46608
Interpol. ADCP	9/11/02 08:55	-1796									
Dye injection	9/11/02 08:55				0	-2323	4.13	-0.16	6975	-1091	4502
Dye run 1	9/11/02 13:03				-708						
Dye run 1	9/11/02 13:03				-708	-440	1.01	-0.12	6975	-845	852
Dye run 2	9/11/02 14:03				-842						
Dye run 2	9/11/02 14:03				-842	-576	3.17	-0.05	6975	-352	1116
Dye run 3	9/11/02 17:14				-1018						
Dye run 3	9/11/02 17:14				-1018	32578	20.90	0.43	8314	3600	75237
Dye run 4	9/12/02 14:08				8912						

Sum of flow * time = 204250 cfs*hrs

Total length of time = 72.00 hrs

Time weighted average flow = 2837 cfs

1/3 of average tidal flow = 946 cfs
= 26.8 m3/sec

Flows measured with Acoustic Doppler Current Profiler (ADCP) in
Bayou des Allemands at Hwy 90 for interpolation and extrapolation above:

Date / time	Flow (cfs)
9/10/02 16:13	-3012
9/11/02 10:58	-1647

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APPENDIX O

NPS Load Calculations for No-Load Runs

Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Bayou des Allemands

Shaded cells are input values for calculations.

REACH NUMBER & DESCRIPTION	Calibration Model Reach Length (km)	Calibration Model Average Reach Width (meters)	Calibration Model UCBOD Nonpoint loading (kg/day)	Calibration Model UNBOD Nonpoint loading (kg/day)	Calibration Model UCBOD Nonpoint loading (gm O_2/m^2/day)	Calibration Model UNBOD Nonpoint loading (gm O_2/m^2/day)	Calibration Model SOD (gm O_2/m^2/day)	Calibration Model TOTAL Benthic Load (gm O_2/m^2/day)
	A	**B**	**C**	**D**	**E = C / (A x B)**	**F = D / (A x B)**	**G**	**H = E + F + G**
Reach 1: Bayou des Allemands	3.00	404	750	375	0.619	0.309	3.25	**4.18**
Reach 2: Bayou des Allemands	3.20	342	1400	700	1.279	0.640	3.00	**4.92**
Reach 3: Bayou des Allemands	1.60	440	4220	2110	5.994	2.997	0.20	**9.19**
Reach 4: Bayou des Allemands	1.00	267	1080	540	4.045	2.022	0.20	**6.27**
Reach 5: Bayou des Allemands	1.40	334	750	5	1.604	0.011	0.20	**1.81**
Reach 6: Bayou des Allemands	1.50	398	500	6	0.838	0.010	0.20	**1.05**
Reach 7: Bayou des Allemands	1.70	231	4	4	0.010	0.010	0.5	**0.52**
Reach 8: Bayou des Allemands	1.60	180	3	3	0.010	0.010	1.5	**1.52**
Reach 9: Bayou des Allemands	0.90	264	2	2	0.008	0.008	1.5	**1.52**
Reach 10: Bayou des Allemands	1.40	1058	15	741	0.010	0.500	0.2	**0.71**
Reach 11: Bayou des Allemands	0.90	1224	1102	551	1.000	0.500	0.2	**1.70**
Reach 12: Bayou des Allemands	0.80	1010	889	404	1.100	0.500	0.2	**1.80**
Reach 13: Bayou des Allemands	1.60	500	960	400	1.200	0.500	0.2	**1.90**
Reach 14: Bayou des Allemands	1.20	213	332	128	1.299	0.501	0.2	**2.00**

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Summer Projection, No Man-Made Loading, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body:	Bayou des Allemands

Shaded cells are input values for calculations.

Values to be used in the projection models.

	Calibration Model Values												Projection Model Equivalents				Projected Model Loads				Margin of Safety Loads					
Reach Number and Description	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Total Calb. Benthic Load (TCBL)	Reach Length	Back-ground Benthic Load	Back-ground percentage reduction	Back-ground Benthic Load adjusted for % reduction	Proj. Model Avg. Reach Width	Proj. Temp.	Percentage Reduction of man-made sources	TCBL adjusted for % reduction (Reduced TCBL)	Reduced TCBL adjusted for MOS	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	SOD load @ Proj. temp.	Total Projection Benthic Load **(LA+MOS)**	MOS Total Benthic Load @ 20°C	MOS SOD @ 20°C	Non-Point UCBOD MOS Loads	Non-Point UNBOD MOS Loads	Adjusted SOD MOS @ Proj. temp	Adjusted Total MOS @ Proj. temp
	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	Kilo-meters	gm O_2 / [(m^2)(day)]	%	gm O_2 / [(m^2)(day)]	Meters	(degrees Celcius)	%	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)
	A, (note 1)	**B,** (note 1)	**C,** (note 1)	**D,** (note 1)	**E,** (note 1)	**F1**	**F2**	**F = F1*(1-F2)**	**G**	**I**	**H**	**J,** (note 2)	**K,** (note 3)	**L = (K)(A / D)**	**M = (K)(B / D)**	**N = (K)(C / D)**	**O = (E)(G)(L)**	**P = (E)(G)(M)**	**Q,** (note 4)	**O + P + Q**	**R = (K-J)(E)(G)**	**S = (R)(C/D)**	**T = (R)(A/D)**	**U = (R)(B/D)**	**V,** (note 5)	**T + U + V**
Reach 1: Bayou des Allemands	0.619	0.309	3.25	4.178	3.00	2.00	0%	2.00	404.00	30.80	100.0%	2.00	2.00	0.296	0.148	1.56	359	180	3722	4260.72	0	0	0	0	0	0
Reach 2: Bayou des Allemands	1.279	0.640	3.00	4.919	3.20	2.00	0%	2.00	342.00	30.80	100.0%	2.00	2.00	0.520	0.260	1.22	569	285	2635	3489.21	0	0	0	0	0	0
Reach 3: Bayou des Allemands	5.994	2.997	0.20	9.191	1.60	2.00	0%	2.00	440.00	30.80	100.0%	2.00	2.00	1.304	0.652	0.04	918	459	60	1437.84	0	0	0	0	0	0
Reach 4: Bayou des Allemands	4.045	2.022	0.20	6.267	1.00	2.00	0%	2.00	267.00	30.80	100.0%	2.00	2.00	1.291	0.645	0.06	345	172	34	550.60	0	0	0	0	0	0
Reach 5: Bayou des Allemands	1.604	0.011	0.20	1.815	1.40	2.00	0%	2.00	334.00	30.80	100.0%	1.81	1.81	1.604	0.011	0.20	750	5	185	939.62	0	0	0	0	0	0
Reach 6: Bayou des Allemands	0.838	0.010	0.20	1.048	1.50	2.00	0%	2.00	398.00	30.80	100.0%	1.05	1.05	0.838	0.010	0.20	500	6	236	741.71	0	0	0	0	0	0
Reach 7: Bayou des Allemands	0.010	0.010	0.50	0.520	1.70	2.00	0%	2.00	231.00	30.80	100.0%	0.52	0.52	0.010	0.010	0.50	4	4	388	395.62	0	0	0	0	0	0
Reach 8: Bayou des Allemands	0.010	0.010	1.50	1.521	1.60	2.00	0%	2.00	180.00	30.80	100.0%	1.52	1.52	0.010	0.010	1.50	3	3	853	858.82	0	0	0	0	0	0
Reach 9: Bayou des Allemands	0.008	0.008	1.50	1.517	0.90	2.00	0%	2.00	264.00	30.80	100.0%	1.52	1.52	0.008	0.008	1.50	2	2	704	707.58	0	0	0	0	0	0
Reach 10: Bayou des Allemands	0.010	0.500	0.20	0.710	1.40	2.00	0%	2.00	1058.00	30.80	100.0%	0.71	0.71	0.010	0.500	0.20	15	741	585	1340.82	0	0	0	0	0	0
Reach 11: Bayou des Allemands	1.000	0.500	0.20	1.701	0.90	2.00	0%	2.00	1224.00	30.80	100.0%	1.70	1.70	1.000	0.500	0.20	1102	551	435	2087.94	0	0	0	0	0	0
Reach 12: Bayou des Allemands	1.100	0.500	0.20	1.800	0.80	2.00	0%	2.00	1010.00	30.80	100.0%	1.80	1.80	1.100	0.500	0.20	889	404	319	1612.02	0	0	0	0	0	0
Reach 13: Bayou des Allemands	1.200	0.500	0.20	1.900	1.60	2.00	0%	2.00	500.00	30.80	100.0%	1.90	1.90	1.200	0.500	0.20	960	400	316	1675.86	0	0	0	0	0	0
Reach 14: Bayou des Allemands	1.299	0.501	0.20	2.000	1.20	2.00	0%	2.00	213.00	30.80	100.0%	2.00	2.00	1.299	0.501	0.20	332	128	101	560.92	0	0	0	0	0	0
Sub-Total												22.53					6748	3340	10572	**20659**	0		0	0	0	**0**

Notes: Note 1, Data was calculated in and brought from the Calibration worksheet dataset.

Note 2, **J** = [(1 - **H**) x (**D** - **F**) + **F**]

Note 3, **K** = [(**J** - **F**) / (1 - MOS) + **F**]

Note 4, **Q** = **E** x **G** x **N** x $1.065^{(I-20)}$

Note 5, **V** = **S** x $1.065^{(I-20)}$

Note 6, **AC** = **E** x **G** x **Z** x $1.065^{(I-20)}$

EXPLICIT MARGINS:

MARGIN OF SAFETY (MOS) (%) = [MOG + MOU] =	**20%**

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Summer Projection, No Man-Made Loading, Non-Point Benthic Load Input and TMDL C

Modeled stream or water body:	Bayou des Allemands

Shaded cells are input values for calculations.

Values to be used in the projection models.

	Calibration Model Values											Man-made Model equivalents				Man-made Model loads				Background Model loads			
Reach Number and Description	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Total Calb. Benthic Load (TCBL)	Reach Length	Back-ground Benthic Load	Back-ground percentage reduction	Back-ground Benthic Load adjusted for % reduction	Proj. Model Avg. Reach Width	Proj. Temp.	Percentage Reduction of man-made sources	Manmade portion of TCBL	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	SOD load @ Proj. temp.	Man-made Total Projection Benthic Load	Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	SOD load @ Proj. temp.	Man-made Total Projection Benthic Load
	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	Kilo-meters	gm O_2 / [(m^2)(day)]	%	gm O_2 / [(m^2)(day)]	Meters	(degrees Celcius)	%	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)
	A, (note 1)	**B,** (note 1)	**C,** (note 1)	**D,** (note 1)	**E,** (note 1)	**F1**	**F2**	**F = F1*(1-F2)**	**G**	**I**	**H**	**W = K - F**	**X = (W)(A / D)**	**Y = (W)(B / D)**	**Z = (W)(C / D)**	**AA = (E)(G)(X)**	**AB = (E)(G)(Y)**	**AC,** (note 6)	**AA + AB + AC**	**AD = O AA**	**AE = P AB**	**AF = Q AC**	**AD + AE + AF**
Reach 1: Bayou des Allemands	0.619	0.309	3.25	4.178	3.00	2.00	0%	2.00	404.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	359	180	3722	4260.72
Reach 2: Bayou des Allemands	1.279	0.640	3.00	4.919	3.20	2.00	0%	2.00	342.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	569	285	2635	3489.21
Reach 3: Bayou des Allemands	5.994	2.997	0.20	9.191	1.60	2.00	0%	2.00	440.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	918	459	60	1437.84
Reach 4: Bayou des Allemands	4.045	2.022	0.20	6.267	1.00	2.00	0%	2.00	267.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	345	172	34	550.60
Reach 5: Bayou des Allemands	1.604	0.011	0.20	1.815	1.40	2.00	0%	2.00	334.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	750	5	185	939.62
Reach 6: Bayou des Allemands	0.838	0.010	0.20	1.048	1.50	2.00	0%	2.00	398.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	500	6	236	741.71
Reach 7: Bayou des Allemands	0.010	0.010	0.50	0.520	1.70	2.00	0%	2.00	231.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	4	4	388	395.62
Reach 8: Bayou des Allemands	0.010	0.010	1.50	1.521	1.60	2.00	0%	2.00	180.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	3	3	853	858.82
Reach 9: Bayou des Allemands	0.008	0.008	1.50	1.517	0.90	2.00	0%	2.00	264.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	2	2	704	707.58
Reach 10: Bayou des Allemands	0.010	0.500	0.20	0.710	1.40	2.00	0%	2.00	1058.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	15	741	585	1340.82
Reach 11: Bayou des Allemands	1.000	0.500	0.20	1.701	0.90	2.00	0%	2.00	1224.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	1102	551	435	2087.94
Reach 12: Bayou des Allemands	1.100	0.500	0.20	1.800	0.80	2.00	0%	2.00	1010.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	889	404	319	1612.02
Reach 13: Bayou des Allemands	1.200	0.500	0.20	1.900	1.60	2.00	0%	2.00	500.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	960	400	316	1675.86
Reach 14: Bayou des Allemands	1.299	0.501	0.20	2.000	1.20	2.00	0%	2.00	213.00	30.80	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	332	128	101	560.92
Sub-Total																0	0	0	**0**	6748	3340	10572	**20659**

Notes: Note 1, Data was calculated in and brought from the Calibration worksheet dataset.

Note 2, **J** = [(1 - **H**) x (**D** - **F**) + **F**]

Note 3, **K** = [(**J** - **F**) / (1 - MOS) + **F**]

Note 4, **Q** = **E** x **G** x **N** x $1.065^{(I-20)}$

Note 5, **V** = **S** x $1.065^{(I-20)}$

Note 6, **AC** = **E** x **G** x **Z** x $1.065^{(I-20)}$

EXPLICIT MARGINS:

MARGIN OF SAFETY (MOS) (%) = [MOG + MOU] =	**20%**

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

Bayou des Allemands

Shaded cells are input values for calculations.
Values to be used in the projection models.

Headwater / Tributary load determinations

Headwater / Tributary Description and Reach #	Seasonal Critical flow (cms)	UCBOD (mg/l)	UNBOD (mg/l)	UCBOD (kg/day)	UNBOD (kg/day)	Background UCBOD conc. (mg/l)	Background UNBOD conc. (mg/l)	Background % Reduction	Background UCBOD Load (kg/day)	Background UNBOD Load (kg/day)	Percent reduction of Man-Made loads	UCBOD load adjusted for % Reduction (kg/day)	UNBOD load adjusted for % Reduction (kg/day)	Reduced UCBOD load adjusted for MOS (kg/day)	Reduced UNBOD load adjusted for MOS (kg/day)	Projection UCBOD input conc. (mg/l)	Projection UNBOD input conc. (mg/l)	**Total MOS (kg/day)**	**Total LA (kg/day)**
	A	**B**	**C**	**D = (86.4)(A)(B)**	**E = (86.4)(A)(C)**	**F**	**G**	**H1**	**H = (1-H1) (86.4)(A)(F)**	**I = (1-H1) (86.4)(A)(G)**	**J**	**K = (D-H)(1-J) + H**	**L = (D-I)(1-J) + I**	**M = (K - H) / (1 - MOS) + H**	**N = (L - I) / (1 - MOS) + I**	**(M)/[(A)(86.4)]**	**(N)/[(A)(86.4)]**	**(M+N) - (K+L)**	**K + L**
Lake Salvador	26.80	4.6	0.9	10558.77	1991.35	4.56	0.86	0%	10558.77	1991.35	0%	10558.77	1991.35	10558.77	1991.35	4.56	0.86	**0.00**	**12,550.12**
B. Gauche DS																			
B. Gauche US	6.16	6.5	1.3	3461.70	702.99	6.50	1.32	0%	3461.70	702.99	100%	3461.70	702.99	3461.70	702.99	6.50	1.32	**0.00**	**4,164.69**
SUB-TOTAL TMDL LOADING				**14,020**	**2,694**				**14,020**	**2,694**		**14,020**	**2,694**	**14,020**	**2,694**			**0**	**16,715**

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EXPLICIT MARGINS:

MARGIN OF SAFETY (MOS) (%) =	**20%**

Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Bayou des Allemands

Shaded cells are input values for calculations.

REACH NUMBER & DESCRIPTION	Calibration Model Reach Length (km)	Calibration Model Average Reach Width (meters)	Calibration Model UCBOD Nonpoint loading (kg/day)	Calibration Model UNBOD Nonpoint loading (kg/day)	Calibration Model UCBOD Nonpoint loading (gm O_2/m^2/day)	Calibration Model UNBOD Nonpoint loading (gm O_2/m^2/day)	Calibration Model SOD (gm O_2/m^2/day)	Calibration Model TOTAL Benthic Load (gm O_2/m^2/day)
	A	**B**	**C**	**D**	**E = C / (A x B)**	**F = D / (A x B)**	**G**	**H = E + F + G**
Reach 1: Bayou des Allemands	3.00	404	750	375	0.619	0.309	3.25	**4.18**
Reach 2: Bayou des Allemands	3.20	342	1400	700	1.279	0.640	3.00	**4.92**
Reach 3: Bayou des Allemands	1.60	440	4220	2110	5.994	2.997	0.20	**9.19**
Reach 4: Bayou des Allemands	1.00	267	1080	540	4.045	2.022	0.20	**6.27**
Reach 5: Bayou des Allemands	1.40	334	750	5	1.604	0.011	0.20	**1.81**
Reach 6: Bayou des Allemands	1.50	398	500	6	0.838	0.010	0.20	**1.05**
Reach 7: Bayou des Allemands	1.70	231	4	4	0.010	0.010	0.5	**0.52**
Reach 8: Bayou des Allemands	1.60	180	3	3	0.010	0.010	1.5	**1.52**
Reach 9: Bayou des Allemands	0.90	264	2	2	0.008	0.008	1.5	**1.52**
Reach 10: Bayou des Allemands	1.40	1058	15	741	0.010	0.500	0.2	**0.71**
Reach 11: Bayou des Allemands	0.90	1224	1102	551	1.000	0.500	0.2	**1.70**
Reach 12: Bayou des Allemands	0.80	1010	889	404	1.100	0.500	0.2	**1.80**
Reach 13: Bayou des Allemands	1.60	500	960	400	1.200	0.500	0.2	**1.90**
Reach 14: Bayou des Allemands	1.20	213	332	128	1.299	0.501	0.2	**2.00**

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Winter Projection, No Man Made Loading, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body:	Bayou des Allemands

Shaded cells are input values for calculations.

Values to be used in the projection models.

	Calibration Model Values												Projection Model Equivalents				Projected Model Loads				Margin of Safety Loads					
Reach Number and Description	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Total Calb. Benthic Load (TCBL)	Reach Length	Back-ground Benthic Load	Back-ground percentage reduction	Back-ground Benthic Load adjusted for % reduction	Proj. Model Avg. Reach Width	Proj. Temp.	Percentage Reduction of man-made sources	TCBL adjusted for % reduction (Reduced TCBL)	Reduced TCBL adjusted for MOS	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	SOD load @ Proj. temp.	Total Projection Benthic Load **(LA+MOS)**	MOS Total Benthic Load @ 20°C	MOS SOD @ 20°C	Non-Point UCBOD MOS Loads	Non-Point UNBOD MOS Loads	Adjusted SOD MOS @ Proj. temp	Adjusted Total MOS @ Proj. temp
	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	Kilo-meters	gm O_2 / [(m^2)(day)]	%	gm O_2 / [(m^2)(day)]	Meters	(degrees Celcius)	%	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)
	A, (note 1)	**B,** (note 1)	**C,** (note 1)	**D,** (note 1)	**E,** (note 1)	**F1**	**F2**	**F = F1*(1-F2)**	**G**	**I**	**H**	**J,** (note 2)	**K,** (note 3)	**L = (K)(A / D)**	**M = (K)(B / D)**	**N = (K)(C / D)**	**O = (E)(G)(L)**	**P = (E)(G)(M)**	**Q,** (note 4)	**O + P + Q**	**R = (K-J)(E)(G)**	**S = (R)(C/D)**	**T = (R)(A/D)**	**U = (R)(B/D)**	**V,** (note 5)	**T + U + V**
Reach 1: Bayou des Allemands	0.619	0.309	3.25	4.178	3.00	2.00	0%	2.00	404.00	21.68	100.0%	2.00	2.00	0.296	0.148	1.56	359	180	2096	2634.42	0	0	0	0	0	0
Reach 2: Bayou des Allemands	1.279	0.640	3.00	4.919	3.20	2.00	0%	2.00	342.00	21.68	100.0%	2.00	2.00	0.520	0.260	1.22	569	285	1484	2337.78	0	0	0	0	0	0
Reach 3: Bayou des Allemands	5.994	2.997	0.20	9.191	1.60	2.00	0%	2.00	440.00	21.68	100.0%	2.00	2.00	1.304	0.652	0.04	918	459	34	1411.42	0	0	0	0	0	0
Reach 4: Bayou des Allemands	4.045	2.022	0.20	6.267	1.00	2.00	0%	2.00	267.00	21.68	100.0%	2.00	2.00	1.291	0.645	0.06	345	172	19	535.90	0	0	0	0	0	0
Reach 5: Bayou des Allemands	1.604	0.011	0.20	1.815	1.40	2.00	0%	2.00	334.00	21.68	100.0%	1.81	1.81	1.604	0.011	0.20	750	5	104	858.96	0	0	0	0	0	0
Reach 6: Bayou des Allemands	0.838	0.010	0.20	1.048	1.50	2.00	0%	2.00	398.00	21.68	100.0%	1.05	1.05	0.838	0.010	0.20	500	6	133	638.72	0	0	0	0	0	0
Reach 7: Bayou des Allemands	0.010	0.010	0.50	0.520	1.70	2.00	0%	2.00	231.00	21.68	100.0%	0.52	0.52	0.010	0.010	0.50	4	4	218	226.26	0	0	0	0	0	0
Reach 8: Bayou des Allemands	0.010	0.010	1.50	1.521	1.60	2.00	0%	2.00	180.00	21.68	100.0%	1.52	1.52	0.010	0.010	1.50	3	3	480	486.21	0	0	0	0	0	0
Reach 9: Bayou des Allemands	0.008	0.008	1.50	1.517	0.90	2.00	0%	2.00	264.00	21.68	100.0%	1.52	1.52	0.008	0.008	1.50	2	2	396	400.17	0	0	0	0	0	0
Reach 10: Bayou des Allemands	0.010	0.500	0.20	0.710	1.40	2.00	0%	2.00	1058.00	21.68	100.0%	0.71	0.71	0.010	0.500	0.20	15	741	329	1085.30	0	0	0	0	0	0
Reach 11: Bayou des Allemands	1.000	0.500	0.20	1.701	0.90	2.00	0%	2.00	1224.00	21.68	100.0%	1.70	1.70	1.000	0.500	0.20	1102	551	245	1897.91	0	0	0	0	0	0
Reach 12: Bayou des Allemands	1.100	0.500	0.20	1.800	0.80	2.00	0%	2.00	1010.00	21.68	100.0%	1.80	1.80	1.100	0.500	0.20	889	404	180	1472.63	0	0	0	0	0	0
Reach 13: Bayou des Allemands	1.200	0.500	0.20	1.900	1.60	2.00	0%	2.00	500.00	21.68	100.0%	1.90	1.90	1.200	0.500	0.20	960	400	178	1537.86	0	0	0	0	0	0
Reach 14: Bayou des Allemands	1.299	0.501	0.20	2.000	1.20	2.00	0%	2.00	213.00	21.68	100.0%	2.00	2.00	1.299	0.501	0.20	332	128	57	516.82	0	0	0	0	0	0
Sub-Total												22.53					6748	3340	5953	**16040**	0		0	0	0	**0**

Notes: Note 1, Data was calculated in and brought from the Calibration worksheet dataset.

Note 2, **J** = [(1 - **H**) x (**D** - **F**) + **F**]

Note 3, **K** = [(**J** - **F**) / (1 - MOS) + **F**]

Note 4, **Q** = **E** x **G** x **N** x $1.065^{(I-20)}$

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EXPLICIT MARGINS:

MARGIN OF SAFETY (MOS) (%) = [MOG + MOU] =	**20%**

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Winter Projection, No Man Made Loading, Non-Point Benthic Load Input and TMDL Calculation

Modeled stream or water body:	Bayou des Allemands

Shaded cells are input values for calculations.

Values to be used in the projection models.

	Calibration Model Values												Man-made Model equivalents				Man-made Model loads				Background Model loads			
Reach Number and Description	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Total Calb. Benthic Load (TCBL)	Reach Length	Back-ground Benthic Load	Back-ground percentage reduction	Back-ground Benthic Load adjusted for % reduction	Proj. Model Avg. Reach Width	Proj. Temp.	Percentage Reduction of man-made sources	TCBL adjusted for % reduction (Reduced TCBL)	Manmade portion of TCBL	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	SOD load @ Proj. temp.	Man-made Total Projection Benthic Load	Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	SOD load @ Proj. temp.	Man-made Total Projection Benthic Load
	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	Kilo-meters	gm O_2 / [(m^2)(day)]	%	gm O_2 / [(m^2)(day)]	Meters	(degrees Celcius)	%	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)
	A, (note 1)	**B,** (note 1)	**C,** (note 1)	**D,** (note 1)	**E,** (note 1)	**F1**	**F2**	**F = F1*(1-F2)**	**G**	**I**	**H**	**J,** (note 2)	**W = K - F**	**X = (W)(A / D)**	**Y = (W)(B / D)**	**Z = (W)(C / D)**	**AA = (E)(G)(X)**	**AB = (E)(G)(Y)**	**AC,** (note 6)	**AA + AB + AC**	**AD = O AA**	**AE = P - AB**	**AF = Q - AC**	**AD + AE + AF**
Reach 1: Bayou des Allemands	0.619	0.309	3.25	4.178	3.00	2.00	0%	2.00	404.00	21.68	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	359	180	2096	2634.42
Reach 2: Bayou des Allemands	1.279	0.640	3.00	4.919	3.20	2.00	0%	2.00	342.00	21.68	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	569	285	1484	2337.78
Reach 3: Bayou des Allemands	5.994	2.997	0.20	9.191	1.60	2.00	0%	2.00	440.00	21.68	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	918	459	34	1411.42
Reach 4: Bayou des Allemands	4.045	2.022	0.20	6.267	1.00	2.00	0%	2.00	267.00	21.68	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	345	172	19	535.90
Reach 5: Bayou des Allemands	1.604	0.011	0.20	1.815	1.40	2.00	0%	2.00	334.00	21.68	100.0%	1.81	0.00	0.000	0.000	0.00	0	0	0	0.00	750	5	104	858.96
Reach 6: Bayou des Allemands	0.838	0.010	0.20	1.048	1.50	2.00	0%	2.00	398.00	21.68	100.0%	1.05	0.00	0.000	0.000	0.00	0	0	0	0.00	500	6	133	638.72
Reach 7: Bayou des Allemands	0.010	0.010	0.50	0.520	1.70	2.00	0%	2.00	231.00	21.68	100.0%	0.52	0.00	0.000	0.000	0.00	0	0	0	0.00	4	4	218	226.26
Reach 8: Bayou des Allemands	0.010	0.010	1.50	1.521	1.60	2.00	0%	2.00	180.00	21.68	100.0%	1.52	0.00	0.000	0.000	0.00	0	0	0	0.00	3	3	480	486.21
Reach 9: Bayou des Allemands	0.008	0.008	1.50	1.517	0.90	2.00	0%	2.00	264.00	21.68	100.0%	1.52	0.00	0.000	0.000	0.00	0	0	0	0.00	2	2	396	400.17
Reach 10: Bayou des Allemands	0.010	0.500	0.20	0.710	1.40	2.00	0%	2.00	1058.00	21.68	100.0%	0.71	0.00	0.000	0.000	0.00	0	0	0	0.00	15	741	329	1085.30
Reach 11: Bayou des Allemands	1.000	0.500	0.20	1.701	0.90	2.00	0%	2.00	1224.00	21.68	100.0%	1.70	0.00	0.000	0.000	0.00	0	0	0	0.00	1102	551	245	1897.91
Reach 12: Bayou des Allemands	1.100	0.500	0.20	1.800	0.80	2.00	0%	2.00	1010.00	21.68	100.0%	1.80	0.00	0.000	0.000	0.00	0	0	0	0.00	889	404	180	1472.63
Reach 13: Bayou des Allemands	1.200	0.500	0.20	1.900	1.60	2.00	0%	2.00	500.00	21.68	100.0%	1.90	0.00	0.000	0.000	0.00	0	0	0	0.00	960	400	178	1537.86
Reach 14: Bayou des Allemands	1.299	0.501	0.20	2.000	1.20	2.00	0%	2.00	213.00	21.68	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	332	128	57	516.82
Sub-Total												22.53					0	0	0	**0**	6748	3340	5953	**16040**

Notes: Note 1, Data was calculated in and brought from the Calibration worksheet dataset.

Note 2, **J** = [(1 - **H**) x (**D** - **F**) + **F**]

Note 3, **K** = [(**J** - **F**) / (1 - MOS) + **F**]

Note 4, **Q** = **E** x **G** x **N** x $1.065^{(I-20)}$

Note 5, **V** = **S** x $1.065^{(I-20)}$

Note 6, **AC** = **E** x **G** x **Z** x $1.065^{(I-20)}$

EXPLICIT MARGINS:

MARGIN OF SAFETY (MOS) (%) = [MOG + MOU] =	**20%**

FILE: R:\PROJECTS\3110-051\DES ALLEMANDS PDF\TMDL LOAD CALC FOR DES_ALL-NAT.XLS

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

Bayou des Allemands

Shaded cells are input values for calculations.
Values to be used in the projection models.

Headwater / Tributary load determinations

Headwater / Tributary Description and Reach #	Seasonal Critical flow (cms)	UCBOD (mg/l)	UNBOD (mg/l)	UCBOD (kg/day)	UNBOD (kg/day)	Background UCBOD conc. (mg/l)	Background UNBOD conc. (mg/l)	Background % Reduction	Background UCBOD Load (kg/day)	Background UNBOD Load (kg/day)	Percent reduction of Man-Made loads	UCBOD load adjusted for % Reduction (kg/day)	UNBOD load adjusted for % Reduction (kg/day)	Reduced UCBOD load adjusted for MOS (kg/day)	Reduced UNBOD load adjusted for MOS (kg/day)	Projection UCBOD input conc. (mg/l)	Projection UNBOD input conc. (mg/l)	**Total MOS (kg/day)**	**Total LA (kg/day)**
	A	**B**	**C**	**D = (86.4)(A)(B)**	**E = (86.4)(A)(C)**	**F**	**G**	**H1**	**H = (1-H1) (86.4)(A)(F)**	**I = (1-H1) (86.4)(A)(G)**	**J**	**K = (D-H)(1-J) + H**	**L = (D-I)(1-J) + I**	**M = (K - H) / (1 - MOS) + H**	**N = (L - I) / (1 - MOS) + I**	**(M)/[(A)(86.4)]**	**(N)/[(A)(86.4)]**	**(M+N) - (K+L)**	**K + L**
Lake Salvador	26.80	4.6	0.9	10558.77	1991.35	4.56	0.86	0%	10558.77	1991.35	0%	10558.77	1991.35	10558.77	1991.35	4.56	0.86	**0.00**	**12,550.12**
B. Gauche DS																			
B. Gauche US	6.16	6.5	1.3	3461.70	702.99	6.50	1.32	0%	3461.70	702.99	100%	3461.70	702.99	3461.70	702.99	6.50	1.32	**0.00**	**4,164.69**
SUB-TOTAL TMDL LOADING				**14,020**	**2,694**				**14,020**	**2,694**		**14,020**	**2,694**	**14,020**	**2,694**			**0**	**16,715**

FILE: R:\PROJECTS\3110-051\LA-QUAL\DES_ALL\REVISIONS\TMDL LOAD CALC FOR DES_ALL-NAT.XLS

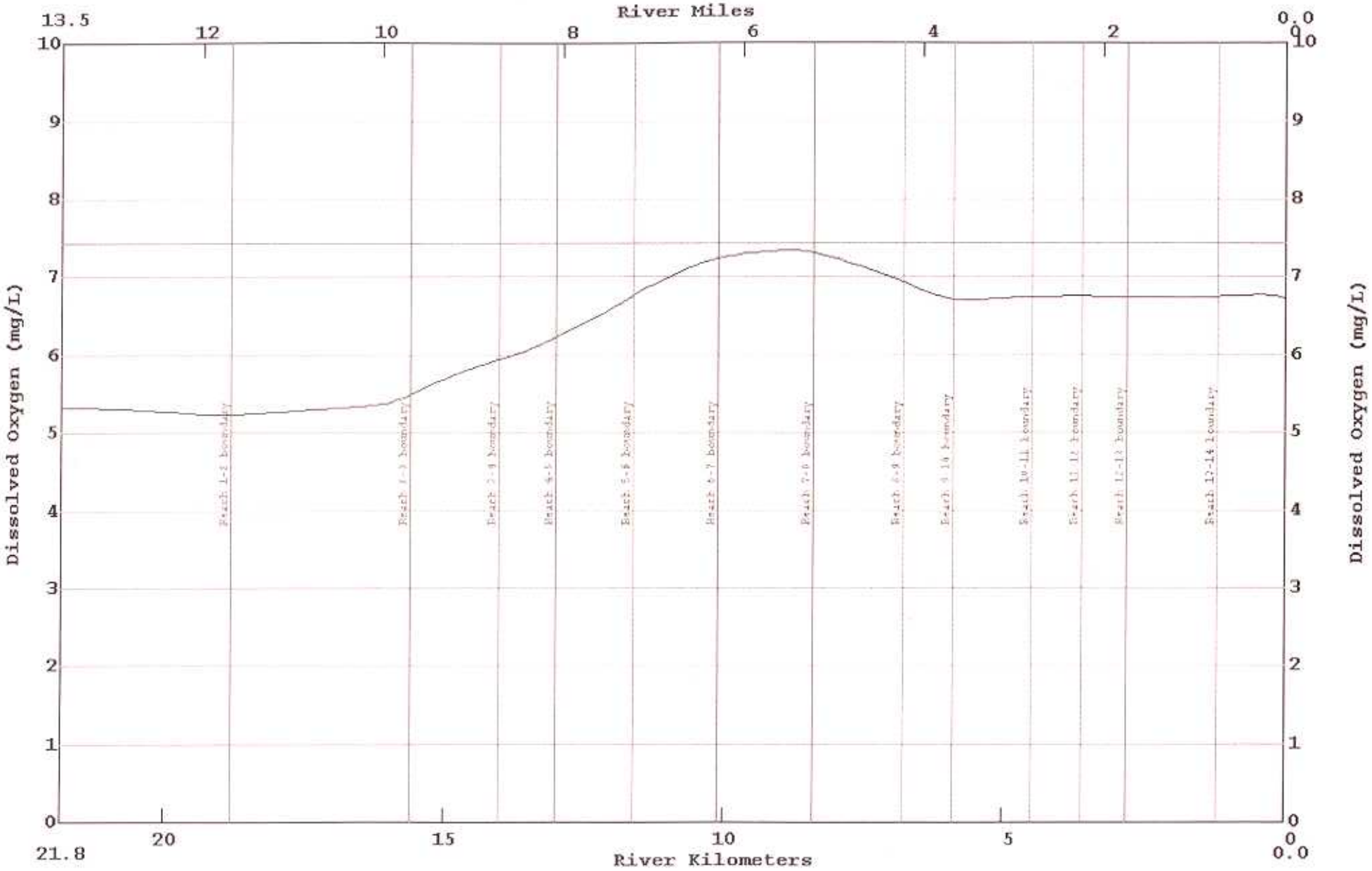
EXPLICIT MARGINS:

MARGIN OF SAFETY (MOS) (%) =	**20%**

APPENDIX P

Model Output for No-Load Runs

LA-QUAL Version 6.02 Run at 17:33 on 01/28/2004 File R:\projects\3110-051\la-qual\des_all\proj\summer\nat\bda_sum_nat.
SUMMER DO NATURAL CONDITIONS (no man made loads) min= 5.23 max= 7.34
BAYOU DES ALLEMANDS REACHES 1-14



```
LA-QUAL Version 6.02
Louisiana Department of Environmental Quality

Input file is R:\projects\3110-051\la-qual\des_all\revisions\proj\summer\nat\bda_sum_nat.txt
Output produced at 16:52 on 03/30/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Des Allemands (020301)
TITLE02         SUMMER DO NATURAL CONDITIONS (no man made loads)
CNTROL03   NO   SEQU                        <Warning: legacy control - line ignored>
CNTROL04  YES   METR
CNTROL05  YES   OXYG                        <Warning: legacy control - line ignored>
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMP
MODOPT02   NO   SALI
MODOPT03  YES   CONSERVATIVE MATERIAL  I = Chloride                  IN mg/L      CL
MODOPT04  YES   CONSERVATIVE MATERIAL II = Conductivity              IN umhos     COND
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BIOCHEMICAL OXYGEN DEMAND
MODOPT07   NO   NITR
MODOPT08   NO   PHOS
MODOPT09   NO   CHLO
MODOPT10   NO   MACR
MODOPT11   NO   COLI
MODOPT12  YES   NONCONSERVATIVE MATERIAL = Nitrogenous BOD           IN mg/L      NBOD
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

PROGRAM         HYDRAULIC CALCULATION METHOD       =         2.00000 (widths and depths)
PROGRAM         NCM OXYGEN UPTAKE RATE             =         1.00000 mg O/mg NCM
PROGRAM         KL MINIMUM                         =         0.93000 meters/day
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05
```

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

CARD TYPE	DESCRIPTION OF CONSTANT	VALUE

ENDATA06

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

CARD TYPE	DESCRIPTION OF CONSTANT	VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$

CARD TYPE	REACH	ID	NAME	BEGIN REACH km		END REACH km	ELEM LENGTH km	REACH LENGTH km	ELEMS PER RCH	BEGIN ELEM NUM	END ELEM NUM
REACH ID	1	DA	Bayou Des Allemands	21.80	TO	18.80	0.1000	3.00	30	1	30
REACH ID	2	DA	Bayou Des Allemands	18.80	TO	15.60	0.1000	3.20	32	31	62
REACH ID	3	DA	Bayou Des Allemands	15.60	TO	14.00	0.1000	1.60	16	63	78
REACH ID	4	DA	Bayou Des Allemands	14.00	TO	13.00	0.1000	1.00	10	79	88
REACH ID	5	DA	Bayou Des Allemands	13.00	TO	11.60	0.1000	1.40	14	89	102
REACH ID	6	DA	Bayou Des Allemands	11.60	TO	10.10	0.1000	1.50	15	103	117
REACH ID	7	DA	Bayou Des Allemands	10.10	TO	8.40	0.1000	1.70	17	118	134
REACH ID	8	DA	Bayou Des Allemands	8.40	TO	6.80	0.1000	1.60	16	135	150
REACH ID	9	DA	Bayou Des Allemands	6.80	TO	5.90	0.1000	0.90	9	151	159
REACH ID	10	DA	Bayou Des Allemands	5.90	TO	4.50	0.1000	1.40	14	160	173
REACH ID	11	DA	Bayou Des Allemands	4.50	TO	3.60	0.1000	0.90	9	174	182
REACH ID	12	DA	Bayou Des Allemands	3.60	TO	2.80	0.1000	0.80	8	183	190
REACH ID	13	DA	Bayou Des Allemands	2.80	TO	1.20	0.1000	1.60	16	191	206
REACH ID	14	DA	Bayou Des Allemands	1.20	TO	0.00	0.1000	1.20	12	207	218

ENDATA08

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

CARD TYPE	REACH	ID	WIDTH "A"	WIDTH "B"	WIDTH "C"	DEPTH "D"	DEPTH "E"	DEPTH "F"	SLOPE	MANNINGS "N"
HYDR-1	1	DA	0.000	0.000	404.000	0.000	0.000	2.350	0.00000	0.000
HYDR-1	2	DA	0.000	0.000	342.000	0.000	0.000	2.350	0.00000	0.000
HYDR-1	3	DA	0.000	0.000	440.000	0.000	0.000	2.410	0.00000	0.000
HYDR-1	4	DA	0.000	0.000	267.000	0.000	0.000	2.470	0.00000	0.000
HYDR-1	5	DA	0.000	0.000	334.000	0.000	0.000	2.490	0.00000	0.000
HYDR-1	6	DA	0.000	0.000	398.000	0.000	0.000	2.500	0.00000	0.000
HYDR-1	7	DA	0.000	0.000	231.000	0.000	0.000	2.500	0.00000	0.000
HYDR-1	8	DA	0.000	0.000	180.000	0.000	0.000	2.340	0.00000	0.000
HYDR-1	9	DA	0.000	0.000	264.000	0.000	0.000	2.170	0.00000	0.000
HYDR-1	10	DA	0.000	0.000	1058.000	0.000	0.000	1.970	0.00000	0.000
HYDR-1	11	DA	0.000	0.000	1224.000	0.000	0.000	1.760	0.00000	0.000
HYDR-1	12	DA	0.000	0.000	1010.000	0.000	0.000	1.810	0.00000	0.000
HYDR-1	13	DA	0.000	0.000	500.000	0.000	0.000	1.850	0.00000	0.000
HYDR-1	14	DA	0.000	0.000	213.000	0.000	0.000	1.850	0.00000	0.000

ENDATA09

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

CARD TYPE	REACH	ID	TIDAL RANGE	DISPERSION "A"	DISPERSION "B"	DISPERSION "C"	DISPERSION "D"
HYDR	1	DA	0.00	10.000	0.000	0.000	0.000
HYDR	2	DA	0.00	10.000	0.000	0.000	0.000
HYDR	3	DA	0.00	10.000	0.000	0.000	0.000
HYDR	4	DA	0.00	10.000	0.000	0.000	0.000
HYDR	5	DA	0.00	10.000	0.000	0.000	0.000
HYDR	6	DA	0.00	10.000	0.000	0.000	0.000
HYDR	7	DA	0.00	10.000	0.000	0.000	0.000
HYDR	8	DA	0.00	10.000	0.000	0.000	0.000
HYDR	9	DA	0.00	10.000	0.000	0.000	0.000
HYDR	10	DA	0.00	10.000	0.000	0.000	0.000
HYDR	11	DA	0.00	10.000	0.000	0.000	0.000
HYDR	12	DA	0.00	10.000	0.000	0.000	0.000
HYDR	13	DA	0.00	10.000	0.000	0.000	0.000
HYDR	14	DA	0.00	10.000	0.000	0.000	0.000

ENDATA10

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

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	DA	30.80	0.66	6.17	0.00	0.00	0.00	8.70	0.00
INITIAL	2	DA	30.80	0.66	6.17	0.00	0.00	0.00	4.60	0.00
INITIAL	3	DA	30.80	0.67	6.65	0.00	0.00	0.00	4.60	0.00
INITIAL	4	DA	30.80	0.67	6.65	0.00	0.00	0.00	4.60	0.00
INITIAL	5	DA	30.80	0.68	7.13	0.00	0.00	0.00	10.50	0.00
INITIAL	6	DA	30.80	0.68	7.13	0.00	0.00	0.00	16.40	0.00
INITIAL	7	DA	30.80	0.68	7.13	0.00	0.00	0.00	16.40	0.00
INITIAL	8	DA	30.80	0.69	6.96	0.00	0.00	0.00	10.45	0.00
INITIAL	9	DA	30.80	0.70	6.78	0.00	0.00	0.00	4.50	0.00
INITIAL	10	DA	30.80	0.70	6.78	0.00	0.00	0.00	4.50	0.00
INITIAL	11	DA	30.80	0.67	6.76	0.00	0.00	0.00	3.75	0.00
INITIAL	12	DA	30.80	0.67	6.76	0.00	0.00	0.00	3.75	0.00
INITIAL	13	DA	30.80	0.65	6.74	0.00	0.00	0.00	3.00	0.00
INITIAL	14	DA	30.80	0.65	6.74	0.00	0.00	0.00	3.00	0.00

ENDATA11

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

CARD TYPE	RCH NUM	RCH ID	K2 OPT	K2 "A"	K2 "B"	K2 "C"	BKGRND SOD g/m²/d	BOD DECAY per day	BOD SETT m/d	BOD CONV TO SOD	ANAER BOD DECAY per day	BOD2 DECAY per day	BOD2 SETT m/d	BOD2 CONV TO SOD	ANAER BOD2 DECAY per day
COEF-1	1	DA	15 LOUISIANA	0.000	0.000	0.000	1.560	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	DA	15 LOUISIANA	0.000	0.000	0.000	1.220	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	DA	15 LOUISIANA	0.000	0.000	0.000	0.040	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	DA	15 LOUISIANA	0.000	0.000	0.000	0.060	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	DA	15 LOUISIANA	0.000	0.000	0.000	0.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	DA	15 LOUISIANA	0.000	0.000	0.000	1.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	DA	15 LOUISIANA	0.000	0.000	0.000	1.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	11	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ENDATA12

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

CARD TYPE	REACH	ID	ORG-N DECA	ORG-N SETT	ORGN CONV TO NH3 SRCE	NH3 DECA	NH3 SRCE	PHOS SRCE	DENIT RATE

ENDATA13

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

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

ENDATA14

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

CARD TYPE	REACH	ID	COLIFORM DIE-OFF	NCM DECAY	NCM SETT	NCM CONV TO SOD
COEF-4	1	DA	0.000	0.090	0.000	0.000
COEF-4	2	DA	0.000	0.090	0.000	0.000
COEF-4	3	DA	0.000	0.090	0.000	0.000
COEF-4	4	DA	0.000	0.090	0.000	0.000
COEF-4	5	DA	0.000	0.090	0.000	0.000
COEF-4	6	DA	0.000	0.090	0.000	0.000
COEF-4	7	DA	0.000	0.090	0.000	0.000
COEF-4	8	DA	0.000	0.090	0.000	0.000
COEF-4	9	DA	0.000	0.090	0.000	0.000
COEF-4	10	DA	0.000	0.090	0.000	0.000
COEF-4	11	DA	0.000	0.090	0.000	0.000
COEF-4	12	DA	0.000	0.090	0.000	0.000
COEF-4	13	DA	0.000	0.090	0.000	0.000
COEF-4	14	DA	0.000	0.090	0.000	0.000

ENDATA15

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

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

ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD     ORG-N     NH3-N     NO3-N     BOD#2

ENDATA17

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

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

ENDATA18

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

CARD TYPE      REACH  ID       BOD#1     ORG-N      COLI       NCM        DO     BOD#2

NONPOINT         1   DA      359.00      0.00      0.00    180.00      0.00      0.00
NONPOINT         2   DA      569.00      0.00      0.00    285.00      0.00      0.00
NONPOINT         3   DA      918.00      0.00      0.00    459.00      0.00      0.00
NONPOINT         4   DA      345.00      0.00      0.00    172.00      0.00      0.00
NONPOINT         5   DA      750.00      0.00      0.00      5.00      0.00      0.00
NONPOINT         6   DA      500.00      0.00      0.00      6.00      0.00      0.00
NONPOINT         7   DA        4.00      0.00      0.00      4.00      0.00      0.00
NONPOINT         8   DA        3.00      0.00      0.00      3.00      0.00      0.00
NONPOINT         9   DA        2.00      0.00      0.00      2.00      0.00      0.00
NONPOINT        10   DA       15.00      0.00      0.00    741.00      0.00      0.00
NONPOINT        11   DA     1102.00      0.00      0.00    551.00      0.00      0.00
NONPOINT        12   DA      889.00      0.00      0.00    404.00      0.00      0.00
NONPOINT        13   DA      960.00      0.00      0.00    400.00      0.00      0.00
NONPOINT        14   DA      332.00      0.00      0.00    128.00      0.00      0.00
ENDATA19

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

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

HDWTR-1          1                             0  26.80000  946.328   30.80     0.00   369.000  1405.000
ENDATA20

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

CARD TYPE     ELEMENT   NAME                        DO     BOD#1     ORG-N     NH3-N     NO3-N     BOD#2
                                                   mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-1          1                                5.32      4.56      0.00      0.00      0.00      0.00
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
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CARD TYPE     ELEMENT   NAME                          PHOS     CHL A      COLI       NCM
                                                      mg/L      mg/L      mg/L      mg/L

HDWTR-1           1                                   0.00      0.00      0.00      0.86
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

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

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

WSTLD-1      112      10.70  B. Gauche DS          -6.16400 -217.65536 -140.695    0.00     0.00     0.000     0.000
WSTLD-1      163       5.60  B. Gauche US           6.16400  217.65536  140.695   27.88     0.71   346.000  1341.000
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                                        % BOD                            %
CARD TYPE     ELEMENT   NAME                          DO       BOD      RMVL     ORG-N     NH3-N    NITRIF     NO3-N     BOD#2
                                                     mg/L      mg/L                mg/L      mg/L                mg/L      mg/L

WSTLD-1         112     B. Gauche DS                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WSTLD-1         163     B. Gauche US                6.25      6.50      0.00      0.00      0.00      0.00      0.00      0.00
ENDATA25

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

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

WSTLD-1         112     B. Gauche DS                0.00      0.00      0.00      0.00
WSTLD-1         163     B. Gauche US                0.00      0.00      0.00      1.32
ENDATA26

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

CARD TYPE    CONSTITUENT                     CONCENTRATION

LOWER BC     TEMPERATURE                        =     30.800     deg C
LOWER BC     SALINITY                           =      0.640     ppt
LOWER BC     CONSERVATIVE MATERIAL I            =    311.000     mg/L
LOWER BC     CONSERVATIVE MATERIAL II           =   1210.500     umhos
LOWER BC     DISSOLVED OXYGEN                   =      6.710     mg/L
LOWER BC     BIOCHEMICAL OXYGEN DEMAND          =      5.590     mg/L
LOWER BC     CHLOROPHYLL A                      =      3.000     µg/L
LOWER BC     NONCONSERVATIVE MATERIAL           =      1.420     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$
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CARD TYPE     ELEMENT   NAME                  EQN      "A"       "B"       "H"

ENDATA28

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

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

ENDATA29

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


NUMBER OF PLOTS =  3
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  2  3  4  5  6  7
NUMBER OF REACHES IN PLOT 2 =   7
PLOT RCH  8  9 10 11 12 13 14
ENDATA30

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


OVERLAY 1 BDA_sens.OVL                    :BAYOU DES ALLEMANDS REACHES 1-14
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   1 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
     .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12
     .....GRAPHICS DATA FOR PLOT 3 WRITTEN TO UNIT 13


CONDENSED CAPSULE SUMMARY FOR

                                                                                REAER BOD1 BOD1 BOD2 BOD2  NH3
    DIST     FLOW   TEMP SALN    DO  EBOD1 EBOD2 ORGN  NH3  CHLA   RATE  DECA SETT DECA SETT DECA  SOD
      km     m³/s  deg C  ppt   mg/L  mg/L  mg/L mg/L µg/L  1/da   1/da  1/da 1/da 1/da 1/da 1/da   g/m²/d

   HDWTR  26.80000 30.80 0.00   5.32  4.56  0.00 0.00 0.00  0.00
   21.70  26.80000 30.80 0.66   5.32  4.51  0.00 0.00 0.00  8.56   0.55  0.08 0.00 0.00 0.00 0.00  3.08
   21.60  26.80000 30.80 0.66   5.32  4.51  0.00 0.00 0.00  8.43   0.55  0.08 0.00 0.00 0.00 0.00  3.08
   21.50  26.80000 30.80 0.66   5.32  4.50  0.00 0.00 0.00  8.29   0.55  0.08 0.00 0.00 0.00 0.00  3.08
   21.40  26.80000 30.80 0.66   5.32  4.49  0.00 0.00 0.00  8.15   0.55  0.08 0.00 0.00 0.00 0.00  3.08
   21.30  26.80000 30.80 0.66   5.32  4.48  0.00 0.00 0.00  8.02   0.55  0.08 0.00 0.00 0.00 0.00  3.08
   21.20  26.80000 30.80 0.66   5.31  4.47  0.00 0.00 0.00  7.88   0.55  0.08 0.00 0.00 0.00 0.00  3.08
   21.10  26.80000 30.80 0.66   5.31  4.46  0.00 0.00 0.00  7.74   0.55  0.08 0.00 0.00 0.00 0.00  3.08
   21.00  26.80000 30.80 0.66   5.31  4.45  0.00 0.00 0.00  7.61   0.55  0.08 0.00 0.00 0.00 0.00  3.08
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20.90	26.80000	30.80	0.66	5.31	4.44	0.00	0.00	0.00	7.47	0.55	0.08	0.00	0.00	0.00	0.00	3.08
20.80	26.80000	30.80	0.66	5.30	4.43	0.00	0.00	0.00	7.33	0.55	0.08	0.00	0.00	0.00	0.00	3.08
20.70	26.80000	30.80	0.66	5.30	4.42	0.00	0.00	0.00	7.20	0.55	0.08	0.00	0.00	0.00	0.00	3.08
20.60	26.80000	30.80	0.66	5.30	4.41	0.00	0.00	0.00	7.06	0.55	0.08	0.00	0.00	0.00	0.00	3.08
20.50	26.80000	30.80	0.66	5.29	4.40	0.00	0.00	0.00	6.92	0.55	0.08	0.00	0.00	0.00	0.00	3.08
20.40	26.80000	30.80	0.66	5.29	4.39	0.00	0.00	0.00	6.79	0.55	0.08	0.00	0.00	0.00	0.00	3.08
20.30	26.80000	30.80	0.66	5.29	4.38	0.00	0.00	0.00	6.65	0.55	0.08	0.00	0.00	0.00	0.00	3.08
20.20	26.80000	30.80	0.66	5.28	4.37	0.00	0.00	0.00	6.51	0.55	0.08	0.00	0.00	0.00	0.00	3.08
20.10	26.80000	30.80	0.66	5.28	4.36	0.00	0.00	0.00	6.38	0.55	0.08	0.00	0.00	0.00	0.00	3.08
20.00	26.80000	30.80	0.66	5.27	4.35	0.00	0.00	0.00	6.24	0.55	0.08	0.00	0.00	0.00	0.00	3.08
19.90	26.80000	30.80	0.66	5.27	4.34	0.00	0.00	0.00	6.10	0.55	0.08	0.00	0.00	0.00	0.00	3.08
19.80	26.80000	30.80	0.66	5.26	4.33	0.00	0.00	0.00	5.97	0.55	0.08	0.00	0.00	0.00	0.00	3.08
19.70	26.80000	30.80	0.66	5.26	4.33	0.00	0.00	0.00	5.83	0.55	0.08	0.00	0.00	0.00	0.00	3.08
19.60	26.80000	30.80	0.66	5.25	4.32	0.00	0.00	0.00	5.69	0.55	0.08	0.00	0.00	0.00	0.00	3.08
19.50	26.80000	30.80	0.66	5.25	4.31	0.00	0.00	0.00	5.56	0.55	0.08	0.00	0.00	0.00	0.00	3.08
19.40	26.80000	30.80	0.66	5.24	4.30	0.00	0.00	0.00	5.42	0.55	0.08	0.00	0.00	0.00	0.00	3.08
19.30	26.80000	30.80	0.66	5.24	4.29	0.00	0.00	0.00	5.28	0.55	0.08	0.00	0.00	0.00	0.00	3.08
19.20	26.80000	30.80	0.66	5.23	4.28	0.00	0.00	0.00	5.15	0.55	0.08	0.00	0.00	0.00	0.00	3.08
19.10	26.80000	30.80	0.66	5.23	4.28	0.00	0.00	0.00	5.01	0.55	0.08	0.00	0.00	0.00	0.00	3.08
19.00	26.80000	30.80	0.66	5.23	4.27	0.00	0.00	0.00	4.87	0.55	0.08	0.00	0.00	0.00	0.00	3.08
18.90	26.80000	30.80	0.66	5.23	4.26	0.00	0.00	0.00	4.74	0.55	0.08	0.00	0.00	0.00	0.00	3.08
18.80	26.80000	30.80	0.66	5.23	4.26	0.00	0.00	0.00	4.60	0.55	0.08	0.00	0.00	0.00	0.00	3.08
18.70	26.80000	30.80	0.66	5.23	4.26	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
18.60	26.80000	30.80	0.66	5.24	4.25	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
18.50	26.80000	30.80	0.66	5.24	4.25	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
18.40	26.80000	30.80	0.66	5.25	4.24	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
18.30	26.80000	30.80	0.66	5.25	4.24	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
18.20	26.80000	30.80	0.66	5.26	4.23	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
18.10	26.80000	30.80	0.66	5.26	4.23	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
18.00	26.80000	30.80	0.66	5.27	4.22	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
17.90	26.80000	30.80	0.66	5.27	4.22	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
17.80	26.80000	30.80	0.66	5.28	4.22	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
17.70	26.80000	30.80	0.66	5.28	4.21	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
17.60	26.80000	30.80	0.66	5.29	4.21	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
17.50	26.80000	30.80	0.66	5.29	4.20	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
17.40	26.80000	30.80	0.66	5.30	4.20	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
17.30	26.80000	30.80	0.66	5.30	4.20	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
17.20	26.80000	30.80	0.67	5.31	4.19	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
17.10	26.80000	30.80	0.67	5.31	4.19	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
17.00	26.80000	30.80	0.67	5.31	4.18	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
16.90	26.80000	30.80	0.67	5.32	4.18	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
16.80	26.80000	30.80	0.67	5.32	4.18	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
16.70	26.80000	30.80	0.67	5.33	4.17	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
16.60	26.80000	30.80	0.67	5.33	4.17	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
16.50	26.80000	30.80	0.67	5.34	4.16	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
16.40	26.80000	30.80	0.67	5.35	4.16	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
16.30	26.80000	30.80	0.67	5.35	4.16	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
16.20	26.80000	30.80	0.67	5.36	4.16	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
16.10	26.80000	30.80	0.67	5.37	4.16	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
16.00	26.80000	30.80	0.67	5.38	4.15	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
15.90	26.80000	30.80	0.67	5.40	4.16	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
15.80	26.80000	30.80	0.67	5.42	4.16	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
15.70	26.80000	30.80	0.67	5.45	4.16	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
15.60	26.80000	30.80	0.67	5.48	4.17	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	2.41
15.50	26.80000	30.80	0.67	5.52	4.18	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
15.40	26.80000	30.80	0.67	5.56	4.19	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08

15.30	26.80000	30.80	0.67	5.59	4.20	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
15.20	26.80000	30.80	0.67	5.62	4.21	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
15.10	26.80000	30.80	0.67	5.65	4.21	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
15.00	26.80000	30.80	0.67	5.68	4.22	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
14.90	26.80000	30.80	0.67	5.71	4.23	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
14.80	26.80000	30.80	0.67	5.74	4.24	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
14.70	26.80000	30.80	0.67	5.77	4.25	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
14.60	26.80000	30.80	0.67	5.80	4.25	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
14.50	26.80000	30.80	0.67	5.83	4.26	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
14.40	26.80000	30.80	0.67	5.85	4.27	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
14.30	26.80000	30.80	0.67	5.88	4.27	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
14.20	26.80000	30.80	0.67	5.90	4.28	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
14.10	26.80000	30.80	0.67	5.92	4.29	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
14.00	26.80000	30.80	0.67	5.94	4.29	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.08
13.90	26.80000	30.80	0.67	5.96	4.29	0.00	0.00	0.00	5.19	0.61	0.08	0.00	0.00	0.00	0.00	0.12
13.80	26.80000	30.80	0.67	5.98	4.30	0.00	0.00	0.00	5.78	0.61	0.08	0.00	0.00	0.00	0.00	0.12
13.70	26.80000	30.80	0.67	6.01	4.31	0.00	0.00	0.00	6.37	0.61	0.08	0.00	0.00	0.00	0.00	0.12
13.60	26.80000	30.80	0.67	6.04	4.31	0.00	0.00	0.00	6.96	0.61	0.08	0.00	0.00	0.00	0.00	0.12
13.50	26.80000	30.80	0.68	6.07	4.32	0.00	0.00	0.00	7.55	0.61	0.08	0.00	0.00	0.00	0.00	0.12
13.40	26.80000	30.80	0.68	6.10	4.32	0.00	0.00	0.00	8.14	0.61	0.08	0.00	0.00	0.00	0.00	0.12
13.30	26.80000	30.80	0.68	6.13	4.33	0.00	0.00	0.00	8.73	0.61	0.08	0.00	0.00	0.00	0.00	0.12
13.20	26.80000	30.80	0.68	6.16	4.34	0.00	0.00	0.00	9.32	0.61	0.08	0.00	0.00	0.00	0.00	0.12
13.10	26.80000	30.80	0.68	6.19	4.35	0.00	0.00	0.00	9.91	0.61	0.08	0.00	0.00	0.00	0.00	0.12
13.00	26.80000	30.80	0.68	6.23	4.36	0.00	0.00	0.00	10.50	0.61	0.08	0.00	0.00	0.00	0.00	0.12
12.90	26.80000	30.80	0.68	6.27	4.37	0.00	0.00	0.00	10.92	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.80	26.80000	30.80	0.68	6.30	4.38	0.00	0.00	0.00	11.34	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.70	26.80000	30.80	0.68	6.33	4.39	0.00	0.00	0.00	11.76	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.60	26.80000	30.80	0.68	6.37	4.40	0.00	0.00	0.00	12.19	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.50	26.80000	30.80	0.68	6.40	4.40	0.00	0.00	0.00	12.61	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.40	26.80000	30.80	0.68	6.44	4.41	0.00	0.00	0.00	13.03	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.30	26.80000	30.80	0.68	6.48	4.42	0.00	0.00	0.00	13.45	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.20	26.80000	30.80	0.68	6.51	4.43	0.00	0.00	0.00	13.87	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.10	26.80000	30.80	0.68	6.55	4.44	0.00	0.00	0.00	14.29	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.00	26.80000	30.80	0.68	6.59	4.45	0.00	0.00	0.00	14.71	0.55	0.08	0.00	0.00	0.00	0.00	0.39
11.90	26.80000	30.80	0.68	6.63	4.45	0.00	0.00	0.00	15.14	0.55	0.08	0.00	0.00	0.00	0.00	0.39
11.80	26.80000	30.80	0.68	6.67	4.46	0.00	0.00	0.00	15.56	0.55	0.08	0.00	0.00	0.00	0.00	0.39
11.70	26.80000	30.80	0.68	6.72	4.46	0.00	0.00	0.00	15.98	0.55	0.08	0.00	0.00	0.00	0.00	0.39
11.60	26.80000	30.80	0.68	6.76	4.46	0.00	0.00	0.00	16.40	0.55	0.08	0.00	0.00	0.00	0.00	0.39
11.50	26.80000	30.80	0.68	6.80	4.46	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
11.40	26.80000	30.80	0.68	6.84	4.46	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
11.30	26.80000	30.80	0.68	6.88	4.46	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
11.20	26.80000	30.80	0.68	6.92	4.45	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
11.10	26.80000	30.80	0.68	6.96	4.45	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
11.00	26.80000	30.80	0.68	6.99	4.45	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
10.90	26.80000	30.80	0.68	7.03	4.45	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
10.80	26.80000	30.80	0.68	7.06	4.45	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
10.70	26.80000	30.80	0.68	7.09	4.44	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
10.60	20.63600	30.80	0.68	7.13	4.44	0.00	0.00	0.00	16.40	0.47	0.08	0.00	0.00	0.00	0.00	0.39
10.50	20.63600	30.80	0.68	7.16	4.44	0.00	0.00	0.00	16.40	0.47	0.08	0.00	0.00	0.00	0.00	0.39
10.40	20.63600	30.80	0.68	7.18	4.43	0.00	0.00	0.00	16.40	0.47	0.08	0.00	0.00	0.00	0.00	0.39
10.30	20.63600	30.80	0.68	7.21	4.43	0.00	0.00	0.00	16.40	0.47	0.08	0.00	0.00	0.00	0.00	0.39
10.20	20.63600	30.80	0.68	7.23	4.42	0.00	0.00	0.00	16.40	0.47	0.08	0.00	0.00	0.00	0.00	0.39
10.10	20.63600	30.80	0.68	7.24	4.42	0.00	0.00	0.00	16.40	0.47	0.08	0.00	0.00	0.00	0.00	0.39
10.00	20.63600	30.80	0.68	7.25	4.41	0.00	0.00	0.00	16.05	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.90	20.63600	30.80	0.68	7.27	4.39	0.00	0.00	0.00	15.70	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.80	20.63600	30.80	0.68	7.28	4.38	0.00	0.00	0.00	15.35	0.57	0.08	0.00	0.00	0.00	0.00	0.99

9.70	20.63600	30.80	0.68	7.29	4.37	0.00	0.00	0.00	15.00	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.60	20.63600	30.80	0.68	7.30	4.36	0.00	0.00	0.00	14.65	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.50	20.63600	30.80	0.68	7.31	4.35	0.00	0.00	0.00	14.30	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.40	20.63600	30.80	0.68	7.32	4.34	0.00	0.00	0.00	13.95	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.30	20.63600	30.80	0.68	7.32	4.33	0.00	0.00	0.00	13.60	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.20	20.63600	30.80	0.69	7.33	4.32	0.00	0.00	0.00	13.25	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.10	20.63600	30.80	0.69	7.33	4.31	0.00	0.00	0.00	12.90	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.00	20.63600	30.80	0.69	7.34	4.29	0.00	0.00	0.00	12.55	0.57	0.08	0.00	0.00	0.00	0.00	0.99
8.90	20.63600	30.80	0.69	7.34	4.28	0.00	0.00	0.00	12.20	0.57	0.08	0.00	0.00	0.00	0.00	0.99
8.80	20.63600	30.80	0.69	7.34	4.27	0.00	0.00	0.00	11.85	0.57	0.08	0.00	0.00	0.00	0.00	0.99
8.70	20.63600	30.80	0.69	7.34	4.26	0.00	0.00	0.00	11.50	0.57	0.08	0.00	0.00	0.00	0.00	0.99
8.60	20.63600	30.80	0.69	7.33	4.26	0.00	0.00	0.00	11.15	0.57	0.08	0.00	0.00	0.00	0.00	0.99
8.50	20.63600	30.80	0.69	7.32	4.25	0.00	0.00	0.00	10.80	0.57	0.08	0.00	0.00	0.00	0.00	0.99
8.40	20.63600	30.80	0.69	7.31	4.24	0.00	0.00	0.00	10.45	0.57	0.08	0.00	0.00	0.00	0.00	0.99
8.30	20.63600	30.80	0.69	7.30	4.23	0.00	0.00	0.00	10.08	0.71	0.08	0.00	0.00	0.00	0.00	2.96
8.20	20.63600	30.80	0.69	7.28	4.22	0.00	0.00	0.00	9.71	0.71	0.08	0.00	0.00	0.00	0.00	2.96
8.10	20.63600	30.80	0.69	7.26	4.22	0.00	0.00	0.00	9.33	0.71	0.08	0.00	0.00	0.00	0.00	2.96
8.00	20.63600	30.80	0.69	7.23	4.21	0.00	0.00	0.00	8.96	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.90	20.63600	30.80	0.69	7.21	4.20	0.00	0.00	0.00	8.59	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.80	20.63600	30.80	0.69	7.19	4.19	0.00	0.00	0.00	8.22	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.70	20.63600	30.80	0.69	7.17	4.18	0.00	0.00	0.00	7.85	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.60	20.63600	30.80	0.69	7.15	4.18	0.00	0.00	0.00	7.47	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.50	20.63600	30.80	0.70	7.12	4.17	0.00	0.00	0.00	7.10	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.40	20.63600	30.80	0.70	7.10	4.16	0.00	0.00	0.00	6.73	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.30	20.63600	30.80	0.70	7.08	4.15	0.00	0.00	0.00	6.36	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.20	20.63600	30.80	0.70	7.05	4.14	0.00	0.00	0.00	5.99	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.10	20.63600	30.80	0.70	7.02	4.14	0.00	0.00	0.00	5.62	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.00	20.63600	30.80	0.70	6.99	4.13	0.00	0.00	0.00	5.24	0.71	0.08	0.00	0.00	0.00	0.00	2.96
6.90	20.63600	30.80	0.70	6.96	4.12	0.00	0.00	0.00	4.87	0.71	0.08	0.00	0.00	0.00	0.00	2.96
6.80	20.63600	30.80	0.70	6.93	4.11	0.00	0.00	0.00	4.50	0.71	0.08	0.00	0.00	0.00	0.00	2.96
6.70	20.63600	30.80	0.70	6.89	4.11	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.60	20.63600	30.80	0.70	6.86	4.10	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.50	20.63600	30.80	0.70	6.83	4.10	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.40	20.63600	30.80	0.70	6.80	4.10	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.30	20.63600	30.80	0.70	6.77	4.11	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.20	20.63600	30.80	0.70	6.75	4.12	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.10	20.63600	30.80	0.70	6.72	4.14	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.00	20.63600	30.80	0.70	6.70	4.17	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
5.90	20.63600	30.80	0.70	6.69	4.22	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
5.80	20.63600	30.80	0.70	6.68	4.25	0.00	0.00	0.00	4.45	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.70	20.63600	30.80	0.70	6.68	4.27	0.00	0.00	0.00	4.39	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.60	20.63600	30.80	0.69	6.67	4.31	0.00	0.00	0.00	4.34	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.50	26.80000	30.80	0.69	6.67	4.34	0.00	0.00	0.00	4.29	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.40	26.80000	30.80	0.69	6.67	4.33	0.00	0.00	0.00	4.23	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.30	26.80000	30.80	0.69	6.67	4.31	0.00	0.00	0.00	4.18	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.20	26.80000	30.80	0.69	6.68	4.30	0.00	0.00	0.00	4.12	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.10	26.80000	30.80	0.68	6.68	4.29	0.00	0.00	0.00	4.07	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.00	26.80000	30.80	0.68	6.68	4.28	0.00	0.00	0.00	4.02	0.58	0.08	0.00	0.00	0.00	0.00	0.39
4.90	26.80000	30.80	0.68	6.68	4.28	0.00	0.00	0.00	3.96	0.58	0.08	0.00	0.00	0.00	0.00	0.39
4.80	26.80000	30.80	0.68	6.68	4.28	0.00	0.00	0.00	3.91	0.58	0.08	0.00	0.00	0.00	0.00	0.39
4.70	26.80000	30.80	0.67	6.68	4.28	0.00	0.00	0.00	3.86	0.58	0.08	0.00	0.00	0.00	0.00	0.39
4.60	26.80000	30.80	0.67	6.69	4.29	0.00	0.00	0.00	3.80	0.58	0.08	0.00	0.00	0.00	0.00	0.39
4.50	26.80000	30.80	0.67	6.69	4.30	0.00	0.00	0.00	3.75	0.58	0.08	0.00	0.00	0.00	0.00	0.39
4.40	26.80000	30.80	0.67	6.69	4.32	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
4.30	26.80000	30.80	0.67	6.69	4.33	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
4.20	26.80000	30.80	0.67	6.69	4.35	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39

4.10	26.80000	30.80	0.67	6.69	4.37	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
4.00	26.80000	30.80	0.67	6.69	4.38	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
3.90	26.80000	30.80	0.67	6.69	4.40	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
3.80	26.80000	30.80	0.67	6.69	4.41	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
3.70	26.80000	30.80	0.67	6.69	4.42	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
3.60	26.80000	30.80	0.67	6.69	4.44	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
3.50	26.80000	30.80	0.67	6.69	4.45	0.00	0.00	0.00	3.66	0.63	0.08	0.00	0.00	0.00	0.00	0.39
3.40	26.80000	30.80	0.67	6.69	4.46	0.00	0.00	0.00	3.56	0.63	0.08	0.00	0.00	0.00	0.00	0.39
3.30	26.80000	30.80	0.66	6.68	4.48	0.00	0.00	0.00	3.47	0.63	0.08	0.00	0.00	0.00	0.00	0.39
3.20	26.80000	30.80	0.66	6.68	4.49	0.00	0.00	0.00	3.38	0.63	0.08	0.00	0.00	0.00	0.00	0.39
3.10	26.80000	30.80	0.66	6.68	4.50	0.00	0.00	0.00	3.28	0.63	0.08	0.00	0.00	0.00	0.00	0.39
3.00	26.80000	30.80	0.65	6.68	4.51	0.00	0.00	0.00	3.19	0.63	0.08	0.00	0.00	0.00	0.00	0.39
2.90	26.80000	30.80	0.65	6.68	4.52	0.00	0.00	0.00	3.09	0.63	0.08	0.00	0.00	0.00	0.00	0.39
2.80	26.80000	30.80	0.65	6.68	4.53	0.00	0.00	0.00	3.00	0.63	0.08	0.00	0.00	0.00	0.00	0.39
2.70	26.80000	30.80	0.65	6.68	4.54	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.60	26.80000	30.80	0.65	6.68	4.55	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.50	26.80000	30.80	0.65	6.68	4.56	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.40	26.80000	30.80	0.65	6.68	4.57	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.30	26.80000	30.80	0.65	6.68	4.58	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.20	26.80000	30.80	0.65	6.68	4.59	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.10	26.80000	30.80	0.65	6.68	4.60	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.00	26.80000	30.80	0.65	6.68	4.61	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.90	26.80000	30.80	0.65	6.68	4.62	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.80	26.80000	30.80	0.65	6.68	4.63	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.70	26.80000	30.80	0.65	6.68	4.64	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.60	26.80000	30.80	0.65	6.68	4.65	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.50	26.80000	30.80	0.65	6.68	4.65	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.40	26.80000	30.80	0.65	6.68	4.66	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.30	26.80000	30.80	0.65	6.68	4.67	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.20	26.80000	30.80	0.65	6.68	4.67	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.10	26.80000	30.80	0.65	6.68	4.68	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
1.00	26.80000	30.80	0.65	6.69	4.68	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.90	26.80000	30.80	0.65	6.69	4.69	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.80	26.80000	30.80	0.65	6.70	4.70	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.70	26.80000	30.80	0.65	6.70	4.71	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.60	26.80000	30.80	0.64	6.70	4.73	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.50	26.80000	30.80	0.64	6.71	4.75	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.40	26.80000	30.80	0.64	6.71	4.79	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.30	26.80000	30.80	0.64	6.71	4.85	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.20	26.80000	30.80	0.64	6.71	4.95	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.10	26.80000	30.80	0.64	6.71	5.11	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.00	26.80000	30.80	0.64	6.71	5.37	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
1	HDWTR	26.80000	30.80	0.00	369.00	1405.00	5.32	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
1	21.80	21.70	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
2	21.70	21.60	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
3	21.60	21.50	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
4	21.50	21.40	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
5	21.40	21.30	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
6	21.30	21.20	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
7	21.20	21.10	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
8	21.10	21.00	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
9	21.00	20.90	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
10	20.90	20.80	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
11	20.80	20.70	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
12	20.70	20.60	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
13	20.60	20.50	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
14	20.50	20.40	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
15	20.40	20.30	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
16	20.30	20.20	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
17	20.20	20.10	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
18	20.10	20.00	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
19	20.00	19.90	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
20	19.90	19.80	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
21	19.80	19.70	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
22	19.70	19.60	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
23	19.60	19.50	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
24	19.50	19.40	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
25	19.40	19.30	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
26	19.30	19.20	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
27	19.20	19.10	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
28	19.10	19.00	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
29	19.00	18.90	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
30	18.90	18.80	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
TOT						1.23			2848200.00	1212000.00					
AVG					0.02823		2.35	404.00			949.40				
CUM						1.23									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	21.700	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.19	0.00
2	21.600	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.19	0.00
3	21.500	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.19	0.00
4	21.400	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.19	0.00
5	21.300	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.19	0.00
6	21.200	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.19	0.00
7	21.100	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.19	0.00
8	21.000	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.19	0.00
9	20.900	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.19	0.00
10	20.800	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.19	0.00
11	20.700	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.19	0.00
12	20.600	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.19	0.00
13	20.500	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.19	0.00
14	20.400	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.19	0.00
15	20.300	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.19	0.00
16	20.200	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.19	0.00
17	20.100	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.19	0.00
18	20.000	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.19	0.00
19	19.900	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.19	0.00
20	19.800	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.19	0.00
21	19.700	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.19	0.00
22	19.600	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.19	0.00
23	19.500	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.19	0.00
24	19.400	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.19	0.00
25	19.300	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.19	0.00
26	19.200	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.19	0.00
27	19.100	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.19	0.00
28	19.000	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.19	0.00
29	18.900	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.19	0.00
30	18.800	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.08	3.08	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.56			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
1	21.700	30.80	0.66	369.00	1405.00	5.32	4.51	0.00	4.51	0.00	0.00	0.00	0.00	0.00	0.00	8.56	0.00	0.	0.84
2	21.600	30.80	0.66	369.00	1405.00	5.32	4.51	0.00	4.51	0.00	0.00	0.00	0.00	0.00	0.00	8.43	0.00	0.	0.84
3	21.500	30.80	0.66	369.00	1405.00	5.32	4.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	8.29	0.00	0.	0.84
4	21.400	30.80	0.66	369.00	1405.00	5.32	4.49	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00	8.15	0.00	0.	0.83
5	21.300	30.80	0.66	369.00	1405.00	5.32	4.48	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00	8.02	0.00	0.	0.83
6	21.200	30.80	0.66	369.00	1405.00	5.31	4.47	0.00	4.47	0.00	0.00	0.00	0.00	0.00	0.00	7.88	0.00	0.	0.82
7	21.100	30.80	0.66	369.00	1405.00	5.31	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	7.74	0.00	0.	0.82
8	21.000	30.80	0.66	369.00	1405.00	5.31	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	7.61	0.00	0.	0.82
9	20.900	30.80	0.66	369.00	1405.00	5.31	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	7.47	0.00	0.	0.81

10	20.800	30.80	0.66	369.00	1405.00	5.30	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	7.33	0.00	0.	0.81
11	20.700	30.80	0.66	369.00	1405.00	5.30	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.	0.81
12	20.600	30.80	0.66	369.00	1405.00	5.30	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	7.06	0.00	0.	0.80
13	20.500	30.80	0.66	369.00	1405.00	5.29	4.40	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	6.92	0.00	0.	0.80
14	20.400	30.80	0.66	369.00	1405.00	5.29	4.39	0.00	4.39	0.00	0.00	0.00	0.00	0.00	0.00	6.79	0.00	0.	0.80
15	20.300	30.80	0.66	369.00	1405.00	5.29	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	6.65	0.00	0.	0.79
16	20.200	30.80	0.66	369.00	1405.00	5.28	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	6.51	0.00	0.	0.79
17	20.100	30.80	0.66	369.00	1405.00	5.28	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	6.38	0.00	0.	0.79
18	20.000	30.80	0.66	369.00	1405.00	5.27	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	6.24	0.00	0.	0.78
19	19.900	30.80	0.66	369.00	1405.00	5.27	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	6.10	0.00	0.	0.78
20	19.800	30.80	0.66	369.00	1405.00	5.26	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	5.97	0.00	0.	0.78
21	19.700	30.80	0.66	369.00	1405.00	5.26	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	5.83	0.00	0.	0.77
22	19.600	30.80	0.66	369.00	1405.00	5.25	4.32	0.00	4.32	0.00	0.00	0.00	0.00	0.00	0.00	5.69	0.00	0.	0.77
23	19.500	30.80	0.66	369.00	1405.00	5.25	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	0.00	5.56	0.00	0.	0.77
24	19.400	30.80	0.66	369.00	1405.00	5.24	4.30	0.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	5.42	0.00	0.	0.77
25	19.300	30.80	0.66	369.00	1405.00	5.24	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00	0.	0.76
26	19.200	30.80	0.66	369.00	1405.00	5.23	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	5.15	0.00	0.	0.76
27	19.100	30.80	0.66	369.00	1405.00	5.23	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	5.01	0.00	0.	0.76
28	19.000	30.80	0.66	369.00	1405.00	5.23	4.27	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.	0.76
29	18.900	30.80	0.66	369.00	1405.00	5.23	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	4.74	0.00	0.	0.75
30	18.800	30.80	0.66	369.00	1405.00	5.23	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.75

FINAL REPORT
REACH NO. 2 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
31	UPR RCH	26.80000	30.80	0.66	369.00	1405.00	5.23	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.75

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
31	18.80	18.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
32	18.70	18.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
33	18.60	18.50	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
34	18.50	18.40	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
35	18.40	18.30	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
36	18.30	18.20	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
37	18.20	18.10	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
38	18.10	18.00	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
39	18.00	17.90	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
40	17.90	17.80	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
41	17.80	17.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
42	17.70	17.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
43	17.60	17.50	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
44	17.50	17.40	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
45	17.40	17.30	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033

46	17.30	17.20	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
47	17.20	17.10	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
48	17.10	17.00	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
49	17.00	16.90	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
50	16.90	16.80	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
51	16.80	16.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
52	16.70	16.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
53	16.60	16.50	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
54	16.50	16.40	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
55	16.40	16.30	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
56	16.30	16.20	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
57	16.20	16.10	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
58	16.10	16.00	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
59	16.00	15.90	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
60	15.90	15.80	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
61	15.80	15.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
62	15.70	15.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
TOT						1.11			2571839.75	1094400.00					
AVG					0.03335		2.35	342.00			803.70				
CUM						2.34									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
31	18.700	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
32	18.600	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
33	18.500	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
34	18.400	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
35	18.300	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
36	18.200	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
37	18.100	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
38	18.000	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
39	17.900	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
40	17.800	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
41	17.700	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
42	17.600	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
43	17.500	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
44	17.400	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
45	17.300	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
46	17.200	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
47	17.100	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
48	17.000	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
49	16.900	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
50	16.800	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
51	16.700	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
52	16.600	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
53	16.500	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
54	16.400	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
55	16.300	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
56	16.200	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
57	16.100	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00

58	16.000	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
59	15.900	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
60	15.800	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
61	15.700	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
62	15.600	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.49	0.05	0.00	0.00	0.00	0.00	0.00	1.22			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
31	18.700	30.80	0.66	369.00	1405.00	5.23	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.75
32	18.600	30.80	0.66	369.00	1405.00	5.24	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.75
33	18.500	30.80	0.66	369.00	1405.00	5.24	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.75
34	18.400	30.80	0.66	369.00	1405.00	5.25	4.24	0.00	4.24	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.75
35	18.300	30.80	0.66	369.00	1405.00	5.25	4.24	0.00	4.24	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.75
36	18.200	30.80	0.66	369.00	1405.00	5.26	4.23	0.00	4.23	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.75
37	18.100	30.80	0.66	369.00	1405.00	5.26	4.23	0.00	4.23	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.75
38	18.000	30.80	0.66	369.00	1405.00	5.27	4.22	0.00	4.22	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
39	17.900	30.80	0.66	369.00	1405.00	5.27	4.22	0.00	4.22	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
40	17.800	30.80	0.66	369.00	1405.00	5.28	4.22	0.00	4.22	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
41	17.700	30.80	0.66	369.00	1405.00	5.28	4.21	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
42	17.600	30.80	0.66	369.00	1405.00	5.29	4.21	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
43	17.500	30.80	0.66	369.00	1405.00	5.29	4.20	0.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
44	17.400	30.80	0.66	369.00	1405.00	5.30	4.20	0.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
45	17.300	30.80	0.66	369.00	1405.00	5.30	4.20	0.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
46	17.200	30.80	0.67	369.00	1405.00	5.31	4.19	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
47	17.100	30.80	0.67	369.00	1405.00	5.31	4.19	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
48	17.000	30.80	0.67	369.00	1405.00	5.31	4.18	0.00	4.18	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
49	16.900	30.80	0.67	369.00	1405.00	5.32	4.18	0.00	4.18	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.73
50	16.800	30.80	0.67	369.00	1405.00	5.32	4.18	0.00	4.18	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.73
51	16.700	30.80	0.67	369.00	1405.00	5.33	4.17	0.00	4.17	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.73
52	16.600	30.80	0.67	369.00	1405.00	5.33	4.17	0.00	4.17	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.73
53	16.500	30.80	0.67	369.00	1405.00	5.34	4.16	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.73
54	16.400	30.80	0.67	369.00	1405.00	5.35	4.16	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.73
55	16.300	30.80	0.67	369.00	1405.00	5.35	4.16	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.73
56	16.200	30.80	0.67	369.00	1405.00	5.36	4.16	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.73
57	16.100	30.80	0.67	369.00	1405.00	5.37	4.16	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.73
58	16.000	30.80	0.67	369.00	1405.00	5.38	4.15	0.00	4.15	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.73
59	15.900	30.80	0.67	369.00	1405.00	5.40	4.16	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
60	15.800	30.80	0.67	369.00	1405.00	5.42	4.16	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
61	15.700	30.80	0.67	369.00	1405.00	5.45	4.16	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.74
62	15.600	30.80	0.67	369.00	1405.00	5.48	4.17	0.00	4.17	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.75

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
63	UPR RCH	26.80000	30.80	0.67	369.00	1405.00	5.48	4.17	0.00	4.17	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.75

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
63	15.60	15.50	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
64	15.50	15.40	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
65	15.40	15.30	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
66	15.30	15.20	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
67	15.20	15.10	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
68	15.10	15.00	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
69	15.00	14.90	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
70	14.90	14.80	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
71	14.80	14.70	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
72	14.70	14.60	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
73	14.60	14.50	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
74	14.50	14.40	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
75	14.40	14.30	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
76	14.30	14.20	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
77	14.20	14.10	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
78	14.10	14.00	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
TOT						0.73			1696640.00	704000.00					
AVG					0.02527		2.41	440.00			1060.40				
CUM						3.07									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
63	15.500	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
64	15.400	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
65	15.300	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
66	15.200	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
67	15.100	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
68	15.000	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
69	14.900	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
70	14.800	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
71	14.700	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
72	14.600	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00

73	14.500	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
74	14.400	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
75	14.300	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
76	14.200	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
77	14.100	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
78	14.000	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.43	0.05	0.00	0.00	0.00	0.00	0.00	0.04			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
63	15.500	30.80	0.67	369.00	1405.00	5.52	4.18	0.00	4.18	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.75
64	15.400	30.80	0.67	369.00	1405.00	5.56	4.19	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.76
65	15.300	30.80	0.67	369.00	1405.00	5.59	4.20	0.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.76
66	15.200	30.80	0.67	369.00	1405.00	5.62	4.21	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
67	15.100	30.80	0.67	369.00	1405.00	5.65	4.21	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.78
68	15.000	30.80	0.67	369.00	1405.00	5.68	4.22	0.00	4.22	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.78
69	14.900	30.80	0.67	369.00	1405.00	5.71	4.23	0.00	4.23	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.79
70	14.800	30.80	0.67	369.00	1405.00	5.74	4.24	0.00	4.24	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.79
71	14.700	30.80	0.67	369.00	1405.00	5.77	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.80
72	14.600	30.80	0.67	369.00	1405.00	5.80	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.80
73	14.500	30.80	0.67	369.00	1405.00	5.83	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.80
74	14.400	30.80	0.67	369.00	1405.00	5.85	4.27	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.81
75	14.300	30.80	0.67	369.00	1405.00	5.88	4.27	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.81
76	14.200	30.80	0.67	369.00	1405.00	5.90	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.82
77	14.100	30.80	0.67	369.00	1405.00	5.92	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.82
78	14.000	30.80	0.67	369.00	1405.00	5.94	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.82

FINAL REPORT
REACH NO. 4 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
79	UPR RCH	26.80000	30.80	0.67	369.00	1405.00	5.94	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.82

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
79	14.00	13.90	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
80	13.90	13.80	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
81	13.80	13.70	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041

82	13.70	13.60	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
83	13.60	13.50	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
84	13.50	13.40	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
85	13.40	13.30	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
86	13.30	13.20	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
87	13.20	13.10	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
88	13.10	13.00	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
TOT						0.28			659490.00	267000.00					
AVG					0.04064		2.47	267.00			659.49				
CUM						3.36									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
79	13.900	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.19	0.00
80	13.800	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.19	0.00
81	13.700	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.19	0.00
82	13.600	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.19	0.00
83	13.500	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.19	0.00
84	13.400	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.19	0.00
85	13.300	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.19	0.00
86	13.200	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.19	0.00
87	13.100	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.19	0.00
88	13.000	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.06			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
79	13.900	30.80	0.67	369.00	1405.00	5.96	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	5.19	0.00	0.	0.82
80	13.800	30.80	0.67	369.00	1405.00	5.98	4.30	0.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	5.78	0.00	0.	0.83
81	13.700	30.80	0.67	369.00	1405.00	6.01	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	0.00	6.37	0.00	0.	0.83
82	13.600	30.80	0.67	369.00	1405.00	6.04	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	0.00	6.96	0.00	0.	0.83
83	13.500	30.80	0.68	369.00	1405.00	6.07	4.32	0.00	4.32	0.00	0.00	0.00	0.00	0.00	0.00	7.55	0.00	0.	0.83
84	13.400	30.80	0.68	369.00	1405.00	6.10	4.32	0.00	4.32	0.00	0.00	0.00	0.00	0.00	0.00	8.14	0.00	0.	0.83
85	13.300	30.80	0.68	369.00	1405.00	6.13	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	8.73	0.00	0.	0.83
86	13.200	30.80	0.68	369.00	1405.00	6.16	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	9.32	0.00	0.	0.83
87	13.100	30.80	0.68	369.00	1405.00	6.19	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	9.91	0.00	0.	0.83
88	13.000	30.80	0.68	369.00	1405.00	6.23	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	10.50	0.00	0.	0.83

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
89	UPR RCH	26.80000	30.80	0.68	369.00	1405.00	6.23	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	10.50	0.00	0.83

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
89	13.00	12.90	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
90	12.90	12.80	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
91	12.80	12.70	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
92	12.70	12.60	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
93	12.60	12.50	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
94	12.50	12.40	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
95	12.40	12.30	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
96	12.30	12.20	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
97	12.20	12.10	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
98	12.10	12.00	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
99	12.00	11.90	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
100	11.90	11.80	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
101	11.80	11.70	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
102	11.70	11.60	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
TOT						0.50			1164324.00	467600.00					
AVG					0.03222		2.49	334.00			831.66				
CUM						3.86									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
89	12.900	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.19	0.00
90	12.800	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.19	0.00
91	12.700	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.19	0.00
92	12.600	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.19	0.00
93	12.500	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.19	0.00
94	12.400	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.19	0.00
95	12.300	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.19	0.00
96	12.200	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.19	0.00
97	12.100	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.19	0.00
98	12.000	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.19	0.00
99	11.900	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.19	0.00
100	11.800	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.19	0.00

101	11.700	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.19	0.00
102	11.600	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.45	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
89	12.900	30.80	0.68	369.00	1405.00	6.27	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	10.92	0.00	0.	0.82
90	12.800	30.80	0.68	369.00	1405.00	6.30	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	11.34	0.00	0.	0.82
91	12.700	30.80	0.68	369.00	1405.00	6.33	4.39	0.00	4.39	0.00	0.00	0.00	0.00	0.00	0.00	11.76	0.00	0.	0.81
92	12.600	30.80	0.68	369.00	1405.00	6.37	4.40	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	12.19	0.00	0.	0.81
93	12.500	30.80	0.68	369.00	1405.00	6.40	4.40	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	12.61	0.00	0.	0.80
94	12.400	30.80	0.68	369.00	1405.00	6.44	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	13.03	0.00	0.	0.80
95	12.300	30.80	0.68	369.00	1405.00	6.48	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	13.45	0.00	0.	0.79
96	12.200	30.80	0.68	369.00	1405.00	6.51	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	13.87	0.00	0.	0.79
97	12.100	30.80	0.68	369.00	1405.00	6.55	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	14.29	0.00	0.	0.78
98	12.000	30.80	0.68	369.00	1405.00	6.59	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	14.71	0.00	0.	0.78
99	11.900	30.80	0.68	369.00	1404.99	6.63	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	15.14	0.00	0.	0.77
100	11.800	30.80	0.68	369.00	1404.99	6.67	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	15.56	0.00	0.	0.76
101	11.700	30.80	0.68	369.00	1404.99	6.72	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	15.98	0.00	0.	0.76
102	11.600	30.80	0.68	369.00	1404.99	6.76	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.75

FINAL REPORT LA-QUAL model for Bayou Des Allemands (020301)
REACH NO. 6 Bayou Des Allemands SUMMER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
103	UPR RCH	26.80000	30.80	0.68	369.00	1404.99	6.76	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.75
112	WSTLD	-6.16400	30.80	0.68	369.00	1404.99	7.13	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.70

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
103	11.60	11.50	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
104	11.50	11.40	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
105	11.40	11.30	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
106	11.30	11.20	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
107	11.20	11.10	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
108	11.10	11.00	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
109	11.00	10.90	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
110	10.90	10.80	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027

111	10.80	10.70	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
112	10.70	10.60	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
113	10.60	10.50	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
114	10.50	10.40	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
115	10.40	10.30	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
116	10.30	10.20	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
117	10.20	10.10	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
TOT						0.72			1492500.00	597000.00					
AVG					0.02406		2.50	398.00			995.00				
CUM						4.58									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
103	11.500	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
104	11.400	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
105	11.300	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
106	11.200	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
107	11.100	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
108	11.000	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
109	10.900	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
110	10.800	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
111	10.700	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
112	10.600	7.43	0.47	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
113	10.500	7.43	0.47	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
114	10.400	7.43	0.47	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
115	10.300	7.43	0.47	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
116	10.200	7.43	0.47	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
117	10.100	7.43	0.47	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.41	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
103	11.500	30.80	0.68	369.00	1404.99	6.80	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.75
104	11.400	30.80	0.68	369.00	1404.99	6.84	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.74
105	11.300	30.80	0.68	369.00	1404.99	6.88	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.74
106	11.200	30.80	0.68	369.00	1404.99	6.92	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.73
107	11.100	30.80	0.68	369.00	1404.99	6.96	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.72
108	11.000	30.80	0.68	369.00	1404.99	6.99	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.72
109	10.900	30.80	0.68	369.00	1404.99	7.03	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.71
110	10.800	30.80	0.68	369.00	1404.99	7.06	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.71
111	10.700	30.80	0.68	369.00	1404.99	7.09	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.70
112	10.600	30.80	0.68	369.00	1404.99	7.13	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.70
113	10.500	30.80	0.68	369.00	1404.99	7.16	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.69

114	10.400	30.80	0.68	369.00	1404.99	7.18	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.69
115	10.300	30.80	0.68	369.00	1404.99	7.21	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.68
116	10.200	30.80	0.68	369.00	1404.99	7.23	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.68
117	10.100	30.80	0.68	369.00	1404.99	7.24	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.68

FINAL REPORT
REACH NO. 7 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
118	UPR RCH	20.63600	30.80	0.68	369.00	1404.99	7.24	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.68

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
118	10.10	10.00	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
119	10.00	9.90	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
120	9.90	9.80	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
121	9.80	9.70	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
122	9.70	9.60	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
123	9.60	9.50	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
124	9.50	9.40	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
125	9.40	9.30	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
126	9.30	9.20	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
127	9.20	9.10	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
128	9.10	9.00	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
129	9.00	8.90	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
130	8.90	8.80	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
131	8.80	8.70	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
132	8.70	8.60	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
133	8.60	8.50	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
134	8.50	8.40	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
TOT						0.55			981750.00	392700.00					
AVG					0.03573		2.50	231.00			577.50				
CUM						5.13									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
118	10.000	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.19	0.00
119	9.900	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.19	0.00
120	9.800	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.19	0.00

121	9.700	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.00	0.00	0.19	0.00
122	9.600	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.19	0.00
123	9.500	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.19	0.00
124	9.400	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.19	0.00
125	9.300	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.19	0.00
126	9.200	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.19	0.00
127	9.100	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.19	0.00
128	9.000	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.19	0.00
129	8.900	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.19	0.00
130	8.800	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.19	0.00
131	8.700	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.19	0.00
132	8.600	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.19	0.00
133	8.500	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.19	0.00
134	8.400	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.47	0.05	0.00	0.00	0.00	0.00	0.00	0.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
118	10.000	30.80	0.68	369.00	1404.99	7.25	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	16.05	0.00	0.	0.67
119	9.900	30.80	0.68	369.00	1404.99	7.27	4.39	0.00	4.39	0.00	0.00	0.00	0.00	0.00	0.00	15.70	0.00	0.	0.67
120	9.800	30.80	0.68	369.00	1404.99	7.28	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	15.35	0.00	0.	0.67
121	9.700	30.80	0.68	369.00	1405.00	7.29	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.	0.66
122	9.600	30.80	0.68	369.00	1405.00	7.30	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	14.65	0.00	0.	0.66
123	9.500	30.80	0.68	369.00	1405.00	7.31	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	14.30	0.00	0.	0.65
124	9.400	30.80	0.68	369.00	1405.00	7.32	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	13.95	0.00	0.	0.65
125	9.300	30.80	0.68	369.00	1405.00	7.32	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	13.60	0.00	0.	0.65
126	9.200	30.80	0.69	369.00	1404.99	7.33	4.32	0.00	4.32	0.00	0.00	0.00	0.00	0.00	0.00	13.25	0.00	0.	0.64
127	9.100	30.80	0.69	369.00	1404.99	7.33	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	0.00	12.90	0.00	0.	0.64
128	9.000	30.80	0.69	369.00	1404.99	7.34	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	12.55	0.00	0.	0.64
129	8.900	30.80	0.69	369.00	1405.00	7.34	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	12.20	0.00	0.	0.63
130	8.800	30.80	0.69	369.00	1405.00	7.34	4.27	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	11.85	0.00	0.	0.63
131	8.700	30.80	0.69	369.00	1404.99	7.34	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	11.50	0.00	0.	0.63
132	8.600	30.80	0.69	369.00	1404.99	7.33	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	11.15	0.00	0.	0.62
133	8.500	30.80	0.69	369.00	1404.99	7.32	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.	0.62
134	8.400	30.80	0.69	369.00	1404.99	7.31	4.24	0.00	4.24	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00	0.	0.62

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
135	UPR RCH	20.63600	30.80	0.69	369.00	1404.99	7.31	4.24	0.00	4.24	0.00	0.00	0.00	0.00	0.00	10.45	0.00	0.62

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
135	8.40	8.30	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
136	8.30	8.20	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
137	8.20	8.10	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
138	8.10	8.00	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
139	8.00	7.90	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
140	7.90	7.80	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
141	7.80	7.70	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
142	7.70	7.60	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
143	7.60	7.50	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
144	7.50	7.40	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
145	7.40	7.30	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
146	7.30	7.20	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
147	7.20	7.10	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
148	7.10	7.00	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
149	7.00	6.90	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
150	6.90	6.80	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
TOT						0.38			673920.00	288000.00					
AVG					0.04899		2.34	180.00			421.20				
CUM						5.51									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
135	8.300	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.19	0.00
136	8.200	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.19	0.00
137	8.100	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.19	0.00
138	8.000	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.19	0.00
139	7.900	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.19	0.00
140	7.800	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.19	0.00
141	7.700	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.19	0.00
142	7.600	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.19	0.00
143	7.500	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.19	0.00
144	7.400	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.19	0.00

145	7.300	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.19	0.00
146	7.200	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.19	0.00
147	7.100	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.19	0.00
148	7.000	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.19	0.00
149	6.900	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.19	0.00
150	6.800	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.58	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
135	8.300	30.80	0.69	369.00	1404.99	7.30	4.23	0.00	4.23	0.00	0.00	0.00	0.00	0.00	0.00	10.08	0.00	0.	0.62
136	8.200	30.80	0.69	369.00	1404.99	7.28	4.22	0.00	4.22	0.00	0.00	0.00	0.00	0.00	0.00	9.71	0.00	0.	0.61
137	8.100	30.80	0.69	369.00	1404.99	7.26	4.22	0.00	4.22	0.00	0.00	0.00	0.00	0.00	0.00	9.33	0.00	0.	0.61
138	8.000	30.80	0.69	369.00	1404.99	7.23	4.21	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	8.96	0.00	0.	0.61
139	7.900	30.80	0.69	369.00	1404.99	7.21	4.20	0.00	4.20	0.00	0.00	0.00	0.00	0.00	0.00	8.59	0.00	0.	0.61
140	7.800	30.80	0.69	368.99	1404.98	7.19	4.19	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	8.22	0.00	0.	0.60
141	7.700	30.80	0.69	368.99	1404.98	7.17	4.18	0.00	4.18	0.00	0.00	0.00	0.00	0.00	0.00	7.85	0.00	0.	0.60
142	7.600	30.80	0.69	368.99	1404.97	7.15	4.18	0.00	4.18	0.00	0.00	0.00	0.00	0.00	0.00	7.47	0.00	0.	0.60
143	7.500	30.80	0.70	368.99	1404.96	7.12	4.17	0.00	4.17	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	0.	0.60
144	7.400	30.80	0.70	368.98	1404.94	7.10	4.16	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	6.73	0.00	0.	0.59
145	7.300	30.80	0.70	368.97	1404.91	7.08	4.15	0.00	4.15	0.00	0.00	0.00	0.00	0.00	0.00	6.36	0.00	0.	0.59
146	7.200	30.80	0.70	368.96	1404.88	7.05	4.14	0.00	4.14	0.00	0.00	0.00	0.00	0.00	0.00	5.99	0.00	0.	0.59
147	7.100	30.80	0.70	368.93	1404.82	7.02	4.14	0.00	4.14	0.00	0.00	0.00	0.00	0.00	0.00	5.62	0.00	0.	0.59
148	7.000	30.80	0.70	368.90	1404.73	6.99	4.13	0.00	4.13	0.00	0.00	0.00	0.00	0.00	0.00	5.24	0.00	0.	0.59
149	6.900	30.80	0.70	368.86	1404.60	6.96	4.12	0.00	4.12	0.00	0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.	0.59
150	6.800	30.80	0.70	368.79	1404.41	6.93	4.11	0.00	4.11	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.59

FINAL REPORT
REACH NO. 9 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
151	UPR RCH	20.63600	30.80	0.70	368.79	1404.41	6.93	4.11	0.00	4.11	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.59

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
151	6.80	6.70	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
152	6.70	6.60	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
153	6.60	6.50	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036

154	6.50	6.40	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
155	6.40	6.30	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
156	6.30	6.20	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
157	6.20	6.10	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
158	6.10	6.00	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
159	6.00	5.90	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
TOT						0.29			515592.00	237600.00					
AVG					0.03602		2.17	264.00			572.88				
CUM						5.80									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
151	6.700	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
152	6.600	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
153	6.500	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
154	6.400	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
155	6.300	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
156	6.200	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
157	6.100	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
158	6.000	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
159	5.900	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.54	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
151	6.700	30.80	0.70	368.70	1404.17	6.89	4.11	0.00	4.11	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.59
152	6.600	30.80	0.70	368.60	1403.88	6.86	4.10	0.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.59
153	6.500	30.80	0.70	368.45	1403.48	6.83	4.10	0.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.59
154	6.400	30.80	0.70	368.26	1402.93	6.80	4.10	0.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.60
155	6.300	30.80	0.70	367.99	1402.19	6.77	4.11	0.00	4.11	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.61
156	6.200	30.80	0.70	367.63	1401.18	6.75	4.12	0.00	4.12	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.63
157	6.100	30.80	0.70	367.13	1399.81	6.72	4.14	0.00	4.14	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.65
158	6.000	30.80	0.70	366.46	1397.94	6.70	4.17	0.00	4.17	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.69
159	5.900	30.80	0.70	365.55	1395.40	6.69	4.22	0.00	4.22	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.74

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
160	UPR RCH	20.63600	30.80	0.70	365.55	1395.40	6.69	4.22	0.00	4.22	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.74
163	WSTLD	6.16400	27.88	0.71	346.00	1341.00	6.25	6.50	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
160	5.90	5.80	20.63600	0.0	0.00990	0.12	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.010
161	5.80	5.70	20.63600	0.0	0.00990	0.12	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.010
162	5.70	5.60	20.63600	0.0	0.00990	0.12	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.010
163	5.60	5.50	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
164	5.50	5.40	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
165	5.40	5.30	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
166	5.30	5.20	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
167	5.20	5.10	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
168	5.10	5.00	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
169	5.00	4.90	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
170	4.90	4.80	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
171	4.80	4.70	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
172	4.70	4.60	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
173	4.60	4.50	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
TOT						1.34			2917964.00	1481200.00					
AVG					0.01208		1.97	1058.00			2084.26				
CUM						7.14									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
160	5.800	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
161	5.700	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.19	0.00
162	5.600	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.19	0.00
163	5.500	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.19	0.00
164	5.400	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.19	0.00
165	5.300	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.19	0.00
166	5.200	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.19	0.00
167	5.100	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.19	0.00
168	5.000	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.19	0.00
169	4.900	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.19	0.00
170	4.800	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.19	0.00

171	4.700	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.19	0.00
172	4.600	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
173	4.500	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.47	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
160	5.800	30.80	0.70	365.01	1393.91	6.68	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.45	0.00	0.	0.77
161	5.700	30.80	0.70	364.62	1392.81	6.68	4.27	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	4.39	0.00	0.	0.79
162	5.600	30.80	0.69	364.19	1391.61	6.67	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	0.00	4.34	0.00	0.	0.81
163	5.500	30.80	0.69	363.71	1390.28	6.67	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	4.29	0.00	0.	0.83
164	5.400	30.80	0.69	363.71	1390.28	6.67	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	4.23	0.00	0.	0.84
165	5.300	30.80	0.69	363.71	1390.28	6.67	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	0.00	4.18	0.00	0.	0.85
166	5.200	30.80	0.69	363.71	1390.28	6.68	4.30	0.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	4.12	0.00	0.	0.85
167	5.100	30.80	0.68	363.71	1390.28	6.68	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	4.07	0.00	0.	0.86
168	5.000	30.80	0.68	363.71	1390.28	6.68	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	4.02	0.00	0.	0.87
169	4.900	30.80	0.68	363.71	1390.28	6.68	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	3.96	0.00	0.	0.88
170	4.800	30.80	0.68	363.71	1390.28	6.68	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	3.91	0.00	0.	0.89
171	4.700	30.80	0.67	363.71	1390.28	6.68	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	3.86	0.00	0.	0.90
172	4.600	30.80	0.67	363.71	1390.28	6.69	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	3.80	0.00	0.	0.90
173	4.500	30.80	0.67	363.71	1390.28	6.69	4.30	0.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.91

FINAL REPORT LA-QUAL model for Bayou Des Allemands (020301)
REACH NO. 11 Bayou Des Allemands SUMMER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
174	UPR RCH	26.80000	30.80	0.67	363.71	1390.28	6.69	4.30	0.00	4.30	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.91

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
174	4.50	4.40	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
175	4.40	4.30	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
176	4.30	4.20	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
177	4.20	4.10	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
178	4.10	4.00	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
179	4.00	3.90	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
180	3.90	3.80	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
181	3.80	3.70	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012

182	3.70	3.60	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012								
TOT						0.84			1938816.00	1101600.00													
AVG					0.01244		1.76	1224.00			2154.24												
CUM						7.98																	

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
174	4.400	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
175	4.300	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
176	4.200	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
177	4.100	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
178	4.000	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
179	3.900	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
180	3.800	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
181	3.700	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
182	3.600	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.53	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
174	4.400	30.80	0.67	363.71	1390.28	6.69	4.32	0.00	4.32	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.92
175	4.300	30.80	0.67	363.71	1390.29	6.69	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.93
176	4.200	30.80	0.67	363.71	1390.29	6.69	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.94
177	4.100	30.80	0.67	363.71	1390.29	6.69	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.94
178	4.000	30.80	0.67	363.71	1390.29	6.69	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.95
179	3.900	30.80	0.67	363.71	1390.29	6.69	4.40	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.96
180	3.800	30.80	0.67	363.71	1390.29	6.69	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.96
181	3.700	30.80	0.67	363.71	1390.29	6.69	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.97
182	3.600	30.80	0.67	363.71	1390.29	6.69	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.97

FINAL REPORT
REACH NO. 12 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
183	UPR RCH	26.80000	30.80	0.67	363.71	1390.29	6.69	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.97

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
183	3.60	3.50	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
184	3.50	3.40	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
185	3.40	3.30	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
186	3.30	3.20	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
187	3.20	3.10	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
188	3.10	3.00	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
189	3.00	2.90	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
190	2.90	2.80	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
TOT						0.63			1462480.00	808000.00					
AVG					0.01466		1.81	1010.00			1828.10				
CUM						8.61									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
183	3.500	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.19	0.00
184	3.400	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.19	0.00
185	3.300	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.19	0.00
186	3.200	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.19	0.00
187	3.100	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.19	0.00
188	3.000	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.19	0.00
189	2.900	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
190	2.800	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.51	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
183	3.500	30.80	0.67	363.71	1390.29	6.69	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	3.66	0.00	0.	0.98
184	3.400	30.80	0.67	363.71	1390.29	6.69	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	3.56	0.00	0.	0.98
185	3.300	30.80	0.66	363.71	1390.29	6.68	4.48	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00	3.47	0.00	0.	0.99
186	3.200	30.80	0.66	363.71	1390.29	6.68	4.49	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00	3.38	0.00	0.	0.99
187	3.100	30.80	0.66	363.71	1390.29	6.68	4.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	3.28	0.00	0.	1.00
188	3.000	30.80	0.65	363.71	1390.29	6.68	4.51	0.00	4.51	0.00	0.00	0.00	0.00	0.00	0.00	3.19	0.00	0.	1.00
189	2.900	30.80	0.65	363.71	1390.29	6.68	4.52	0.00	4.52	0.00	0.00	0.00	0.00	0.00	0.00	3.09	0.00	0.	1.00
190	2.800	30.80	0.65	363.71	1390.29	6.68	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.01

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
191	UPR RCH	26.80000	30.80	0.65	363.71	1390.29	6.68	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	3.00	0.00	1.01

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
191	2.80	2.70	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
192	2.70	2.60	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
193	2.60	2.50	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
194	2.50	2.40	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
195	2.40	2.30	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
196	2.30	2.20	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
197	2.20	2.10	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
198	2.10	2.00	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
199	2.00	1.90	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
200	1.90	1.80	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
201	1.80	1.70	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
202	1.70	1.60	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
203	1.60	1.50	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
204	1.50	1.40	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
205	1.40	1.30	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
206	1.30	1.20	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
TOT						0.64			1480000.00	800000.00					
AVG					0.02897		1.85	500.00			925.00				
CUM						9.25									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
191	2.700	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
192	2.600	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
193	2.500	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
194	2.400	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
195	2.300	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
196	2.200	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
197	2.100	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
198	2.000	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
199	1.900	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
200	1.800	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00

201	1.700	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
202	1.600	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
203	1.500	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
204	1.400	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
205	1.300	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
206	1.200	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
191	2.700	30.80	0.65	363.71	1390.29	6.68	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.01
192	2.600	30.80	0.65	363.71	1390.28	6.68	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.01
193	2.500	30.80	0.65	363.71	1390.28	6.68	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.01
194	2.400	30.80	0.65	363.71	1390.28	6.68	4.57	0.00	4.57	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.02
195	2.300	30.80	0.65	363.71	1390.27	6.68	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.02
196	2.200	30.80	0.65	363.71	1390.27	6.68	4.59	0.00	4.59	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.02
197	2.100	30.80	0.65	363.70	1390.26	6.68	4.60	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.03
198	2.000	30.80	0.65	363.70	1390.25	6.68	4.61	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.03
199	1.900	30.80	0.65	363.70	1390.24	6.68	4.62	0.00	4.62	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.03
200	1.800	30.80	0.65	363.69	1390.22	6.68	4.63	0.00	4.63	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.03
201	1.700	30.80	0.65	363.69	1390.20	6.68	4.64	0.00	4.64	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.04
202	1.600	30.80	0.65	363.68	1390.18	6.68	4.65	0.00	4.65	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.04
203	1.500	30.80	0.65	363.67	1390.15	6.68	4.65	0.00	4.65	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.04
204	1.400	30.80	0.65	363.66	1390.10	6.68	4.66	0.00	4.66	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.04
205	1.300	30.80	0.65	363.64	1390.05	6.68	4.67	0.00	4.67	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.04
206	1.200	30.80	0.65	363.62	1389.98	6.68	4.67	0.00	4.67	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.05

FINAL REPORT
REACH NO. 14 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
207	UPR RCH	26.80000	30.80	0.65	363.62	1389.98	6.68	4.67	0.00	4.67	0.00	0.00	0.00	0.00	0.00	3.00	0.00	1.05

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
207	1.20	1.10	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
208	1.10	1.00	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
209	1.00	0.90	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068

210	0.90	0.80	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
211	0.80	0.70	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
212	0.70	0.60	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
213	0.60	0.50	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
214	0.50	0.40	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
215	0.40	0.30	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
216	0.30	0.20	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
217	0.20	0.10	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
218	0.10	0.00	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
TOT						0.20			472860.00	255600.00					
AVG					0.06801		1.85	213.00			394.05				
CUM						9.45									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
207	1.100	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
208	1.000	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
209	0.900	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
210	0.800	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
211	0.700	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
212	0.600	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
213	0.500	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
214	0.400	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
215	0.300	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
216	0.200	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
217	0.100	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
218	0.000	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.88	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
207	1.100	30.80	0.65	363.58	1389.85	6.68	4.68	0.00	4.68	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.05
208	1.000	30.80	0.65	363.49	1389.55	6.69	4.68	0.00	4.68	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.05
209	0.900	30.80	0.65	363.34	1389.04	6.69	4.69	0.00	4.69	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.05
210	0.800	30.80	0.65	363.09	1388.18	6.70	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.05
211	0.700	30.80	0.65	362.67	1386.74	6.70	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.06
212	0.600	30.80	0.64	361.96	1384.33	6.70	4.73	0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.06
213	0.500	30.80	0.64	360.78	1380.27	6.71	4.75	0.00	4.75	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.07
214	0.400	30.80	0.64	358.78	1373.46	6.71	4.79	0.00	4.79	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.09
215	0.300	30.80	0.64	355.42	1362.00	6.71	4.85	0.00	4.85	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.11
216	0.200	30.80	0.64	349.78	1342.76	6.71	4.95	0.00	4.95	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.15
217	0.100	30.80	0.64	340.30	1310.44	6.71	5.11	0.00	5.11	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.22
218	0.000	30.80	0.64	324.38	1256.13	6.71	5.37	0.00	5.37	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.33

STREAM SUMMARY

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO NATURAL CONDITIONS (no man made loads)

TRAVEL TIME	=	9.45	DAYS		
MAXIMUM EFFLUENT	=	23.00	PERCENT		
FLOW	=	20.63600	TO	26.80000	m^3/s
DISPERSION	=	10.0000	TO	10.0000	m^2/s
VELOCITY	=	0.00990	TO	0.06801	m/s
DEPTH	=	1.76	TO	2.50	m
WIDTH	=	180.00	TO	******	m
BOD DECAY	=	0.08	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.08	TO	3.08	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.47	TO	1.08	per day
BOD SETTLING	=	0.00	TO	0.00	per day
ORG-N DECAY	=	0.00	TO	0.00	per day
ORG-N SETTLING	=	0.00	TO	0.00	per day
TEMPERATURE	=	30.80	TO	30.80	deg C
DISSOLVED OXYGEN	=	5.23	TO	7.34	mg/L

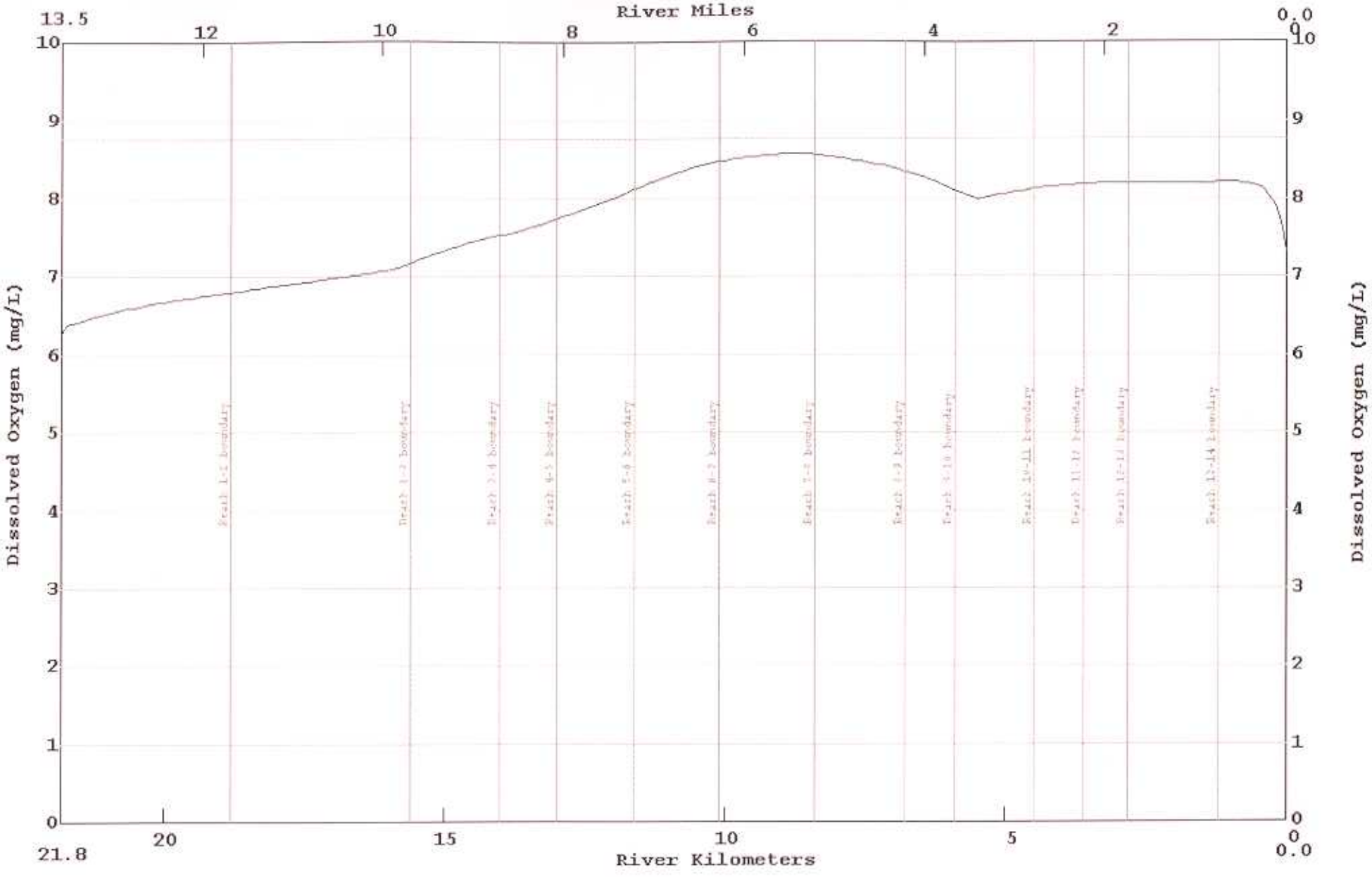
LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO NATURAL CONDITIONS (no man made loads)

INPUT/OUTPUT LOADING SUMMARY

	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER INFLOW	26.800	12318.6	10558.8	0.0	0.0	0.0	0.0	0.0	0.0	1991.3
INCREMENTAL INFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	6.164	3328.6	3461.7	0.0	0.0	0.0	0.0	0.0	0.0	703.0
WITHDRAWLS	-6.164	-3795.0	-2364.3	0.0	0.0	0.0	0.0	0.0	0.0	-371.5
OUTFLOW THRU LOWER BNDRY	-26.800	-15541.7	-12434.1	0.0	0.0	0.0	0.0	0.0	0.0	-3074.2
DISPERSION THRU LOWER BNDRY		-13.3	1498.7	0.0	0.0	0.0	0.0	0.0	0.0	628.8
NON-POINT INPUT		0.0	6748.0	0.0	0.0					3340.0
NATURAL REAERATION		13950.9								
DAM REAERATION		0.0								
BACKGROUND SOD		-10575.5								
BOD#1 DECAY		-7468.7	-7468.7							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY			0.0							
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY				0.0						
ORG-N DECAY		0.0			0.0	0.0				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		0.0				0.0	0.0			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		11013.6				0.0	0.0	0.0	0.0	
ALGAE RESPIRATION		0.0				0.0		0.0	0.0	
ALGAE SETTLING		0.0							0.0	
MACRO PHOTOSYNTHESIS		0.0				0.0	0.0	0.0		
NCM DECAY		-3217.5								-3217.5
NCM SETTLING		0.0								0.0
TOTAL INPUTS	32.964	40611.6	22267.1	0.0	0.0	0.0	0.0	0.0	0.0	6663.1
TOTAL OUTPUTS	-32.964	-40611.6	-22267.1	0.0	0.0	0.0	0.0	0.0	0.0	-6663.2
NET CONVERGENCE ERROR	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

.....EXECUTION COMPLETED

LA-QUAL Version 6.02 Run at 15:43 on 01/30/2004 File R:\projects\3110-051\la-qual\des_all\proj\winter\nat\bda_wint_nt.
WINTER DO NATURAL CONDITIONS (no man made loads) min= 6.28 max= 8.57
BAYOU DES ALLEMANDS REACHES 1-14



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LA-QUAL Version 6.02
Louisiana Department of Environmental Quality

Input file is R:\projects\3110-051\la-qual\des_all\revisions\proj\winter\nat\bda_wint_nt.txt
Output produced at 16:55 on 03/30/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Des Allemands (020301)
TITLE02         WINTER DO NATURAL CONDITIONS (no man made loads)
CNTROL03   NO   SEQU                        <Warning: legacy control - line ignored>
CNTROL04  YES   METR
CNTROL05  YES   OXYG                        <Warning: legacy control - line ignored>
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMP
MODOPT02   NO   SALI
MODOPT03  YES   CONSERVATIVE MATERIAL  I = Chloride                  IN mg/L      CL
MODOPT04  YES   CONSERVATIVE MATERIAL II = Conductivity              IN umhos     COND
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BIOCHEMICAL OXYGEN DEMAND
MODOPT07   NO   NITR
MODOPT08   NO   PHOS
MODOPT09   NO   CHLO
MODOPT10   NO   MACR
MODOPT11   NO   COLI
MODOPT12  YES   NONCONSERVATIVE MATERIAL = Nitrogenous BOD           IN mg/L      NBOD
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

PROGRAM         HYDRAULIC CALCULATION METHOD       =         2.00000 (widths and depths)
PROGRAM         NCM OXYGEN UPTAKE RATE             =         1.00000 mg O/mg NCM
PROGRAM         KL MINIMUM                         =         1.17000 meters/day
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05
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$$$ DATA TYPE 6 (ALGAE CONSTANTS) $$$

CARD TYPE	DESCRIPTION OF CONSTANT	VALUE

ENDATA06

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

CARD TYPE	DESCRIPTION OF CONSTANT	VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$

CARD TYPE	REACH	ID	NAME	BEGIN REACH km		END REACH km	ELEM LENGTH km	REACH LENGTH km	ELEMS PER RCH	BEGIN ELEM NUM	END ELEM NUM
REACH ID	1	DA	Bayou Des Allemands	21.80	TO	18.80	0.1000	3.00	30	1	30
REACH ID	2	DA	Bayou Des Allemands	18.80	TO	15.60	0.1000	3.20	32	31	62
REACH ID	3	DA	Bayou Des Allemands	15.60	TO	14.00	0.1000	1.60	16	63	78
REACH ID	4	DA	Bayou Des Allemands	14.00	TO	13.00	0.1000	1.00	10	79	88
REACH ID	5	DA	Bayou Des Allemands	13.00	TO	11.60	0.1000	1.40	14	89	102
REACH ID	6	DA	Bayou Des Allemands	11.60	TO	10.10	0.1000	1.50	15	103	117
REACH ID	7	DA	Bayou Des Allemands	10.10	TO	8.40	0.1000	1.70	17	118	134
REACH ID	8	DA	Bayou Des Allemands	8.40	TO	6.80	0.1000	1.60	16	135	150
REACH ID	9	DA	Bayou Des Allemands	6.80	TO	5.90	0.1000	0.90	9	151	159
REACH ID	10	DA	Bayou Des Allemands	5.90	TO	4.50	0.1000	1.40	14	160	173
REACH ID	11	DA	Bayou Des Allemands	4.50	TO	3.60	0.1000	0.90	9	174	182
REACH ID	12	DA	Bayou Des Allemands	3.60	TO	2.80	0.1000	0.80	8	183	190
REACH ID	13	DA	Bayou Des Allemands	2.80	TO	1.20	0.1000	1.60	16	191	206
REACH ID	14	DA	Bayou Des Allemands	1.20	TO	0.00	0.1000	1.20	12	207	218

ENDATA08

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

CARD TYPE	REACH	ID	WIDTH "A"	WIDTH "B"	WIDTH "C"	DEPTH "D"	DEPTH "E"	DEPTH "F"	SLOPE	MANNINGS "N"
HYDR-1	1	DA	0.000	0.000	404.000	0.000	0.000	2.350	0.00000	0.000
HYDR-1	2	DA	0.000	0.000	342.000	0.000	0.000	2.350	0.00000	0.000
HYDR-1	3	DA	0.000	0.000	440.000	0.000	0.000	2.410	0.00000	0.000
HYDR-1	4	DA	0.000	0.000	267.000	0.000	0.000	2.470	0.00000	0.000
HYDR-1	5	DA	0.000	0.000	334.000	0.000	0.000	2.490	0.00000	0.000
HYDR-1	6	DA	0.000	0.000	398.000	0.000	0.000	2.500	0.00000	0.000
HYDR-1	7	DA	0.000	0.000	231.000	0.000	0.000	2.500	0.00000	0.000
HYDR-1	8	DA	0.000	0.000	180.000	0.000	0.000	2.340	0.00000	0.000
HYDR-1	9	DA	0.000	0.000	264.000	0.000	0.000	2.170	0.00000	0.000
HYDR-1	10	DA	0.000	0.000	1058.000	0.000	0.000	1.970	0.00000	0.000
HYDR-1	11	DA	0.000	0.000	1224.000	0.000	0.000	1.760	0.00000	0.000
HYDR-1	12	DA	0.000	0.000	1010.000	0.000	0.000	1.810	0.00000	0.000
HYDR-1	13	DA	0.000	0.000	500.000	0.000	0.000	1.850	0.00000	0.000
HYDR-1	14	DA	0.000	0.000	213.000	0.000	0.000	1.850	0.00000	0.000

ENDATA09

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

CARD TYPE	REACH	ID	TIDAL RANGE	DISPERSION "A"	DISPERSION "B"	DISPERSION "C"	DISPERSION "D"
HYDR	1	DA	0.00	10.000	0.000	0.000	0.000
HYDR	2	DA	0.00	10.000	0.000	0.000	0.000
HYDR	3	DA	0.00	10.000	0.000	0.000	0.000
HYDR	4	DA	0.00	10.000	0.000	0.000	0.000
HYDR	5	DA	0.00	10.000	0.000	0.000	0.000
HYDR	6	DA	0.00	10.000	0.000	0.000	0.000
HYDR	7	DA	0.00	10.000	0.000	0.000	0.000
HYDR	8	DA	0.00	10.000	0.000	0.000	0.000
HYDR	9	DA	0.00	10.000	0.000	0.000	0.000
HYDR	10	DA	0.00	10.000	0.000	0.000	0.000
HYDR	11	DA	0.00	10.000	0.000	0.000	0.000
HYDR	12	DA	0.00	10.000	0.000	0.000	0.000
HYDR	13	DA	0.00	10.000	0.000	0.000	0.000
HYDR	14	DA	0.00	10.000	0.000	0.000	0.000

ENDATA10

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

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	DA	21.68	0.66	6.17	0.00	0.00	0.00	8.70	0.00
INITIAL	2	DA	21.68	0.66	6.17	0.00	0.00	0.00	4.60	0.00
INITIAL	3	DA	21.68	0.67	6.65	0.00	0.00	0.00	4.60	0.00
INITIAL	4	DA	21.68	0.67	6.65	0.00	0.00	0.00	4.60	0.00
INITIAL	5	DA	21.68	0.68	7.13	0.00	0.00	0.00	10.50	0.00
INITIAL	6	DA	21.68	0.68	7.13	0.00	0.00	0.00	16.40	0.00
INITIAL	7	DA	21.68	0.68	7.13	0.00	0.00	0.00	16.40	0.00
INITIAL	8	DA	21.68	0.69	6.96	0.00	0.00	0.00	10.45	0.00
INITIAL	9	DA	21.68	0.70	6.78	0.00	0.00	0.00	4.50	0.00
INITIAL	10	DA	21.68	0.70	6.78	0.00	0.00	0.00	4.50	0.00
INITIAL	11	DA	21.68	0.67	6.76	0.00	0.00	0.00	3.75	0.00
INITIAL	12	DA	21.68	0.67	6.76	0.00	0.00	0.00	3.75	0.00
INITIAL	13	DA	21.68	0.65	6.74	0.00	0.00	0.00	3.00	0.00
INITIAL	14	DA	21.68	0.65	6.74	0.00	0.00	0.00	3.00	0.00

ENDATA11

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

CARD TYPE	RCH NUM	RCH ID	K2 OPT	K2 "A"	K2 "B"	K2 "C"	BKGRND SOD g/m²/d	BOD DECAY per day	BOD SETT m/d	BOD CONV TO SOD	ANAER BOD DECAY per day	BOD2 DECAY per day	BOD2 SETT m/d	BOD2 CONV TO SOD	ANAER BOD2 DECAY per day
COEF-1	1	DA	15 LOUISIANA	0.000	0.000	0.000	1.560	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	DA	15 LOUISIANA	0.000	0.000	0.000	1.220	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	DA	15 LOUISIANA	0.000	0.000	0.000	0.040	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	DA	15 LOUISIANA	0.000	0.000	0.000	0.060	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	DA	15 LOUISIANA	0.000	0.000	0.000	0.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	DA	15 LOUISIANA	0.000	0.000	0.000	1.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	DA	15 LOUISIANA	0.000	0.000	0.000	1.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	11	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ENDATA12

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

CARD TYPE	REACH	ID	ORG-N DECA	ORG-N SETT	ORGN CONV TO NH3 SRCE	NH3 DECA	NH3 SRCE	PHOS SRCE	DENIT RATE

ENDATA13

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

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

ENDATA14

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

CARD TYPE	REACH	ID	COLIFORM DIE-OFF	NCM DECAY	NCM SETT	NCM CONV TO SOD
COEF-4	1	DA	0.000	0.090	0.000	0.000
COEF-4	2	DA	0.000	0.090	0.000	0.000
COEF-4	3	DA	0.000	0.090	0.000	0.000
COEF-4	4	DA	0.000	0.090	0.000	0.000
COEF-4	5	DA	0.000	0.090	0.000	0.000
COEF-4	6	DA	0.000	0.090	0.000	0.000
COEF-4	7	DA	0.000	0.090	0.000	0.000
COEF-4	8	DA	0.000	0.090	0.000	0.000
COEF-4	9	DA	0.000	0.090	0.000	0.000
COEF-4	10	DA	0.000	0.090	0.000	0.000
COEF-4	11	DA	0.000	0.090	0.000	0.000
COEF-4	12	DA	0.000	0.090	0.000	0.000
COEF-4	13	DA	0.000	0.090	0.000	0.000
COEF-4	14	DA	0.000	0.090	0.000	0.000

ENDATA15

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

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

ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD     ORG-N     NH3-N     NO3-N     BOD#2

ENDATA17

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

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

ENDATA18

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

CARD TYPE      REACH  ID       BOD#1     ORG-N      COLI       NCM        DO     BOD#2

NONPOINT         1   DA      359.00      0.00      0.00    180.00      0.00      0.00
NONPOINT         2   DA      569.00      0.00      0.00    285.00      0.00      0.00
NONPOINT         3   DA      918.00      0.00      0.00    459.00      0.00      0.00
NONPOINT         4   DA      345.00      0.00      0.00    172.00      0.00      0.00
NONPOINT         5   DA      750.00      0.00      0.00      5.00      0.00      0.00
NONPOINT         6   DA      500.00      0.00      0.00      6.00      0.00      0.00
NONPOINT         7   DA        4.00      0.00      0.00      4.00      0.00      0.00
NONPOINT         8   DA        3.00      0.00      0.00      3.00      0.00      0.00
NONPOINT         9   DA        2.00      0.00      0.00      2.00      0.00      0.00
NONPOINT        10   DA       15.00      0.00      0.00    741.00      0.00      0.00
NONPOINT        11   DA     1102.00      0.00      0.00    551.00      0.00      0.00
NONPOINT        12   DA      889.00      0.00      0.00    404.00      0.00      0.00
NONPOINT        13   DA      960.00      0.00      0.00    400.00      0.00      0.00
NONPOINT        14   DA      332.00      0.00      0.00    128.00      0.00      0.00
ENDATA19

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

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

HDWTR-1          1                             0  26.80000  946.328   21.68     0.00   369.000  1405.000
ENDATA20

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

CARD TYPE     ELEMENT   NAME                        DO     BOD#1     ORG-N     NH3-N     NO3-N     BOD#2
                                                   mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-1          1                                6.28      4.56      0.00      0.00      0.00      0.00
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
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CARD TYPE     ELEMENT   NAME                          PHOS     CHL A      COLI       NCM
                                                      mg/L      mg/L      mg/L      mg/L

HDWTR-1           1                                   0.00      0.00      0.00      0.86
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

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

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

WSTLD-1      112      10.70  B. Gauche DS          -6.16400 -217.65536 -140.695    0.00     0.00     0.000     0.000
WSTLD-1      163       5.60  B. Gauche US           6.16400  217.65536  140.695   27.88     0.71   346.000  1341.000
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                                      % BOD                            %
CARD TYPE     ELEMENT   NAME                          DO       BOD      RMVL     ORG-N     NH3-N    NITRIF     NO3-N     BOD#2
                                                     mg/L      mg/L                mg/L      mg/L                mg/L      mg/L

WSTLD-1         112     B. Gauche DS                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WSTLD-1         163     B. Gauche US                6.25      6.50      0.00      0.00      0.00      0.00      0.00      0.00
ENDATA25

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

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

WSTLD-1         112     B. Gauche DS                0.00      0.00      0.00      0.00
WSTLD-1         163     B. Gauche US                0.00      0.00      0.00      1.32
ENDATA26

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

CARD TYPE    CONSTITUENT                      CONCENTRATION

LOWER BC     TEMPERATURE                        =     21.680     deg C
LOWER BC     SALINITY                           =      0.640     ppt
LOWER BC     CONSERVATIVE MATERIAL I            =    311.000     mg/L
LOWER BC     CONSERVATIVE MATERIAL II           =   1210.500     umhos
LOWER BC     DISSOLVED OXYGEN                   =      7.000     mg/L
LOWER BC     BIOCHEMICAL OXYGEN DEMAND          =      5.590     mg/L
LOWER BC     CHLOROPHYLL A                      =      3.000     µg/L
LOWER BC     NONCONSERVATIVE MATERIAL           =      1.420     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$
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CARD TYPE     ELEMENT   NAME                  EQN      "A"       "B"       "H"

ENDATA28

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

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

ENDATA29

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


NUMBER OF PLOTS =  3
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  2  3  4  5  6  7
NUMBER OF REACHES IN PLOT 2 =   7
PLOT RCH  8  9 10 11 12 13 14
ENDATA30

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


OVERLAY 1 BDA_sens.OVL                    :BAYOU DES ALLEMANDS REACHES 1-14
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   1 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
     .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12
     .....GRAPHICS DATA FOR PLOT 3 WRITTEN TO UNIT 13


CONDENSED CAPSULE SUMMARY FOR
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DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORGN mg/L	NH3 µg/L	CHLA 1/da	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
HDWTR	26.80000	21.68	0.00	6.28	4.56	0.00	0.00	0.00	0.00							
21.70	26.80000	21.68	0.66	6.38	4.54	0.00	0.00	0.00	8.56	0.51	0.05	0.00	0.00	0.00	0.00	1.73
21.60	26.80000	21.68	0.66	6.41	4.53	0.00	0.00	0.00	8.43	0.51	0.05	0.00	0.00	0.00	0.00	1.73
21.50	26.80000	21.68	0.66	6.43	4.53	0.00	0.00	0.00	8.29	0.51	0.05	0.00	0.00	0.00	0.00	1.73
21.40	26.80000	21.68	0.66	6.45	4.52	0.00	0.00	0.00	8.15	0.51	0.05	0.00	0.00	0.00	0.00	1.73
21.30	26.80000	21.68	0.66	6.47	4.52	0.00	0.00	0.00	8.02	0.51	0.05	0.00	0.00	0.00	0.00	1.73
21.20	26.80000	21.68	0.66	6.49	4.51	0.00	0.00	0.00	7.88	0.51	0.05	0.00	0.00	0.00	0.00	1.73
21.10	26.80000	21.68	0.66	6.51	4.51	0.00	0.00	0.00	7.74	0.51	0.05	0.00	0.00	0.00	0.00	1.73
21.00	26.80000	21.68	0.66	6.52	4.50	0.00	0.00	0.00	7.61	0.51	0.05	0.00	0.00	0.00	0.00	1.73

20.90	26.80000	21.68	0.66	6.54	4.50	0.00	0.00	0.00	7.47	0.51	0.05	0.00	0.00	0.00	0.00	1.73
20.80	26.80000	21.68	0.66	6.56	4.49	0.00	0.00	0.00	7.33	0.51	0.05	0.00	0.00	0.00	0.00	1.73
20.70	26.80000	21.68	0.66	6.58	4.49	0.00	0.00	0.00	7.20	0.51	0.05	0.00	0.00	0.00	0.00	1.73
20.60	26.80000	21.68	0.66	6.59	4.49	0.00	0.00	0.00	7.06	0.51	0.05	0.00	0.00	0.00	0.00	1.73
20.50	26.80000	21.68	0.66	6.61	4.48	0.00	0.00	0.00	6.92	0.51	0.05	0.00	0.00	0.00	0.00	1.73
20.40	26.80000	21.68	0.66	6.62	4.48	0.00	0.00	0.00	6.79	0.51	0.05	0.00	0.00	0.00	0.00	1.73
20.30	26.80000	21.68	0.66	6.64	4.47	0.00	0.00	0.00	6.65	0.51	0.05	0.00	0.00	0.00	0.00	1.73
20.20	26.80000	21.68	0.66	6.65	4.47	0.00	0.00	0.00	6.51	0.51	0.05	0.00	0.00	0.00	0.00	1.73
20.10	26.80000	21.68	0.66	6.66	4.46	0.00	0.00	0.00	6.38	0.51	0.05	0.00	0.00	0.00	0.00	1.73
20.00	26.80000	21.68	0.66	6.67	4.46	0.00	0.00	0.00	6.24	0.51	0.05	0.00	0.00	0.00	0.00	1.73
19.90	26.80000	21.68	0.66	6.69	4.45	0.00	0.00	0.00	6.10	0.51	0.05	0.00	0.00	0.00	0.00	1.73
19.80	26.80000	21.68	0.66	6.70	4.45	0.00	0.00	0.00	5.97	0.51	0.05	0.00	0.00	0.00	0.00	1.73
19.70	26.80000	21.68	0.66	6.71	4.44	0.00	0.00	0.00	5.83	0.51	0.05	0.00	0.00	0.00	0.00	1.73
19.60	26.80000	21.68	0.66	6.72	4.44	0.00	0.00	0.00	5.69	0.51	0.05	0.00	0.00	0.00	0.00	1.73
19.50	26.80000	21.68	0.66	6.73	4.44	0.00	0.00	0.00	5.56	0.51	0.05	0.00	0.00	0.00	0.00	1.73
19.40	26.80000	21.68	0.66	6.74	4.43	0.00	0.00	0.00	5.42	0.51	0.05	0.00	0.00	0.00	0.00	1.73
19.30	26.80000	21.68	0.66	6.75	4.43	0.00	0.00	0.00	5.28	0.51	0.05	0.00	0.00	0.00	0.00	1.73
19.20	26.80000	21.68	0.66	6.76	4.43	0.00	0.00	0.00	5.15	0.51	0.05	0.00	0.00	0.00	0.00	1.73
19.10	26.80000	21.68	0.66	6.77	4.42	0.00	0.00	0.00	5.01	0.51	0.05	0.00	0.00	0.00	0.00	1.73
19.00	26.80000	21.68	0.66	6.78	4.42	0.00	0.00	0.00	4.87	0.51	0.05	0.00	0.00	0.00	0.00	1.73
18.90	26.80000	21.68	0.66	6.79	4.42	0.00	0.00	0.00	4.74	0.51	0.05	0.00	0.00	0.00	0.00	1.73
18.80	26.80000	21.68	0.66	6.80	4.42	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.73
18.70	26.80000	21.68	0.66	6.81	4.42	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
18.60	26.80000	21.68	0.66	6.82	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
18.50	26.80000	21.68	0.66	6.83	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
18.40	26.80000	21.68	0.66	6.84	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
18.30	26.80000	21.68	0.66	6.85	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
18.20	26.80000	21.68	0.66	6.86	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
18.10	26.80000	21.68	0.66	6.88	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
18.00	26.80000	21.68	0.66	6.89	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
17.90	26.80000	21.68	0.66	6.90	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
17.80	26.80000	21.68	0.66	6.91	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
17.70	26.80000	21.68	0.66	6.92	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
17.60	26.80000	21.68	0.66	6.93	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
17.50	26.80000	21.68	0.66	6.94	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
17.40	26.80000	21.68	0.66	6.94	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
17.30	26.80000	21.68	0.66	6.95	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
17.20	26.80000	21.68	0.67	6.96	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
17.10	26.80000	21.68	0.67	6.97	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
17.00	26.80000	21.68	0.67	6.98	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
16.90	26.80000	21.68	0.67	6.99	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
16.80	26.80000	21.68	0.67	7.00	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
16.70	26.80000	21.68	0.67	7.01	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
16.60	26.80000	21.68	0.67	7.02	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
16.50	26.80000	21.68	0.67	7.03	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
16.40	26.80000	21.68	0.67	7.04	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
16.30	26.80000	21.68	0.67	7.05	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
16.20	26.80000	21.68	0.67	7.06	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
16.10	26.80000	21.68	0.67	7.07	4.41	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
16.00	26.80000	21.68	0.67	7.08	4.42	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
15.90	26.80000	21.68	0.67	7.10	4.42	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
15.80	26.80000	21.68	0.67	7.12	4.43	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
15.70	26.80000	21.68	0.67	7.14	4.44	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
15.60	26.80000	21.68	0.67	7.17	4.45	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	1.36
15.50	26.80000	21.68	0.67	7.20	4.47	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
15.40	26.80000	21.68	0.67	7.23	4.48	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04

15.30	26.80000	21.68	0.67	7.26	4.49	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
15.20	26.80000	21.68	0.67	7.28	4.50	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
15.10	26.80000	21.68	0.67	7.31	4.52	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
15.00	26.80000	21.68	0.67	7.33	4.53	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
14.90	26.80000	21.68	0.67	7.36	4.54	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
14.80	26.80000	21.68	0.67	7.38	4.56	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
14.70	26.80000	21.68	0.67	7.40	4.57	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
14.60	26.80000	21.68	0.67	7.43	4.58	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
14.50	26.80000	21.68	0.67	7.45	4.59	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
14.40	26.80000	21.68	0.67	7.47	4.60	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
14.30	26.80000	21.68	0.67	7.48	4.61	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
14.20	26.80000	21.68	0.67	7.50	4.62	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
14.10	26.80000	21.68	0.67	7.52	4.63	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
14.00	26.80000	21.68	0.67	7.53	4.64	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.04
13.90	26.80000	21.68	0.67	7.55	4.64	0.00	0.00	0.00	5.19	0.52	0.05	0.00	0.00	0.00	0.00	0.07
13.80	26.80000	21.68	0.67	7.56	4.65	0.00	0.00	0.00	5.78	0.52	0.05	0.00	0.00	0.00	0.00	0.07
13.70	26.80000	21.68	0.67	7.58	4.66	0.00	0.00	0.00	6.37	0.52	0.05	0.00	0.00	0.00	0.00	0.07
13.60	26.80000	21.68	0.67	7.60	4.67	0.00	0.00	0.00	6.96	0.52	0.05	0.00	0.00	0.00	0.00	0.07
13.50	26.80000	21.68	0.68	7.62	4.68	0.00	0.00	0.00	7.55	0.52	0.05	0.00	0.00	0.00	0.00	0.07
13.40	26.80000	21.68	0.68	7.64	4.69	0.00	0.00	0.00	8.14	0.52	0.05	0.00	0.00	0.00	0.00	0.07
13.30	26.80000	21.68	0.68	7.66	4.70	0.00	0.00	0.00	8.73	0.52	0.05	0.00	0.00	0.00	0.00	0.07
13.20	26.80000	21.68	0.68	7.69	4.71	0.00	0.00	0.00	9.32	0.52	0.05	0.00	0.00	0.00	0.00	0.07
13.10	26.80000	21.68	0.68	7.71	4.72	0.00	0.00	0.00	9.91	0.52	0.05	0.00	0.00	0.00	0.00	0.07
13.00	26.80000	21.68	0.68	7.74	4.73	0.00	0.00	0.00	10.50	0.52	0.05	0.00	0.00	0.00	0.00	0.07
12.90	26.80000	21.68	0.68	7.76	4.75	0.00	0.00	0.00	10.92	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.80	26.80000	21.68	0.68	7.79	4.76	0.00	0.00	0.00	11.34	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.70	26.80000	21.68	0.68	7.81	4.77	0.00	0.00	0.00	11.76	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.60	26.80000	21.68	0.68	7.84	4.79	0.00	0.00	0.00	12.19	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.50	26.80000	21.68	0.68	7.86	4.80	0.00	0.00	0.00	12.61	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.40	26.80000	21.68	0.68	7.89	4.81	0.00	0.00	0.00	13.03	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.30	26.80000	21.68	0.68	7.91	4.83	0.00	0.00	0.00	13.45	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.20	26.80000	21.68	0.68	7.94	4.84	0.00	0.00	0.00	13.87	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.10	26.80000	21.68	0.68	7.97	4.85	0.00	0.00	0.00	14.29	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.00	26.80000	21.68	0.68	8.00	4.86	0.00	0.00	0.00	14.71	0.49	0.05	0.00	0.00	0.00	0.00	0.22
11.90	26.80000	21.68	0.68	8.03	4.87	0.00	0.00	0.00	15.14	0.49	0.05	0.00	0.00	0.00	0.00	0.22
11.80	26.80000	21.68	0.68	8.06	4.88	0.00	0.00	0.00	15.56	0.49	0.05	0.00	0.00	0.00	0.00	0.22
11.70	26.80000	21.68	0.68	8.09	4.89	0.00	0.00	0.00	15.98	0.49	0.05	0.00	0.00	0.00	0.00	0.22
11.60	26.80000	21.68	0.68	8.12	4.89	0.00	0.00	0.00	16.40	0.49	0.05	0.00	0.00	0.00	0.00	0.22
11.50	26.80000	21.68	0.68	8.15	4.90	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
11.40	26.80000	21.68	0.68	8.18	4.90	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
11.30	26.80000	21.68	0.68	8.21	4.90	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
11.20	26.80000	21.68	0.68	8.23	4.91	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
11.10	26.80000	21.68	0.68	8.26	4.91	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
11.00	26.80000	21.68	0.68	8.29	4.91	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.90	26.80000	21.68	0.68	8.31	4.91	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.80	26.80000	21.68	0.68	8.34	4.91	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.70	26.80000	21.68	0.68	8.36	4.92	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.60	20.63600	21.68	0.68	8.39	4.92	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.50	20.63600	21.68	0.68	8.41	4.92	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.40	20.63600	21.68	0.68	8.43	4.92	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.30	20.63600	21.68	0.68	8.45	4.91	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.20	20.63600	21.68	0.68	8.46	4.91	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.10	20.63600	21.68	0.68	8.48	4.91	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.00	20.63600	21.68	0.68	8.49	4.90	0.00	0.00	0.00	16.05	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.90	20.63600	21.68	0.68	8.50	4.89	0.00	0.00	0.00	15.70	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.80	20.63600	21.68	0.68	8.51	4.89	0.00	0.00	0.00	15.35	0.49	0.05	0.00	0.00	0.00	0.00	0.56

9.70	20.63600	21.68	0.68	8.52	4.88	0.00	0.00	0.00	15.00	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.60	20.63600	21.68	0.68	8.52	4.87	0.00	0.00	0.00	14.65	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.50	20.63600	21.68	0.68	8.53	4.86	0.00	0.00	0.00	14.30	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.40	20.63600	21.68	0.68	8.54	4.85	0.00	0.00	0.00	13.95	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.30	20.63600	21.68	0.68	8.55	4.84	0.00	0.00	0.00	13.60	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.20	20.63600	21.68	0.69	8.55	4.84	0.00	0.00	0.00	13.25	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.10	20.63600	21.68	0.69	8.56	4.83	0.00	0.00	0.00	12.90	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.00	20.63600	21.68	0.69	8.56	4.82	0.00	0.00	0.00	12.55	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.90	20.63600	21.68	0.69	8.56	4.81	0.00	0.00	0.00	12.20	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.80	20.63600	21.68	0.69	8.57	4.81	0.00	0.00	0.00	11.85	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.70	20.63600	21.68	0.69	8.57	4.80	0.00	0.00	0.00	11.50	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.60	20.63600	21.68	0.69	8.57	4.79	0.00	0.00	0.00	11.15	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.50	20.63600	21.68	0.69	8.56	4.78	0.00	0.00	0.00	10.80	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.40	20.63600	21.68	0.69	8.56	4.78	0.00	0.00	0.00	10.45	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.30	20.63600	21.68	0.69	8.55	4.77	0.00	0.00	0.00	10.08	0.60	0.05	0.00	0.00	0.00	0.00	1.67
8.20	20.63600	21.68	0.69	8.54	4.77	0.00	0.00	0.00	9.71	0.60	0.05	0.00	0.00	0.00	0.00	1.67
8.10	20.63600	21.68	0.69	8.53	4.76	0.00	0.00	0.00	9.33	0.60	0.05	0.00	0.00	0.00	0.00	1.67
8.00	20.63600	21.68	0.69	8.52	4.76	0.00	0.00	0.00	8.96	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.90	20.63600	21.68	0.69	8.51	4.75	0.00	0.00	0.00	8.59	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.80	20.63600	21.68	0.69	8.50	4.74	0.00	0.00	0.00	8.22	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.70	20.63600	21.68	0.69	8.48	4.74	0.00	0.00	0.00	7.85	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.60	20.63600	21.68	0.69	8.47	4.73	0.00	0.00	0.00	7.47	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.50	20.63600	21.68	0.70	8.46	4.73	0.00	0.00	0.00	7.10	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.40	20.63600	21.68	0.70	8.45	4.72	0.00	0.00	0.00	6.73	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.30	20.63600	21.68	0.70	8.43	4.71	0.00	0.00	0.00	6.36	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.20	20.63600	21.68	0.70	8.42	4.71	0.00	0.00	0.00	5.99	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.10	20.63600	21.68	0.70	8.40	4.70	0.00	0.00	0.00	5.62	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.00	20.63600	21.68	0.70	8.38	4.70	0.00	0.00	0.00	5.24	0.60	0.05	0.00	0.00	0.00	0.00	1.67
6.90	20.63600	21.68	0.70	8.36	4.69	0.00	0.00	0.00	4.87	0.60	0.05	0.00	0.00	0.00	0.00	1.67
6.80	20.63600	21.68	0.70	8.34	4.69	0.00	0.00	0.00	4.50	0.60	0.05	0.00	0.00	0.00	0.00	1.67
6.70	20.63600	21.68	0.70	8.32	4.68	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.60	20.63600	21.68	0.70	8.30	4.68	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.50	20.63600	21.68	0.70	8.27	4.68	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.40	20.63600	21.68	0.70	8.25	4.68	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.30	20.63600	21.68	0.70	8.22	4.69	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.20	20.63600	21.68	0.70	8.19	4.70	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.10	20.63600	21.68	0.70	8.16	4.72	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.00	20.63600	21.68	0.70	8.12	4.75	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
5.90	20.63600	21.68	0.70	8.07	4.79	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
5.80	20.63600	21.68	0.70	8.04	4.81	0.00	0.00	0.00	4.45	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.70	20.63600	21.68	0.70	8.02	4.83	0.00	0.00	0.00	4.39	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.60	20.63600	21.68	0.69	8.00	4.86	0.00	0.00	0.00	4.34	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.50	26.80000	21.68	0.69	7.97	4.89	0.00	0.00	0.00	4.29	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.40	26.80000	21.68	0.69	7.98	4.89	0.00	0.00	0.00	4.23	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.30	26.80000	21.68	0.69	7.99	4.88	0.00	0.00	0.00	4.18	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.20	26.80000	21.68	0.69	8.01	4.87	0.00	0.00	0.00	4.12	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.10	26.80000	21.68	0.68	8.02	4.87	0.00	0.00	0.00	4.07	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.00	26.80000	21.68	0.68	8.03	4.87	0.00	0.00	0.00	4.02	0.61	0.05	0.00	0.00	0.00	0.00	0.22
4.90	26.80000	21.68	0.68	8.04	4.87	0.00	0.00	0.00	3.96	0.61	0.05	0.00	0.00	0.00	0.00	0.22
4.80	26.80000	21.68	0.68	8.05	4.88	0.00	0.00	0.00	3.91	0.61	0.05	0.00	0.00	0.00	0.00	0.22
4.70	26.80000	21.68	0.67	8.06	4.89	0.00	0.00	0.00	3.86	0.61	0.05	0.00	0.00	0.00	0.00	0.22
4.60	26.80000	21.68	0.67	8.07	4.90	0.00	0.00	0.00	3.80	0.61	0.05	0.00	0.00	0.00	0.00	0.22
4.50	26.80000	21.68	0.67	8.08	4.92	0.00	0.00	0.00	3.75	0.61	0.05	0.00	0.00	0.00	0.00	0.22
4.40	26.80000	21.68	0.67	8.09	4.95	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
4.30	26.80000	21.68	0.67	8.10	4.97	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
4.20	26.80000	21.68	0.67	8.10	4.99	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22

4.10	26.80000	21.68	0.67	8.11	5.02	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
4.00	26.80000	21.68	0.67	8.12	5.04	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
3.90	26.80000	21.68	0.67	8.12	5.06	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
3.80	26.80000	21.68	0.67	8.13	5.08	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
3.70	26.80000	21.68	0.67	8.13	5.10	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
3.60	26.80000	21.68	0.67	8.14	5.12	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
3.50	26.80000	21.68	0.67	8.14	5.13	0.00	0.00	0.00	3.66	0.67	0.05	0.00	0.00	0.00	0.00	0.22
3.40	26.80000	21.68	0.67	8.14	5.15	0.00	0.00	0.00	3.56	0.67	0.05	0.00	0.00	0.00	0.00	0.22
3.30	26.80000	21.68	0.66	8.14	5.17	0.00	0.00	0.00	3.47	0.67	0.05	0.00	0.00	0.00	0.00	0.22
3.20	26.80000	21.68	0.66	8.15	5.19	0.00	0.00	0.00	3.38	0.67	0.05	0.00	0.00	0.00	0.00	0.22
3.10	26.80000	21.68	0.66	8.15	5.20	0.00	0.00	0.00	3.28	0.67	0.05	0.00	0.00	0.00	0.00	0.22
3.00	26.80000	21.68	0.65	8.15	5.22	0.00	0.00	0.00	3.19	0.67	0.05	0.00	0.00	0.00	0.00	0.22
2.90	26.80000	21.68	0.65	8.15	5.23	0.00	0.00	0.00	3.09	0.67	0.05	0.00	0.00	0.00	0.00	0.22
2.80	26.80000	21.68	0.65	8.15	5.24	0.00	0.00	0.00	3.00	0.67	0.05	0.00	0.00	0.00	0.00	0.22
2.70	26.80000	21.68	0.65	8.15	5.25	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.60	26.80000	21.68	0.65	8.15	5.26	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.50	26.80000	21.68	0.65	8.15	5.28	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.40	26.80000	21.68	0.65	8.15	5.29	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.30	26.80000	21.68	0.65	8.15	5.31	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.20	26.80000	21.68	0.65	8.15	5.32	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.10	26.80000	21.68	0.65	8.15	5.33	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.00	26.80000	21.68	0.65	8.15	5.35	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.90	26.80000	21.68	0.65	8.15	5.36	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.80	26.80000	21.68	0.65	8.15	5.37	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.70	26.80000	21.68	0.65	8.16	5.38	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.60	26.80000	21.68	0.65	8.16	5.39	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.50	26.80000	21.68	0.65	8.16	5.41	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.40	26.80000	21.68	0.65	8.16	5.41	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.30	26.80000	21.68	0.65	8.16	5.42	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.20	26.80000	21.68	0.65	8.16	5.43	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.10	26.80000	21.68	0.65	8.16	5.43	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
1.00	26.80000	21.68	0.65	8.16	5.44	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.90	26.80000	21.68	0.65	8.16	5.45	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.80	26.80000	21.68	0.65	8.16	5.45	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.70	26.80000	21.68	0.65	8.15	5.46	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.60	26.80000	21.68	0.64	8.14	5.47	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.50	26.80000	21.68	0.64	8.11	5.48	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.40	26.80000	21.68	0.64	8.07	5.49	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.30	26.80000	21.68	0.64	8.00	5.50	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.20	26.80000	21.68	0.64	7.88	5.52	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.10	26.80000	21.68	0.64	7.67	5.54	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.00	26.80000	21.68	0.64	7.31	5.57	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22

FINAL REPORT
REACH NO. 1 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
1	HDWTR	26.80000	21.68	0.00	369.00	1405.00	6.28	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
1	21.80	21.70	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
2	21.70	21.60	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
3	21.60	21.50	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
4	21.50	21.40	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
5	21.40	21.30	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
6	21.30	21.20	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
7	21.20	21.10	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
8	21.10	21.00	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
9	21.00	20.90	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
10	20.90	20.80	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
11	20.80	20.70	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
12	20.70	20.60	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
13	20.60	20.50	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
14	20.50	20.40	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
15	20.40	20.30	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
16	20.30	20.20	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
17	20.20	20.10	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
18	20.10	20.00	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
19	20.00	19.90	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
20	19.90	19.80	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
21	19.80	19.70	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
22	19.70	19.60	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
23	19.60	19.50	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
24	19.50	19.40	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
25	19.40	19.30	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
26	19.30	19.20	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
27	19.20	19.10	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
28	19.10	19.00	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
29	19.00	18.90	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
30	18.90	18.80	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
TOT						1.23			2848200.00	1212000.00					
AVG					0.02823		2.35	404.00			949.40				
CUM						1.23									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	21.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.10	0.00
2	21.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.10	0.00
3	21.500	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.10	0.00
4	21.400	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.10	0.00
5	21.300	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.10	0.00
6	21.200	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.10	0.00
7	21.100	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.10	0.00
8	21.000	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.10	0.00

9	20.900	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.10	0.00
10	20.800	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.10	0.00
11	20.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.10	0.00
12	20.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.10	0.00
13	20.500	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.10	0.00
14	20.400	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.10	0.00
15	20.300	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.10	0.00
16	20.200	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.10	0.00
17	20.100	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.10	0.00
18	20.000	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.10	0.00
19	19.900	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.10	0.00
20	19.800	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.10	0.00
21	19.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.10	0.00
22	19.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.10	0.00
23	19.500	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.10	0.00
24	19.400	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.10	0.00
25	19.300	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.10	0.00
26	19.200	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.10	0.00
27	19.100	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.10	0.00
28	19.000	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.10	0.00
29	18.900	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.10	0.00
30	18.800	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.73	1.73	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.56			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
1	21.700	21.68	0.66	369.00	1405.00	6.38	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	8.56	0.00	0.	0.86
2	21.600	21.68	0.66	369.00	1405.00	6.41	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	8.43	0.00	0.	0.85
3	21.500	21.68	0.66	369.00	1405.00	6.43	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	8.29	0.00	0.	0.85
4	21.400	21.68	0.66	369.00	1405.00	6.45	4.52	0.00	4.52	0.00	0.00	0.00	0.00	0.00	0.00	8.15	0.00	0.	0.85
5	21.300	21.68	0.66	369.00	1405.00	6.47	4.52	0.00	4.52	0.00	0.00	0.00	0.00	0.00	0.00	8.02	0.00	0.	0.85
6	21.200	21.68	0.66	369.00	1405.00	6.49	4.51	0.00	4.51	0.00	0.00	0.00	0.00	0.00	0.00	7.88	0.00	0.	0.85
7	21.100	21.68	0.66	369.00	1405.00	6.51	4.51	0.00	4.51	0.00	0.00	0.00	0.00	0.00	0.00	7.74	0.00	0.	0.85
8	21.000	21.68	0.66	369.00	1405.00	6.52	4.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	7.61	0.00	0.	0.85
9	20.900	21.68	0.66	369.00	1405.00	6.54	4.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	7.47	0.00	0.	0.85
10	20.800	21.68	0.66	369.00	1405.00	6.56	4.49	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00	7.33	0.00	0.	0.85
11	20.700	21.68	0.66	369.00	1405.00	6.58	4.49	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.	0.85
12	20.600	21.68	0.66	369.00	1405.00	6.59	4.49	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00	7.06	0.00	0.	0.85
13	20.500	21.68	0.66	369.00	1405.00	6.61	4.48	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00	6.92	0.00	0.	0.84
14	20.400	21.68	0.66	369.00	1405.00	6.62	4.48	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00	6.79	0.00	0.	0.84
15	20.300	21.68	0.66	369.00	1405.00	6.64	4.47	0.00	4.47	0.00	0.00	0.00	0.00	0.00	0.00	6.65	0.00	0.	0.84
16	20.200	21.68	0.66	369.00	1405.00	6.65	4.47	0.00	4.47	0.00	0.00	0.00	0.00	0.00	0.00	6.51	0.00	0.	0.84
17	20.100	21.68	0.66	369.00	1405.00	6.66	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	6.38	0.00	0.	0.84
18	20.000	21.68	0.66	369.00	1405.00	6.67	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	6.24	0.00	0.	0.84
19	19.900	21.68	0.66	369.00	1405.00	6.69	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	6.10	0.00	0.	0.84
20	19.800	21.68	0.66	369.00	1405.00	6.70	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	5.97	0.00	0.	0.84
21	19.700	21.68	0.66	369.00	1405.00	6.71	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	5.83	0.00	0.	0.84
22	19.600	21.68	0.66	369.00	1405.00	6.72	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	5.69	0.00	0.	0.84
23	19.500	21.68	0.66	369.00	1405.00	6.73	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	5.56	0.00	0.	0.84

24	19.400	21.68	0.66	369.00	1405.00	6.74	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	5.42	0.00	0.	0.84
25	19.300	21.68	0.66	369.00	1405.00	6.75	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00	0.	0.84
26	19.200	21.68	0.66	369.00	1405.00	6.76	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	5.15	0.00	0.	0.84
27	19.100	21.68	0.66	369.00	1405.00	6.77	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	5.01	0.00	0.	0.84
28	19.000	21.68	0.66	369.00	1405.00	6.78	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.	0.84
29	18.900	21.68	0.66	369.00	1405.00	6.79	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	4.74	0.00	0.	0.84
30	18.800	21.68	0.66	369.00	1405.00	6.80	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.84

FINAL REPORT
REACH NO. 2 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
31	UPR RCH	26.80000	21.68	0.66	369.00	1405.00	6.80	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.84

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
31	18.80	18.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
32	18.70	18.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
33	18.60	18.50	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
34	18.50	18.40	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
35	18.40	18.30	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
36	18.30	18.20	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
37	18.20	18.10	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
38	18.10	18.00	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
39	18.00	17.90	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
40	17.90	17.80	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
41	17.80	17.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
42	17.70	17.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
43	17.60	17.50	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
44	17.50	17.40	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
45	17.40	17.30	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
46	17.30	17.20	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
47	17.20	17.10	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
48	17.10	17.00	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
49	17.00	16.90	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
50	16.90	16.80	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
51	16.80	16.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
52	16.70	16.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
53	16.60	16.50	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
54	16.50	16.40	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
55	16.40	16.30	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
56	16.30	16.20	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
57	16.20	16.10	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
58	16.10	16.00	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
59	16.00	15.90	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033

60	15.90	15.80	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
61	15.80	15.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
62	15.70	15.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
TOT						1.11			2571839.75	1094400.00					
AVG					0.03335		2.35	342.00			803.70				
CUM						2.34									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
31	18.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
32	18.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
33	18.500	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
34	18.400	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
35	18.300	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
36	18.200	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
37	18.100	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
38	18.000	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
39	17.900	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
40	17.800	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
41	17.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
42	17.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
43	17.500	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
44	17.400	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
45	17.300	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
46	17.200	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
47	17.100	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
48	17.000	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
49	16.900	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
50	16.800	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
51	16.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
52	16.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
53	16.500	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
54	16.400	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
55	16.300	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
56	16.200	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
57	16.100	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
58	16.000	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
59	15.900	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
60	15.800	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
61	15.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
62	15.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.22			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
31	18.700	21.68	0.66	369.00	1405.00	6.81	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.84
32	18.600	21.68	0.66	369.00	1405.00	6.82	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.84
33	18.500	21.68	0.66	369.00	1405.00	6.83	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.84
34	18.400	21.68	0.66	369.00	1405.00	6.84	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.84
35	18.300	21.68	0.66	369.00	1405.00	6.85	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.84
36	18.200	21.68	0.66	369.00	1405.00	6.86	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.84
37	18.100	21.68	0.66	369.00	1405.00	6.88	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.84
38	18.000	21.68	0.66	369.00	1405.00	6.89	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.84
39	17.900	21.68	0.66	369.00	1405.00	6.90	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.84
40	17.800	21.68	0.66	369.00	1405.00	6.91	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.84
41	17.700	21.68	0.66	369.00	1405.00	6.92	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.85
42	17.600	21.68	0.66	369.00	1405.00	6.93	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.85
43	17.500	21.68	0.66	369.00	1405.00	6.94	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.85
44	17.400	21.68	0.66	369.00	1405.00	6.94	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.85
45	17.300	21.68	0.66	369.00	1405.00	6.95	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.85
46	17.200	21.68	0.67	369.00	1405.00	6.96	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.85
47	17.100	21.68	0.67	369.00	1405.00	6.97	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.85
48	17.000	21.68	0.67	369.00	1405.00	6.98	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.85
49	16.900	21.68	0.67	369.00	1405.00	6.99	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.85
50	16.800	21.68	0.67	369.00	1405.00	7.00	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.85
51	16.700	21.68	0.67	369.00	1405.00	7.01	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.86
52	16.600	21.68	0.67	369.00	1405.00	7.02	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.86
53	16.500	21.68	0.67	369.00	1405.00	7.03	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.86
54	16.400	21.68	0.67	369.00	1405.00	7.04	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.86
55	16.300	21.68	0.67	369.00	1405.00	7.05	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.86
56	16.200	21.68	0.67	369.00	1405.00	7.06	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.86
57	16.100	21.68	0.67	369.00	1405.00	7.07	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.87
58	16.000	21.68	0.67	369.00	1405.00	7.08	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.87
59	15.900	21.68	0.67	369.00	1405.00	7.10	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.87
60	15.800	21.68	0.67	369.00	1405.00	7.12	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.88
61	15.700	21.68	0.67	369.00	1405.00	7.14	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.88
62	15.600	21.68	0.67	369.00	1405.00	7.17	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.89

FINAL REPORT
REACH NO. 3 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
63	UPR RCH	26.80000	21.68	0.67	369.00	1405.00	7.17	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.89

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
63	15.60	15.50	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
64	15.50	15.40	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
65	15.40	15.30	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
66	15.30	15.20	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
67	15.20	15.10	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
68	15.10	15.00	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
69	15.00	14.90	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
70	14.90	14.80	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
71	14.80	14.70	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
72	14.70	14.60	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
73	14.60	14.50	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
74	14.50	14.40	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
75	14.40	14.30	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
76	14.30	14.20	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
77	14.20	14.10	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
78	14.10	14.00	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
TOT						0.73			1696640.00	704000.00					
AVG					0.02527		2.41	440.00			1060.40				
CUM						3.07									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
63	15.500	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
64	15.400	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
65	15.300	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
66	15.200	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
67	15.100	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
68	15.000	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
69	14.900	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
70	14.800	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
71	14.700	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
72	14.600	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
73	14.500	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
74	14.400	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
75	14.300	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
76	14.200	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
77	14.100	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
78	14.000	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.04			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
63	15.500	21.68	0.67	369.00	1405.00	7.20	4.47	0.00	4.47	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.90
64	15.400	21.68	0.67	369.00	1405.00	7.23	4.48	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.91
65	15.300	21.68	0.67	369.00	1405.00	7.26	4.49	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.92
66	15.200	21.68	0.67	369.00	1405.00	7.28	4.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.92
67	15.100	21.68	0.67	369.00	1405.00	7.31	4.52	0.00	4.52	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.93
68	15.000	21.68	0.67	369.00	1405.00	7.33	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.94
69	14.900	21.68	0.67	369.00	1405.00	7.36	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.95
70	14.800	21.68	0.67	369.00	1405.00	7.38	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.95
71	14.700	21.68	0.67	369.00	1405.00	7.40	4.57	0.00	4.57	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.96
72	14.600	21.68	0.67	369.00	1405.00	7.43	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.97
73	14.500	21.68	0.67	369.00	1405.00	7.45	4.59	0.00	4.59	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.97
74	14.400	21.68	0.67	369.00	1405.00	7.47	4.60	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.98
75	14.300	21.68	0.67	369.00	1405.00	7.48	4.61	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.99
76	14.200	21.68	0.67	369.00	1405.00	7.50	4.62	0.00	4.62	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.99
77	14.100	21.68	0.67	369.00	1405.00	7.52	4.63	0.00	4.63	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.00
78	14.000	21.68	0.67	369.00	1405.00	7.53	4.64	0.00	4.64	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.00

FINAL REPORT
REACH NO. 4 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
79	UPR RCH	26.80000	21.68	0.67	369.00	1405.00	7.53	4.64	0.00	4.64	0.00	0.00	0.00	0.00	0.00	4.60	0.00	1.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
79	14.00	13.90	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
80	13.90	13.80	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
81	13.80	13.70	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
82	13.70	13.60	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
83	13.60	13.50	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
84	13.50	13.40	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
85	13.40	13.30	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
86	13.30	13.20	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
87	13.20	13.10	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
88	13.10	13.00	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
TOT						0.28			659490.00	267000.00					
AVG					0.04064		2.47	267.00			659.49				
CUM						3.36									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
79	13.900	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.10	0.00
80	13.800	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.10	0.00
81	13.700	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.10	0.00
82	13.600	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.10	0.00
83	13.500	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.10	0.00
84	13.400	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.10	0.00
85	13.300	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.10	0.00
86	13.200	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.10	0.00
87	13.100	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.10	0.00
88	13.000	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.06			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
79	13.900	21.68	0.67	369.00	1405.00	7.55	4.64	0.00	4.64	0.00	0.00	0.00	0.00	0.00	0.00	5.19	0.00	0.	1.00
80	13.800	21.68	0.67	369.00	1405.00	7.56	4.65	0.00	4.65	0.00	0.00	0.00	0.00	0.00	0.00	5.78	0.00	0.	1.01
81	13.700	21.68	0.67	369.00	1405.00	7.58	4.66	0.00	4.66	0.00	0.00	0.00	0.00	0.00	0.00	6.37	0.00	0.	1.01
82	13.600	21.68	0.67	369.00	1405.00	7.60	4.67	0.00	4.67	0.00	0.00	0.00	0.00	0.00	0.00	6.96	0.00	0.	1.01
83	13.500	21.68	0.68	369.00	1405.00	7.62	4.68	0.00	4.68	0.00	0.00	0.00	0.00	0.00	0.00	7.55	0.00	0.	1.02
84	13.400	21.68	0.68	369.00	1405.00	7.64	4.69	0.00	4.69	0.00	0.00	0.00	0.00	0.00	0.00	8.14	0.00	0.	1.02
85	13.300	21.68	0.68	369.00	1405.00	7.66	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	8.73	0.00	0.	1.02
86	13.200	21.68	0.68	369.00	1405.00	7.69	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	9.32	0.00	0.	1.02
87	13.100	21.68	0.68	369.00	1405.00	7.71	4.72	0.00	4.72	0.00	0.00	0.00	0.00	0.00	0.00	9.91	0.00	0.	1.02
88	13.000	21.68	0.68	369.00	1405.00	7.74	4.73	0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	10.50	0.00	0.	1.02

FINAL REPORT
REACH NO. 5 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
89	UPR RCH	26.80000	21.68	0.68	369.00	1405.00	7.74	4.73	0.00	4.73	0.00	0.00	0.00	0.00	0.00	10.50	0.00	1.02

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
89	13.00	12.90	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
90	12.90	12.80	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
91	12.80	12.70	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
92	12.70	12.60	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
93	12.60	12.50	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
94	12.50	12.40	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
95	12.40	12.30	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
96	12.30	12.20	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
97	12.20	12.10	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
98	12.10	12.00	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
99	12.00	11.90	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
100	11.90	11.80	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
101	11.80	11.70	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
102	11.70	11.60	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
TOT						0.50			1164324.00	467600.00					
AVG					0.03222		2.49	334.00			831.66				
CUM						3.86									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
89	12.900	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.10	0.00
90	12.800	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.10	0.00
91	12.700	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.10	0.00
92	12.600	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.10	0.00
93	12.500	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.10	0.00
94	12.400	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.10	0.00
95	12.300	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.10	0.00
96	12.200	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.10	0.00
97	12.100	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.10	0.00
98	12.000	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.10	0.00
99	11.900	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.10	0.00
100	11.800	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.10	0.00
101	11.700	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.10	0.00
102	11.600	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.47	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
89	12.900	21.68	0.68	369.00	1405.00	7.76	4.75	0.00	4.75	0.00	0.00	0.00	0.00	0.00	0.00	10.92	0.00	0.	1.02
90	12.800	21.68	0.68	369.00	1405.00	7.79	4.76	0.00	4.76	0.00	0.00	0.00	0.00	0.00	0.00	11.34	0.00	0.	1.02
91	12.700	21.68	0.68	369.00	1405.00	7.81	4.77	0.00	4.77	0.00	0.00	0.00	0.00	0.00	0.00	11.76	0.00	0.	1.01
92	12.600	21.68	0.68	369.00	1405.00	7.84	4.79	0.00	4.79	0.00	0.00	0.00	0.00	0.00	0.00	12.19	0.00	0.	1.01
93	12.500	21.68	0.68	369.00	1405.00	7.86	4.80	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	12.61	0.00	0.	1.00
94	12.400	21.68	0.68	369.00	1405.00	7.89	4.81	0.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	13.03	0.00	0.	1.00
95	12.300	21.68	0.68	369.00	1405.00	7.91	4.83	0.00	4.83	0.00	0.00	0.00	0.00	0.00	0.00	13.45	0.00	0.	1.00
96	12.200	21.68	0.68	369.00	1405.00	7.94	4.84	0.00	4.84	0.00	0.00	0.00	0.00	0.00	0.00	13.87	0.00	0.	0.99
97	12.100	21.68	0.68	369.00	1405.00	7.97	4.85	0.00	4.85	0.00	0.00	0.00	0.00	0.00	0.00	14.29	0.00	0.	0.99
98	12.000	21.68	0.68	369.00	1405.00	8.00	4.86	0.00	4.86	0.00	0.00	0.00	0.00	0.00	0.00	14.71	0.00	0.	0.99
99	11.900	21.68	0.68	369.00	1404.99	8.03	4.87	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	15.14	0.00	0.	0.98
100	11.800	21.68	0.68	369.00	1404.99	8.06	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	15.56	0.00	0.	0.98
101	11.700	21.68	0.68	369.00	1404.99	8.09	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	15.98	0.00	0.	0.97
102	11.600	21.68	0.68	369.00	1404.99	8.12	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.97

FINAL REPORT
REACH NO. 6 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
103	UPR RCH	26.80000	21.68	0.68	369.00	1404.99	8.12	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.97
112	WSTLD	-6.16400	21.68	0.68	369.00	1404.99	8.39	4.92	0.00	4.92	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.93

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
103	11.60	11.50	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
104	11.50	11.40	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
105	11.40	11.30	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
106	11.30	11.20	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
107	11.20	11.10	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
108	11.10	11.00	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
109	11.00	10.90	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
110	10.90	10.80	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
111	10.80	10.70	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
112	10.70	10.60	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
113	10.60	10.50	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
114	10.50	10.40	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
115	10.40	10.30	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
116	10.30	10.20	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
117	10.20	10.10	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021

TOT							0.72					1492500.00	597000.00										
AVG						0.02406		2.50	398.00								995.00						
CUM							4.58																

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
103	11.500	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
104	11.400	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
105	11.300	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
106	11.200	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
107	11.100	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
108	11.000	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
109	10.900	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
110	10.800	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
111	10.700	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
112	10.600	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
113	10.500	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
114	10.400	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
115	10.300	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
116	10.200	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
117	10.100	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.47	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
103	11.500	21.68	0.68	369.00	1404.99	8.15	4.90	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.97
104	11.400	21.68	0.68	369.00	1404.99	8.18	4.90	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.96
105	11.300	21.68	0.68	369.00	1404.99	8.21	4.90	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.96
106	11.200	21.68	0.68	369.00	1404.99	8.23	4.91	0.00	4.91	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.95
107	11.100	21.68	0.68	369.00	1404.99	8.26	4.91	0.00	4.91	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.95
108	11.000	21.68	0.68	369.00	1404.99	8.29	4.91	0.00	4.91	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.95
109	10.900	21.68	0.68	369.00	1404.99	8.31	4.91	0.00	4.91	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.94
110	10.800	21.68	0.68	369.00	1404.99	8.34	4.91	0.00	4.91	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.94
111	10.700	21.68	0.68	369.00	1404.99	8.36	4.92	0.00	4.92	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.94
112	10.600	21.68	0.68	369.00	1404.99	8.39	4.92	0.00	4.92	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.93
113	10.500	21.68	0.68	369.00	1404.99	8.41	4.92	0.00	4.92	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.93
114	10.400	21.68	0.68	369.00	1404.99	8.43	4.92	0.00	4.92	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.92
115	10.300	21.68	0.68	369.00	1404.99	8.45	4.91	0.00	4.91	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.92
116	10.200	21.68	0.68	369.00	1404.99	8.46	4.91	0.00	4.91	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.92
117	10.100	21.68	0.68	369.00	1404.99	8.48	4.91	0.00	4.91	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.92

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
118	UPR RCH	20.63600	21.68	0.68	369.00	1404.99	8.48	4.91	0.00	4.91	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.92

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
118	10.10	10.00	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
119	10.00	9.90	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
120	9.90	9.80	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
121	9.80	9.70	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
122	9.70	9.60	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
123	9.60	9.50	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
124	9.50	9.40	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
125	9.40	9.30	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
126	9.30	9.20	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
127	9.20	9.10	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
128	9.10	9.00	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
129	9.00	8.90	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
130	8.90	8.80	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
131	8.80	8.70	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
132	8.70	8.60	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
133	8.60	8.50	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
134	8.50	8.40	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
TOT						0.55			981750.00	392700.00					
AVG					0.03573		2.50	231.00			577.50				
CUM						5.13									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
118	10.000	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.10	0.00
119	9.900	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.10	0.00
120	9.800	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.10	0.00
121	9.700	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.10	0.00
122	9.600	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.10	0.00
123	9.500	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.10	0.00
124	9.400	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.10	0.00
125	9.300	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.10	0.00
126	9.200	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.10	0.00

127	9.100	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.10	0.00
128	9.000	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.10	0.00
129	8.900	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.10	0.00
130	8.800	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.10	0.00
131	8.700	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.10	0.00
132	8.600	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.10	0.00
133	8.500	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.10	0.00
134	8.400	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.47	0.05	0.00	0.00	0.00	0.00	0.00	0.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
118	10.000	21.68	0.68	369.00	1404.99	8.49	4.90	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	16.05	0.00	0.	0.91
119	9.900	21.68	0.68	369.00	1404.99	8.50	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	15.70	0.00	0.	0.91
120	9.800	21.68	0.68	369.00	1404.99	8.51	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	15.35	0.00	0.	0.91
121	9.700	21.68	0.68	369.00	1405.00	8.52	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.	0.91
122	9.600	21.68	0.68	369.00	1405.00	8.52	4.87	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	14.65	0.00	0.	0.90
123	9.500	21.68	0.68	369.00	1405.00	8.53	4.86	0.00	4.86	0.00	0.00	0.00	0.00	0.00	0.00	14.30	0.00	0.	0.90
124	9.400	21.68	0.68	369.00	1405.00	8.54	4.85	0.00	4.85	0.00	0.00	0.00	0.00	0.00	0.00	13.95	0.00	0.	0.90
125	9.300	21.68	0.68	369.00	1405.00	8.55	4.84	0.00	4.84	0.00	0.00	0.00	0.00	0.00	0.00	13.60	0.00	0.	0.89
126	9.200	21.68	0.69	369.00	1404.99	8.55	4.84	0.00	4.84	0.00	0.00	0.00	0.00	0.00	0.00	13.25	0.00	0.	0.89
127	9.100	21.68	0.69	369.00	1404.99	8.56	4.83	0.00	4.83	0.00	0.00	0.00	0.00	0.00	0.00	12.90	0.00	0.	0.89
128	9.000	21.68	0.69	369.00	1404.99	8.56	4.82	0.00	4.82	0.00	0.00	0.00	0.00	0.00	0.00	12.55	0.00	0.	0.89
129	8.900	21.68	0.69	369.00	1405.00	8.56	4.81	0.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	12.20	0.00	0.	0.88
130	8.800	21.68	0.69	369.00	1405.00	8.57	4.81	0.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	11.85	0.00	0.	0.88
131	8.700	21.68	0.69	369.00	1404.99	8.57	4.80	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	11.50	0.00	0.	0.88
132	8.600	21.68	0.69	369.00	1404.99	8.57	4.79	0.00	4.79	0.00	0.00	0.00	0.00	0.00	0.00	11.15	0.00	0.	0.88
133	8.500	21.68	0.69	369.00	1404.99	8.56	4.78	0.00	4.78	0.00	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.	0.88
134	8.400	21.68	0.69	369.00	1404.99	8.56	4.78	0.00	4.78	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00	0.	0.87

FINAL REPORT
REACH NO. 8 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
135	UPR RCH	20.63600	21.68	0.69	369.00	1404.99	8.56	4.78	0.00	4.78	0.00	0.00	0.00	0.00	0.00	10.45	0.00	0.87

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
135	8.40	8.30	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
136	8.30	8.20	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
137	8.20	8.10	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
138	8.10	8.00	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
139	8.00	7.90	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
140	7.90	7.80	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
141	7.80	7.70	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
142	7.70	7.60	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
143	7.60	7.50	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
144	7.50	7.40	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
145	7.40	7.30	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
146	7.30	7.20	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
147	7.20	7.10	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
148	7.10	7.00	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
149	7.00	6.90	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
150	6.90	6.80	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
TOT						0.38			673920.00	288000.00					
AVG					0.04899		2.34	180.00			421.20				
CUM						5.51									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
135	8.300	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.10	0.00
136	8.200	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.10	0.00
137	8.100	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.10	0.00
138	8.000	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.10	0.00
139	7.900	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.10	0.00
140	7.800	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.10	0.00
141	7.700	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.10	0.00
142	7.600	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.10	0.00
143	7.500	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.10	0.00
144	7.400	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.10	0.00
145	7.300	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.10	0.00
146	7.200	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.10	0.00
147	7.100	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.10	0.00
148	7.000	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.10	0.00
149	6.900	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.10	0.00
150	6.800	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.58	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
135	8.300	21.68	0.69	369.00	1404.99	8.55	4.77	0.00	4.77	0.00	0.00	0.00	0.00	0.00	0.00	10.08	0.00	0.	0.87
136	8.200	21.68	0.69	369.00	1404.99	8.54	4.77	0.00	4.77	0.00	0.00	0.00	0.00	0.00	0.00	9.71	0.00	0.	0.87
137	8.100	21.68	0.69	369.00	1404.99	8.53	4.76	0.00	4.76	0.00	0.00	0.00	0.00	0.00	0.00	9.33	0.00	0.	0.87
138	8.000	21.68	0.69	369.00	1404.99	8.52	4.76	0.00	4.76	0.00	0.00	0.00	0.00	0.00	0.00	8.96	0.00	0.	0.87
139	7.900	21.68	0.69	369.00	1404.99	8.51	4.75	0.00	4.75	0.00	0.00	0.00	0.00	0.00	0.00	8.59	0.00	0.	0.86
140	7.800	21.68	0.69	368.99	1404.98	8.50	4.74	0.00	4.74	0.00	0.00	0.00	0.00	0.00	0.00	8.22	0.00	0.	0.86
141	7.700	21.68	0.69	368.99	1404.98	8.48	4.74	0.00	4.74	0.00	0.00	0.00	0.00	0.00	0.00	7.85	0.00	0.	0.86
142	7.600	21.68	0.69	368.99	1404.97	8.47	4.73	0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	7.47	0.00	0.	0.86
143	7.500	21.68	0.70	368.99	1404.96	8.46	4.73	0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	0.	0.86
144	7.400	21.68	0.70	368.98	1404.94	8.45	4.72	0.00	4.72	0.00	0.00	0.00	0.00	0.00	0.00	6.73	0.00	0.	0.85
145	7.300	21.68	0.70	368.97	1404.91	8.43	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	6.36	0.00	0.	0.85
146	7.200	21.68	0.70	368.96	1404.88	8.42	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	5.99	0.00	0.	0.85
147	7.100	21.68	0.70	368.93	1404.82	8.40	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	5.62	0.00	0.	0.85
148	7.000	21.68	0.70	368.90	1404.73	8.38	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	5.24	0.00	0.	0.85
149	6.900	21.68	0.70	368.86	1404.60	8.36	4.69	0.00	4.69	0.00	0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.	0.85
150	6.800	21.68	0.70	368.79	1404.41	8.34	4.69	0.00	4.69	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.85

FINAL REPORT
REACH NO. 9 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
151	UPR RCH	20.63600	21.68	0.70	368.79	1404.41	8.34	4.69	0.00	4.69	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.85

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
151	6.80	6.70	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
152	6.70	6.60	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
153	6.60	6.50	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
154	6.50	6.40	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
155	6.40	6.30	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
156	6.30	6.20	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
157	6.20	6.10	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
158	6.10	6.00	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
159	6.00	5.90	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
TOT						0.29			515592.00	237600.00					
AVG					0.03602		2.17	264.00			572.88				
CUM						5.80									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
151	6.700	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
152	6.600	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
153	6.500	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
154	6.400	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
155	6.300	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
156	6.200	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
157	6.100	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
158	6.000	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
159	5.900	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.54	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
151	6.700	21.68	0.70	368.70	1404.17	8.32	4.68	0.00	4.68	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.85
152	6.600	21.68	0.70	368.60	1403.88	8.30	4.68	0.00	4.68	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.86
153	6.500	21.68	0.70	368.45	1403.48	8.27	4.68	0.00	4.68	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.86
154	6.400	21.68	0.70	368.26	1402.93	8.25	4.68	0.00	4.68	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.87
155	6.300	21.68	0.70	367.99	1402.19	8.22	4.69	0.00	4.69	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.88
156	6.200	21.68	0.70	367.63	1401.18	8.19	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.90
157	6.100	21.68	0.70	367.13	1399.81	8.16	4.72	0.00	4.72	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.92
158	6.000	21.68	0.70	366.46	1397.94	8.12	4.75	0.00	4.75	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.95
159	5.900	21.68	0.70	365.55	1395.40	8.07	4.79	0.00	4.79	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.00

FINAL REPORT
REACH NO. 10 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
160	UPR RCH	20.63600	21.68	0.70	365.55	1395.40	8.07	4.79	0.00	4.79	0.00	0.00	0.00	0.00	0.00	4.50	0.00	1.00
163	WSTLD	6.16400	27.88	0.71	346.00	1341.00	6.25	6.50	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
160	5.90	5.80	20.63600	0.0	0.00990	0.12	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.010
161	5.80	5.70	20.63600	0.0	0.00990	0.12	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.010
162	5.70	5.60	20.63600	0.0	0.00990	0.12	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.010
163	5.60	5.50	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
164	5.50	5.40	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
165	5.40	5.30	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
166	5.30	5.20	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
167	5.20	5.10	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
168	5.10	5.00	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
169	5.00	4.90	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
170	4.90	4.80	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
171	4.80	4.70	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
172	4.70	4.60	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
173	4.60	4.50	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
TOT						1.34			2917964.00	1481200.00					
AVG					0.01208		1.97	1058.00			2084.26				
CUM						7.14									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
160	5.800	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
161	5.700	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
162	5.600	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.10	0.00
163	5.500	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.10	0.00
164	5.400	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.10	0.00
165	5.300	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.10	0.00
166	5.200	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.10	0.00
167	5.100	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.10	0.00
168	5.000	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.10	0.00
169	4.900	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.10	0.00
170	4.800	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.10	0.00
171	4.700	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.10	0.00
172	4.600	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.10	0.00
173	4.500	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.59	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
160	5.800	21.68	0.70	365.01	1393.91	8.04	4.81	0.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	4.45	0.00	0.	1.03
161	5.700	21.68	0.70	364.62	1392.81	8.02	4.83	0.00	4.83	0.00	0.00	0.00	0.00	0.00	0.00	4.39	0.00	0.	1.05
162	5.600	21.68	0.69	364.19	1391.61	8.00	4.86	0.00	4.86	0.00	0.00	0.00	0.00	0.00	0.00	4.34	0.00	0.	1.07
163	5.500	21.68	0.69	363.71	1390.28	7.97	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	4.29	0.00	0.	1.09
164	5.400	21.68	0.69	363.71	1390.28	7.98	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	4.23	0.00	0.	1.10
165	5.300	21.68	0.69	363.71	1390.28	7.99	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	4.18	0.00	0.	1.11
166	5.200	21.68	0.69	363.71	1390.28	8.01	4.87	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	4.12	0.00	0.	1.12
167	5.100	21.68	0.68	363.71	1390.28	8.02	4.87	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	4.07	0.00	0.	1.14
168	5.000	21.68	0.68	363.71	1390.28	8.03	4.87	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	4.02	0.00	0.	1.15
169	4.900	21.68	0.68	363.71	1390.28	8.04	4.87	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	3.96	0.00	0.	1.16
170	4.800	21.68	0.68	363.71	1390.28	8.05	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	3.91	0.00	0.	1.17
171	4.700	21.68	0.67	363.71	1390.28	8.06	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	3.86	0.00	0.	1.19
172	4.600	21.68	0.67	363.71	1390.28	8.07	4.90	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	3.80	0.00	0.	1.20
173	4.500	21.68	0.67	363.71	1390.28	8.08	4.92	0.00	4.92	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.21

FINAL REPORT
REACH NO. 11 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
174	UPR RCH	26.80000	21.68	0.67	363.71	1390.28	8.08	4.92	0.00	4.92	0.00	0.00	0.00	0.00	0.00	3.75	0.00	1.21

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
174	4.50	4.40	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
175	4.40	4.30	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
176	4.30	4.20	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
177	4.20	4.10	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
178	4.10	4.00	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
179	4.00	3.90	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
180	3.90	3.80	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
181	3.80	3.70	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
182	3.70	3.60	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
TOT						0.84			1938816.00	1101600.00					
AVG					0.01244		1.76	1224.00			2154.24				
CUM						7.98									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
174	4.400	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
175	4.300	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
176	4.200	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
177	4.100	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
178	4.000	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
179	3.900	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
180	3.800	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
181	3.700	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
182	3.600	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
174	4.400	21.68	0.67	363.71	1390.28	8.09	4.95	0.00	4.95	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.22
175	4.300	21.68	0.67	363.71	1390.29	8.10	4.97	0.00	4.97	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.23
176	4.200	21.68	0.67	363.71	1390.29	8.10	4.99	0.00	4.99	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.25
177	4.100	21.68	0.67	363.71	1390.29	8.11	5.02	0.00	5.02	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.26
178	4.000	21.68	0.67	363.71	1390.29	8.12	5.04	0.00	5.04	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.27
179	3.900	21.68	0.67	363.71	1390.29	8.12	5.06	0.00	5.06	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.28
180	3.800	21.68	0.67	363.71	1390.29	8.13	5.08	0.00	5.08	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.29
181	3.700	21.68	0.67	363.71	1390.29	8.13	5.10	0.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.29
182	3.600	21.68	0.67	363.71	1390.29	8.14	5.12	0.00	5.12	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.30

FINAL REPORT
REACH NO. 12 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
183	UPR RCH	26.80000	21.68	0.67	363.71	1390.29	8.14	5.12	0.00	5.12	0.00	0.00	0.00	0.00	0.00	3.75	0.00	1.30

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
183	3.60	3.50	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
184	3.50	3.40	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
185	3.40	3.30	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
186	3.30	3.20	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
187	3.20	3.10	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
188	3.10	3.00	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
189	3.00	2.90	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
190	2.90	2.80	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
TOT						0.63			1462480.00	808000.00					
AVG					0.01466		1.81	1010.00			1828.10				
CUM						8.61									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
183	3.500	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
184	3.400	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.10	0.00
185	3.300	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.10	0.00
186	3.200	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.10	0.00
187	3.100	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.10	0.00
188	3.000	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.10	0.00
189	2.900	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.10	0.00
190	2.800	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
183	3.500	21.68	0.67	363.71	1390.29	8.14	5.13	0.00	5.13	0.00	0.00	0.00	0.00	0.00	0.00	3.66	0.00	0.	1.31
184	3.400	21.68	0.67	363.71	1390.29	8.14	5.15	0.00	5.15	0.00	0.00	0.00	0.00	0.00	0.00	3.56	0.00	0.	1.32
185	3.300	21.68	0.66	363.71	1390.29	8.14	5.17	0.00	5.17	0.00	0.00	0.00	0.00	0.00	0.00	3.47	0.00	0.	1.33
186	3.200	21.68	0.66	363.71	1390.29	8.15	5.19	0.00	5.19	0.00	0.00	0.00	0.00	0.00	0.00	3.38	0.00	0.	1.33
187	3.100	21.68	0.66	363.71	1390.29	8.15	5.20	0.00	5.20	0.00	0.00	0.00	0.00	0.00	0.00	3.28	0.00	0.	1.34
188	3.000	21.68	0.65	363.71	1390.29	8.15	5.22	0.00	5.22	0.00	0.00	0.00	0.00	0.00	0.00	3.19	0.00	0.	1.34
189	2.900	21.68	0.65	363.71	1390.29	8.15	5.23	0.00	5.23	0.00	0.00	0.00	0.00	0.00	0.00	3.09	0.00	0.	1.35
190	2.800	21.68	0.65	363.71	1390.29	8.15	5.24	0.00	5.24	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.35

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
191	UPR RCH	26.80000	21.68	0.65	363.71	1390.29	8.15	5.24	0.00	5.24	0.00	0.00	0.00	0.00	0.00	3.00	0.00	1.35

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
191	2.80	2.70	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
192	2.70	2.60	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
193	2.60	2.50	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
194	2.50	2.40	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
195	2.40	2.30	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
196	2.30	2.20	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
197	2.20	2.10	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
198	2.10	2.00	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
199	2.00	1.90	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
200	1.90	1.80	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
201	1.80	1.70	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
202	1.70	1.60	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
203	1.60	1.50	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
204	1.50	1.40	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
205	1.40	1.30	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
206	1.30	1.20	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
TOT						0.64			1480000.00	800000.00					
AVG					0.02897		1.85	500.00			925.00				
CUM						9.25									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
191	2.700	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
192	2.600	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
193	2.500	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
194	2.400	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
195	2.300	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
196	2.200	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
197	2.100	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
198	2.000	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
199	1.900	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
200	1.800	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00

201	1.700	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
202	1.600	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
203	1.500	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
204	1.400	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
205	1.300	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
206	1.200	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.63	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
191	2.700	21.68	0.65	363.71	1390.29	8.15	5.25	0.00	5.25	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.36
192	2.600	21.68	0.65	363.71	1390.28	8.15	5.26	0.00	5.26	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.36
193	2.500	21.68	0.65	363.71	1390.28	8.15	5.28	0.00	5.28	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.37
194	2.400	21.68	0.65	363.71	1390.28	8.15	5.29	0.00	5.29	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.37
195	2.300	21.68	0.65	363.71	1390.27	8.15	5.31	0.00	5.31	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.38
196	2.200	21.68	0.65	363.71	1390.27	8.15	5.32	0.00	5.32	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.38
197	2.100	21.68	0.65	363.70	1390.26	8.15	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.39
198	2.000	21.68	0.65	363.70	1390.25	8.15	5.35	0.00	5.35	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.39
199	1.900	21.68	0.65	363.70	1390.24	8.15	5.36	0.00	5.36	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.40
200	1.800	21.68	0.65	363.69	1390.22	8.15	5.37	0.00	5.37	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.40
201	1.700	21.68	0.65	363.69	1390.20	8.16	5.38	0.00	5.38	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.41
202	1.600	21.68	0.65	363.68	1390.18	8.16	5.39	0.00	5.39	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.41
203	1.500	21.68	0.65	363.67	1390.15	8.16	5.41	0.00	5.41	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.41
204	1.400	21.68	0.65	363.66	1390.10	8.16	5.41	0.00	5.41	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.42
205	1.300	21.68	0.65	363.64	1390.05	8.16	5.42	0.00	5.42	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.42
206	1.200	21.68	0.65	363.62	1389.98	8.16	5.43	0.00	5.43	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.42

FINAL REPORT
REACH NO. 14 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
207	UPR RCH	26.80000	21.68	0.65	363.62	1389.98	8.16	5.43	0.00	5.43	0.00	0.00	0.00	0.00	0.00	3.00	0.00	1.42

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
207	1.20	1.10	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
208	1.10	1.00	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
209	1.00	0.90	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068

210	0.90	0.80	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
211	0.80	0.70	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
212	0.70	0.60	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
213	0.60	0.50	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
214	0.50	0.40	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
215	0.40	0.30	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
216	0.30	0.20	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
217	0.20	0.10	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
218	0.10	0.00	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
TOT						0.20			472860.00	255600.00					
AVG					0.06801		1.85	213.00			394.05				
CUM						9.45									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
207	1.100	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
208	1.000	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
209	0.900	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
210	0.800	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
211	0.700	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
212	0.600	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
213	0.500	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
214	0.400	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
215	0.300	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
216	0.200	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
217	0.100	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
218	0.000	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.88	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
207	1.100	21.68	0.65	363.58	1389.85	8.16	5.43	0.00	5.43	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.42
208	1.000	21.68	0.65	363.49	1389.55	8.16	5.44	0.00	5.44	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.42
209	0.900	21.68	0.65	363.34	1389.04	8.16	5.45	0.00	5.45	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.43
210	0.800	21.68	0.65	363.09	1388.18	8.16	5.45	0.00	5.45	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.43
211	0.700	21.68	0.65	362.67	1386.74	8.15	5.46	0.00	5.46	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.43
212	0.600	21.68	0.64	361.96	1384.33	8.14	5.47	0.00	5.47	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.43
213	0.500	21.68	0.64	360.78	1380.27	8.11	5.48	0.00	5.48	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.43
214	0.400	21.68	0.64	358.78	1373.46	8.07	5.49	0.00	5.49	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.43
215	0.300	21.68	0.64	355.42	1362.00	8.00	5.50	0.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.44
216	0.200	21.68	0.64	349.78	1342.76	7.88	5.52	0.00	5.52	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.43
217	0.100	21.68	0.64	340.30	1310.44	7.67	5.54	0.00	5.54	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.43
218	0.000	21.68	0.64	324.38	1256.13	7.31	5.57	0.00	5.57	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.43

STREAM SUMMARY

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

TRAVEL TIME	=	9.45	DAYS		
MAXIMUM EFFLUENT	=	23.00	PERCENT		
FLOW	=	20.63600	TO	26.80000	m^3/s
DISPERSION	=	10.0000	TO	10.0000	m^2/s
VELOCITY	=	0.00990	TO	0.06801	m/s
DEPTH	=	1.76	TO	2.50	m
WIDTH	=	180.00	TO	******	m
BOD DECAY	=	0.05	TO	0.05	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.04	TO	1.73	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.48	TO	0.91	per day
BOD SETTLING	=	0.00	TO	0.00	per day
ORG-N DECAY	=	0.00	TO	0.00	per day
ORG-N SETTLING	=	0.00	TO	0.00	per day
TEMPERATURE	=	21.68	TO	21.68	deg C
DISSOLVED OXYGEN	=	6.38	TO	8.57	mg/L

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO NATURAL CONDITIONS (no man made loads)

INPUT/OUTPUT LOADING SUMMARY

	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER INFLOW	26.800	14541.5	10558.8	0.0	0.0	0.0	0.0	0.0	0.0	1991.3
INCREMENTAL INFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	6.164	3328.6	3461.7	0.0	0.0	0.0	0.0	0.0	0.0	703.0
WITHDRAWLS	-6.164	-4467.0	-2618.1	0.0	0.0	0.0	0.0	0.0	0.0	-496.3
OUTFLOW THRU LOWER BNDRY	-26.800	-16923.4	-12890.2	0.0	0.0	0.0	0.0	0.0	0.0	-3301.3
DISPERSION THRU LOWER BNDRY		-2101.9	157.6	0.0	0.0	0.0	0.0	0.0	0.0	-39.0
NON-POINT INPUT		0.0	6748.0	0.0	0.0					3340.0
NATURAL REAERATION		11948.0								
DAM REAERATION		0.0								
BACKGROUND SOD		-5954.8								
BOD#1 DECAY		-5417.8	-5417.8							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY			0.0							
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY				0.0						
ORG-N DECAY		0.0			0.0	0.0				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		0.0				0.0	0.0			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		7244.6				0.0	0.0	0.0	0.0	
ALGAE RESPIRATION		0.0				0.0		0.0	0.0	
ALGAE SETTLING		0.0							0.0	
MACRO PHOTOSYNTHESIS		0.0				0.0	0.0	0.0		
NCM DECAY		-2197.8								-2197.8
NCM SETTLING		0.0								0.0
TOTAL INPUTS	32.964	37062.6	20926.1	0.0	0.0	0.0	0.0	0.0	0.0	6034.3
TOTAL OUTPUTS	-32.964	-37062.7	-20926.0	0.0	0.0	0.0	0.0	0.0	0.0	-6034.4
NET CONVERGENCE ERROR	0.000	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

.....EXECUTION COMPLETED

APPENDIX Q

Projections NPS Loads and Calculations

Summer TMDL Summary:

Bayou des Allemands

Calculation of the TMDL - Kilograms per day			
Load description	WLA (kg/day)	LA (kg/day)	MOS Load (kg/day)
Point Source loads	16		4
Headwater / Tributatary loads		16,715	0
Benthic loads		22,910	563
Incremental Loads		0	0
SUB-TOTAL	**16**	**39,625**	**567**
TMDL = WLA + LA + MOS		***40,208 kg/day***	

Notes:

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

Calculation of the TMDL - Kilograms per day			
Load description	WLA (kg/day)	LA (kg/day)	MOS Load (kg/day)
Point Source loads	16		4
Natural Nonpoint Loads		37,374	
Manmade Nonpoint Loads		2,251	563
SUB-TOTAL	**16**	**39,625**	**567**
TMDL = WLA + LA + MOS		***40,208 kg/day***	

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Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Bayou des Allemands

Shaded cells are input values for calculations.

REACH NUMBER & DESCRIPTION	Calibration Model Reach Length (km)	Calibration Model Average Reach Width (meters)	Calibration Model UCBOD Nonpoint loading (kg/day)	Calibration Model UNBOD Nonpoint loading (kg/day)	Calibration Model UCBOD Nonpoint loading (gm O_2/m^2/day)	Calibration Model UNBOD Nonpoint loading (gm O_2/m^2/day)	Calibration Model SOD (gm O_2/m^2/day)	Calibration Model TOTAL Benthic Load (gm O_2/m^2/day)
	A	**B**	**C**	**D**	**E = C / (A x B)**	**F = D / (A x B)**	**G**	**H = E + F + G**
Reach 1: Bayou des Allemands	3.00	404	750	375	0.619	0.309	3.25	**4.18**
Reach 2: Bayou des Allemands	3.20	342	1400	700	1.279	0.640	3.00	**4.92**
Reach 3: Bayou des Allemands	1.60	440	4220	2110	5.994	2.997	0.20	**9.19**
Reach 4: Bayou des Allemands	1.00	267	1080	540	4.045	2.022	0.20	**6.27**
Reach 5: Bayou des Allemands	1.40	334	750	5	1.604	0.011	0.20	**1.81**
Reach 6: Bayou des Allemands	1.50	398	500	6	0.838	0.010	0.20	**1.05**
Reach 7: Bayou des Allemands	1.70	231	4	4	0.010	0.010	0.5	**0.52**
Reach 8: Bayou des Allemands	1.60	180	3	3	0.010	0.010	1.5	**1.52**
Reach 9: Bayou des Allemands	0.90	264	2	2	0.008	0.008	1.5	**1.52**
Reach 10: Bayou des Allemands	1.40	1058	15	741	0.010	0.500	0.2	**0.71**
Reach 11: Bayou des Allemands	0.90	1224	1102	551	1.000	0.500	0.2	**1.70**
Reach 12: Bayou des Allemands	0.80	1010	889	404	1.100	0.500	0.2	**1.80**
Reach 13: Bayou des Allemands	1.60	500	960	400	1.200	0.500	0.2	**1.90**
Reach 14: Bayou des Allemands	1.20	213	332	128	1.299	0.501	0.2	**2.00**

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

Modeled stream or water body:	Bayou des Allemands

Shaded cells are input values for calculations.

Values to be used in the projection models.

	Calibration Model Values												Projection Model Equivalents				Projected Model Loads				Margin of Safety Loads					
Reach Number and Description	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Total Calb. Benthic Load (TCBL)	Reach Length	Back-ground Benthic Load	Back-ground percentage reduction	Back-ground Benthic Load adjusted for % reduction	Proj. Model Avg. Reach Width	Proj. Temp.	Percentage Reduction of man-made sources	TCBL adjusted for % reduction (Reduced TCBL)	Reduced TCBL adjusted for MOS	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	SOD load @ Proj. temp.	Total Projection Benthic Load **(LA+MOS)**	MOS Total Benthic Load @ 20°C	MOS SOD @ 20°C	Non-Point UCBOD MOS Loads	Non-Point UNBOD MOS Loads	Adjusted SOD MOS @ Proj. temp	Adjusted Total MOS @ Proj. temp
	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	Kilo-meters	gm O_2 / [(m^2)(day)]	%	gm O_2 / [(m^2)(day)]	Meters	(degrees Celcius)	%	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)
	A, (note 1)	**B,** (note 1)	**C,** (note 1)	**D,** (note 1)	**E,** (note 1)	**F1**	**F2**	**F = F1*(1-F2)**	**G**	**I**	**H**	**J,** (note 2)	**K,** (note 3)	**L = (K)(A / D)**	**M = (K)(B / D)**	**N = (K)(C / D)**	**O = (E)(G)(L)**	**P = (E)(G)(M)**	**Q,** (note 4)	**O + P + Q**	**R = (K-J)(E)(G)**	**S = (R)(C/D)**	**T = (R)(A/D)**	**U = (R)(B/D)**	**V,** (note 5)	**T + U + V**
Reach 1: Bayou des Allemands	0.619	0.309	3.25	4.178	3.00	2.00	0%	2.00	404.00	30.80	86.0%	2.30	2.38	0.353	0.176	1.85	427	214	4432	5072.78	92	72	14	7	142	162
Reach 2: Bayou des Allemands	1.279	0.640	3.00	4.919	3.20	2.00	0%	2.00	342.00	30.80	86.0%	2.41	2.51	0.653	0.326	1.53	715	357	3308	4380.35	112	68	29	15	135	178
Reach 3: Bayou des Allemands	5.994	2.997	0.20	9.191	1.60	2.00	0%	2.00	440.00	30.80	86.0%	3.01	3.26	2.125	1.063	0.07	1496	748	99	2342.61	177	4	116	58	8	181
Reach 4: Bayou des Allemands	4.045	2.022	0.20	6.267	1.00	2.00	0%	2.00	267.00	30.80	86.0%	2.60	2.75	1.773	0.886	0.09	473	237	46	756.19	40	1	26	13	3	41
Reach 5: Bayou des Allemands	1.604	0.011	0.20	1.815	1.40	2.00	0%	2.00	334.00	30.80	86.0%	1.81	1.81	1.604	0.011	0.20	750	5	185	939.62	0	0	0	0	0	0
Reach 6: Bayou des Allemands	0.838	0.010	0.20	1.048	1.50	2.00	0%	2.00	398.00	30.80	86.0%	1.05	1.05	0.838	0.010	0.20	500	6	236	741.71	0	0	0	0	0	0
Reach 7: Bayou des Allemands	0.010	0.010	0.50	0.520	1.70	2.00	0%	2.00	231.00	30.80	86.0%	0.52	0.52	0.010	0.010	0.50	4	4	388	395.62	0	0	0	0	0	0
Reach 8: Bayou des Allemands	0.010	0.010	1.50	1.521	1.60	2.00	0%	2.00	180.00	30.80	86.0%	1.52	1.52	0.010	0.010	1.50	3	3	853	858.82	0	0	0	0	0	0
Reach 9: Bayou des Allemands	0.008	0.008	1.50	1.517	0.90	2.00	0%	2.00	264.00	30.80	86.0%	1.52	1.52	0.008	0.008	1.50	2	2	704	707.58	0	0	0	0	0	0
Reach 10: Bayou des Allemands	0.010	0.500	0.20	0.710	1.40	2.00	0%	2.00	1058.00	30.80	86.0%	0.71	0.71	0.010	0.500	0.20	15	741	585	1340.82	0	0	0	0	0	0
Reach 11: Bayou des Allemands	1.000	0.500	0.20	1.701	0.90	2.00	0%	2.00	1224.00	30.80	86.0%	1.70	1.70	1.000	0.500	0.20	1102	551	435	2087.94	0	0	0	0	0	0
Reach 12: Bayou des Allemands	1.100	0.500	0.20	1.800	0.80	2.00	0%	2.00	1010.00	30.80	86.0%	1.80	1.80	1.100	0.500	0.20	889	404	319	1612.02	0	0	0	0	0	0
Reach 13: Bayou des Allemands	1.200	0.500	0.20	1.900	1.60	2.00	0%	2.00	500.00	30.80	86.0%	1.90	1.90	1.200	0.500	0.20	960	400	316	1675.86	0	0	0	0	0	0
Reach 14: Bayou des Allemands	1.299	0.501	0.20	2.000	1.20	2.00	0%	2.00	213.00	30.80	86.0%	2.00	2.00	1.299	0.501	0.20	332	128	101	560.92	0	0	0	0	0	0
Sub-Total												24.85					7668	3800	12005	**23473**	421		184	92	287	**563**

Notes: Note 1, Data was calculated in and brought from the Calibration worksheet dataset.

Note 2, **J** = [(1 - **H**) x (**D** - **F**) + **F**]

Note 3, **K** = [(**J** - **F**) / (1 - MOS) + **F**]

Note 4, **Q** = **E** x **G** x **N** x $1.065^{(I-20)}$

Note 5, **V** = **S** x $1.065^{(I-20)}$

Note 6, **AC** = **E** x **G** x **Z** x $1.065^{(I-20)}$

EXPLICIT MARGINS:

MARGIN OF SAFETY (MOS) (%) = [MOG + MOU] =	**20%**

FILE: R:\PROJECTS\3110-051\DES ALLEMANDS PDF\TMDL LOAD CALC FOR DES_ALL.XLS

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

Modeled stream or water body:	Bayou des Allemands

Shaded cells are input values for calculations.

Values to be used in the projection models.

	Calibration Model Values												Man-made Model equivalents				Man-made Model loads				Background Model loads			
Reach Number and Description	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Total Calb. Benthic Load (TCBL)	Reach Length	Back-ground Benthic Load	Back-ground percentage reduction	Back-ground Benthic Load adjusted for % reduction	Proj. Model Avg. Reach Width	Proj. Temp.	Percentage Reduction of man-made sources	TCBL adjusted for % reduction (Reduced TCBL)	Manmade portion of TCBL	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	SOD load @ Proj. temp.	Man-made Total Projection Benthic Load	Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	SOD load @ Proj. temp.	Man-made Total Projection Benthic Load
	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	Kilo-meters	gm O_2 / [(m^2)(day)]	%	gm O_2 / [(m^2)(day)]	Meters	(degrees Celcius)	%	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)
	A, (note 1)	**B,** (note 1)	**C,** (note 1)	**D,** (note 1)	**E,** (note 1)	**F1**	**F2**	**F = F1*(1-F2)**	**G**	**I**	**H**	**J,** (note 2)	**W = K - F**	**X = (W)(A / D)**	**Y = (W)(B / D)**	**Z = (W)(C / D)**	**AA = (E)(G)(X)**	**AB = (E)(G)(Y)**	**AC,** (note 6)	**AA + AB + AC**	**AD = O AA**	**AE = P AB**	**AF = Q AC**	**AD + AE + AF**
Reach 1: Bayou des Allemands	0.619	0.309	3.25	4.178	3.00	2.00	0%	2.00	404.00	30.80	86.0%	2.30	0.38	0.056	0.028	0.30	68	34	709	812.07	359	180	3722	4260.72
Reach 2: Bayou des Allemands	1.279	0.640	3.00	4.919	3.20	2.00	0%	2.00	342.00	30.80	86.0%	2.41	0.51	0.133	0.066	0.31	145	73	673	891.14	569	285	2635	3489.21
Reach 3: Bayou des Allemands	5.994	2.997	0.20	9.191	1.60	2.00	0%	2.00	440.00	30.80	86.0%	3.01	1.26	0.821	0.410	0.03	578	289	38	904.77	918	459	60	1437.84
Reach 4: Bayou des Allemands	4.045	2.022	0.20	6.267	1.00	2.00	0%	2.00	267.00	30.80	86.0%	2.60	0.75	0.482	0.241	0.02	129	64	13	205.59	345	172	34	550.60
Reach 5: Bayou des Allemands	1.604	0.011	0.20	1.815	1.40	2.00	0%	2.00	334.00	30.80	86.0%	1.81	0.00	0.000	0.000	0.00	0	0	0	0.00	750	5	185	939.62
Reach 6: Bayou des Allemands	0.838	0.010	0.20	1.048	1.50	2.00	0%	2.00	398.00	30.80	86.0%	1.05	0.00	0.000	0.000	0.00	0	0	0	0.00	500	6	236	741.71
Reach 7: Bayou des Allemands	0.010	0.010	0.50	0.520	1.70	2.00	0%	2.00	231.00	30.80	86.0%	0.52	0.00	0.000	0.000	0.00	0	0	0	0.00	4	4	388	395.62
Reach 8: Bayou des Allemands	0.010	0.010	1.50	1.521	1.60	2.00	0%	2.00	180.00	30.80	86.0%	1.52	0.00	0.000	0.000	0.00	0	0	0	0.00	3	3	853	858.82
Reach 9: Bayou des Allemands	0.008	0.008	1.50	1.517	0.90	2.00	0%	2.00	264.00	30.80	86.0%	1.52	0.00	0.000	0.000	0.00	0	0	0	0.00	2	2	704	707.58
Reach 10: Bayou des Allemands	0.010	0.500	0.20	0.710	1.40	2.00	0%	2.00	1058.00	30.80	86.0%	0.71	0.00	0.000	0.000	0.00	0	0	0	0.00	15	741	585	1340.82
Reach 11: Bayou des Allemands	1.000	0.500	0.20	1.701	0.90	2.00	0%	2.00	1224.00	30.80	86.0%	1.70	0.00	0.000	0.000	0.00	0	0	0	0.00	1102	551	435	2087.94
Reach 12: Bayou des Allemands	1.100	0.500	0.20	1.800	0.80	2.00	0%	2.00	1010.00	30.80	86.0%	1.80	0.00	0.000	0.000	0.00	0	0	0	0.00	889	404	319	1612.02
Reach 13: Bayou des Allemands	1.200	0.500	0.20	1.900	1.60	2.00	0%	2.00	500.00	30.80	86.0%	1.90	0.00	0.000	0.000	0.00	0	0	0	0.00	960	400	316	1675.86
Reach 14: Bayou des Allemands	1.299	0.501	0.20	2.000	1.20	2.00	0%	2.00	213.00	30.80	86.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	332	128	101	560.92
Sub-Total												24.85					920	460	1433	**2814**	6748	3340	10572	**20659**

Notes: Note 1, Data was calculated in and brought from the Calibration worksheet dataset.

Note 2, **J** = [(1 - **H**) x (**D** - **F**) + **F**]

Note 3, **K** = [(**J** - **F**) / (1 - MOS) + **F**]

Note 4, **Q** = **E** x **G** x **N** x $1.065^{(I-20)}$

Note 5, **V** = **S** x $1.065^{(I-20)}$

Note 6, **AC** = **E** x **G** x **Z** x $1.065^{(I-20)}$

EXPLICIT MARGINS:

MARGIN OF SAFETY (MOS) (%) = [MOG + MOU] =	**20%**

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Summer TMDL Calculations for Point Source loads:

Bayou des Allemands

Input data into the shaded cells.

Point Source Loading Calculations

Pt. Source / Facility Description and Reach #	Receiving Stream	Included in the Projection Model (Yes/No)	Anticipated/ design flow (cms)	Flow with MOS (cms)	Proposed Permit Limits			UCBOD				UNBOD				Sub-total of Point Source Loads		
					$CBOD_5$ (mg/l)	NH_3N (mg/l)	MOS (%)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	**Loads (kg/day)**	**WLA (kg/day)**	**Reserve/ MOS (kg/day)**
			A	**A1 = A/(1-D)**	**B**	**C**	**D**	**E = 2.3 x B**	**F = (86.4)(A1)(E)**	**G = (1-D) x F**	**H = (D)(F)**	**I**	**J = (86.4)(A1)(I)**	**K = (1-D) x J**	**L = (D)(J)**	**F + J**	**G + K**	**H + L**
PHAT DADDY'S	"GODCHAUX CANAL, VIA LOCAL DRAINAGE"	No	0.000438	0.0005475	15.0		20%	34.5	1.63	1.31	0.33	34.5	1.63	1.31	0.33	**3.26**	**2.61**	**0.65**
RACELAND RAW SUGARS CORPORATION	GODCHAUX CANAL	No	0.00438	0.005475	5.0		20%	11.5	5.44	4.35	1.09	11.5	5.44	4.35	1.09	**10.88**	**8.70**	**2.18**
GIBBENS & LEFORT INC	GODCHAUX CANAL	No	0.0003285	0.000410625	15.0		20%	34.5	1.22	0.98	0.24	34.5	1.22	0.98	0.24	**2.45**	**1.96**	**0.49**
JUDY'S TRAILER PARK	UNNAMED CANAL-BAYOU DES ALLEMANDS	No	0.00007884	0.00009855	15.0		20%	34.5	0.29	0.24	0.06	34.5	0.29	0.24	0.06	**0.59**	**0.47**	**0.12**
SOMME'S LUCKY 7 TRUCK STOP	LAKE DES ALLEMANDS	No	0.000438	0.0005475	15.0		20%	34.5	1.63	1.31	0.33	34.5	1.63	1.31	0.33	**3.26**	**2.61**	**0.65**
SUB-TOTAL Loads									**10.22**	**8.18**	**2.04**		**10.22**	**8.18**	**2.04**	**20.44**	**16.35**	**4.09**

(1) - Load(kg/day) = 86.4 x Ultimate Conc.(mg/l) x Modeled Flow(cms)

(2) - [UCBOD conc. = CBOD5(mg/l) x 2.3] and [UNBOD conc. = NH3N(mg/l) x 4.3]

The flows in the Point source table have been converted from cfs to cms. Also the total BOD5 was multiplied by 2.3 and divided equally between CBODu and NBODu.

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

Bayou des Allemands

Shaded cells are input values for calculations.
Values to be used in the projection models.

Headwater / Tributary load determinations

Headwater / Tributary Description and Reach #	Seasonal Critical flow (cms)	UCBOD (mg/l)	UNBOD (mg/l)	UCBOD (kg/day)	UNBOD (kg/day)	Background UCBOD conc. (mg/l)	Background UNBOD conc. (mg/l)	Background % Reduction	Background UCBOD Load (kg/day)	Background UNBOD Load (kg/day)	Percent reduction of Man-Made loads	UCBOD load adjusted for % Reduction (kg/day)	UNBOD load adjusted for % Reduction (kg/day)	Reduced UCBOD load adjusted for MOS (kg/day)	Reduced UNBOD load adjusted for MOS (kg/day)	Projection UCBOD input conc. (mg/l)	Projection UNBOD input conc. (mg/l)	**Total MOS (kg/day)**	**Total LA (kg/day)**
	A	**B**	**C**	**D = (86.4)(A)(B)**	**E = (86.4)(A)(C)**	**F**	**G**	**H1**	**H = (1-H1) (86.4)(A)(F)**	**I = (1-H1) (86.4)(A)(G)**	**J**	**K = (D-H)(1-J) + H**	**L = (D-I)(1-J) + I**	**M = (K - H) / (1 - MOS) + H**	**N = (L - I) / (1 - MOS) + I**	**(M)/[(A)(86.4)]**	**(N)/[(A)(86.4)]**	**(M+N) - (K+L)**	**K + L**
Lake Salvador	26.80	4.6	0.9	10558.77	1991.35	4.56	0.86	0%	10558.77	1991.35	0%	10558.77	1991.35	10558.77	1991.35	4.56	0.86	**0.00**	**12,550.12**
B. Gauche DS																			
B. Gauche US	6.16	6.5	1.3	3461.70	702.99	6.50	1.32	0%	3461.70	702.99	86%	3461.70	702.99	3461.70	702.99	6.50	1.32	**0.00**	**4,164.69**
SUB-TOTAL TMDL LOADING				**14,020**	**2,694**				**14,020**	**2,694**		**14,020**	**2,694**	**14,020**	**2,694**			**0**	**16,715**

FILE: R:\PROJECTS\3110-051\LA-QUAL\DES_ALL\REVISIONS\TMDL LOAD CALC FOR DES_ALL.XLS

EXPLICIT MARGINS:

MARGIN OF SAFETY (MOS) (%) =	**20%**

Winter TMDL Summary:

Bayou des Allemands

Calculation of the TMDL - Kilograms per day			
Load description	WLA (kg/day)	LA (kg/day)	MOS Load (kg/day)
Point Source loads	16		4
Headwater / Tributatary loads		16,715	0
Benthic loads		28,540	3,125
Incremental Loads		0	0
SUB-TOTAL	**16**	**45,255**	**3,129**
TMDL = WLA + LA + MOS		***48,400 kg/day***	

Notes:

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

Calculation of the TMDL - Kilograms per day			
Load description	WLA (kg/day)	LA (kg/day)	MOS Load (kg/day)
Point Source loads	16		4
Natural Nonpoint Loads		32,756	
Manmade Nonpoint Loads		12,499	3,125
SUB-TOTAL	**16**	**45,255**	**3,129**
TMDL = WLA + LA + MOS		***48,400 kg/day***	

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Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Bayou des Allemands

Shaded cells are input values for calculations.

REACH NUMBER & DESCRIPTION	Calibration Model Reach Length (km)	Calibration Model Average Reach Width (meters)	Calibration Model UCBOD Nonpoint loading (kg/day)	Calibration Model UNBOD Nonpoint loading (kg/day)	Calibration Model UCBOD Nonpoint loading (gm O_2/m^2/day)	Calibration Model UNBOD Nonpoint loading (gm O_2/m^2/day)	Calibration Model SOD (gm O_2/m^2/day)	Calibration Model TOTAL Benthic Load (gm O_2/m^2/day)
	A	**B**	**C**	**D**	**E = C / (A x B)**	**F = D / (A x B)**	**G**	**H = E + F + G**
Reach 1: Bayou des Allemands	3.00	404	750	375	0.619	0.309	3.25	**4.18**
Reach 2: Bayou des Allemands	3.20	342	1400	700	1.279	0.640	3.00	**4.92**
Reach 3: Bayou des Allemands	1.60	440	4220	2110	5.994	2.997	0.20	**9.19**
Reach 4: Bayou des Allemands	1.00	267	1080	540	4.045	2.022	0.20	**6.27**
Reach 5: Bayou des Allemands	1.40	334	750	5	1.604	0.011	0.20	**1.81**
Reach 6: Bayou des Allemands	1.50	398	500	6	0.838	0.010	0.20	**1.05**
Reach 7: Bayou des Allemands	1.70	231	4	4	0.010	0.010	0.5	**0.52**
Reach 8: Bayou des Allemands	1.60	180	3	3	0.010	0.010	1.5	**1.52**
Reach 9: Bayou des Allemands	0.90	264	2	2	0.008	0.008	1.5	**1.52**
Reach 10: Bayou des Allemands	1.40	1058	15	741	0.010	0.500	0.2	**0.71**
Reach 11: Bayou des Allemands	0.90	1224	1102	551	1.000	0.500	0.2	**1.70**
Reach 12: Bayou des Allemands	0.80	1010	889	404	1.100	0.500	0.2	**1.80**
Reach 13: Bayou des Allemands	1.60	500	960	400	1.200	0.500	0.2	**1.90**
Reach 14: Bayou des Allemands	1.20	213	332	128	1.299	0.501	0.2	**2.00**

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

Modeled stream or water body:	Bayou des Allemands

Shaded cells are input values for calculations.

Values to be used in the projection models.

	Calibration Model Values												Projection Model Equivalents				Projected Model Loads				Margin of Safety Loads					
Reach Number and Description	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Total Calb. Benthic Load (TCBL)	Reach Length	Back-ground Benthic Load	Back-ground percentage reduction	Back-ground Benthic Load adjusted for % reduction	Proj. Model Avg. Reach Width	Proj. Temp.	Percentage Reduction of man-made sources	TCBL adjusted for % reduction (Reduced TCBL)	Reduced TCBL adjusted for MOS	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	SOD load @ Proj. temp.	Total Projection Benthic Load **(LA+MOS)**	MOS Total Benthic Load @ 20°C	MOS SOD @ 20°C	Non-Point UCBOD MOS Loads	Non-Point UNBOD MOS Loads	Adjusted SOD MOS @ Proj. temp	Adjusted Total MOS @ Proj. temp
	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	Kilo-meters	gm O_2 / [(m^2)(day)]	%	gm O_2 / [(m^2)(day)]	Meters	(degrees Celcius)	%	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)
	A, (note 1)	**B,** (note 1)	**C,** (note 1)	**D,** (note 1)	**E,** (note 1)	**F1**	**F2**	**F = F1*(1-F2)**	**G**	**I**	**H**	**J,** (note 2)	**K,** (note 3)	**L = (K)(A / D)**	**M = (K)(B / D)**	**N = (K)(C / D)**	**O = (E)(G)(L)**	**P = (E)(G)(M)**	**Q,** (note 4)	**O + P + Q**	**R = (K-J)(E)(G)**	**S = (R)(C/D)**	**T = (R)(A/D)**	**U = (R)(B/D)**	**V,** (note 5)	**T + U + V**
Reach 1: Bayou des Allemands	0.619	0.309	3.25	4.178	3.00	2.00	0%	2.00	404.00	21.68	0.0%	4.18	4.72	0.699	0.350	3.67	848	424	4949	6220.87	660	513	98	49	571	717
Reach 2: Bayou des Allemands	1.279	0.640	3.00	4.919	3.20	2.00	0%	2.00	342.00	21.68	0.0%	4.92	5.65	1.469	0.735	3.45	1608	804	4191	6602.55	799	487	208	104	541	853
Reach 3: Bayou des Allemands	5.994	2.997	0.20	9.191	1.60	2.00	0%	2.00	440.00	21.68	0.0%	9.19	10.99	7.167	3.583	0.24	5045	2523	187	7755.29	1266	28	825	413	31	1269
Reach 4: Bayou des Allemands	4.045	2.022	0.20	6.267	1.00	2.00	0%	2.00	267.00	21.68	0.0%	6.27	7.33	4.733	2.367	0.23	1264	632	69	1965.22	285	9	184	92	10	286
Reach 5: Bayou des Allemands	1.604	0.011	0.20	1.815	1.40	2.00	0%	2.00	334.00	21.68	0.0%	1.81	1.81	1.604	0.011	0.20	750	5	104	858.96	0	0	0	0	0	0
Reach 6: Bayou des Allemands	0.838	0.010	0.20	1.048	1.50	2.00	0%	2.00	398.00	21.68	0.0%	1.05	1.05	0.838	0.010	0.20	500	6	133	638.72	0	0	0	0	0	0
Reach 7: Bayou des Allemands	0.010	0.010	0.50	0.520	1.70	2.00	0%	2.00	231.00	21.68	0.0%	0.52	0.52	0.010	0.010	0.50	4	4	218	226.26	0	0	0	0	0	0
Reach 8: Bayou des Allemands	0.010	0.010	1.50	1.521	1.60	2.00	0%	2.00	180.00	21.68	0.0%	1.52	1.52	0.010	0.010	1.50	3	3	480	486.21	0	0	0	0	0	0
Reach 9: Bayou des Allemands	0.008	0.008	1.50	1.517	0.90	2.00	0%	2.00	264.00	21.68	0.0%	1.52	1.52	0.008	0.008	1.50	2	2	396	400.17	0	0	0	0	0	0
Reach 10: Bayou des Allemands	0.010	0.500	0.20	0.710	1.40	2.00	0%	2.00	1058.00	21.68	0.0%	0.71	0.71	0.010	0.500	0.20	15	741	329	1085.30	0	0	0	0	0	0
Reach 11: Bayou des Allemands	1.000	0.500	0.20	1.701	0.90	2.00	0%	2.00	1224.00	21.68	0.0%	1.70	1.70	1.000	0.500	0.20	1102	551	245	1897.91	0	0	0	0	0	0
Reach 12: Bayou des Allemands	1.100	0.500	0.20	1.800	0.80	2.00	0%	2.00	1010.00	21.68	0.0%	1.80	1.80	1.100	0.500	0.20	889	404	180	1472.63	0	0	0	0	0	0
Reach 13: Bayou des Allemands	1.200	0.500	0.20	1.900	1.60	2.00	0%	2.00	500.00	21.68	0.0%	1.90	1.90	1.200	0.500	0.20	960	400	178	1537.86	0	0	0	0	0	0
Reach 14: Bayou des Allemands	1.299	0.501	0.20	2.000	1.20	2.00	0%	2.00	213.00	21.68	0.0%	2.00	2.00	1.299	0.501	0.20	332	128	57	516.82	0	0	0	0	0	0
Sub-Total												39.09					13322	6626	11717	**31665**	3009		1315	657	1153	**3125**

Notes: Note 1, Data was calculated in and brought from the Calibration worksheet dataset.

Note 2, **J** = [(1 - **H**) x (**D** - **F**) + **F**]

Note 3, **K** = [(**J** - **F**) / (1 - MOS) + **F**]

Note 4, **Q** = **E** x **G** x **N** x $1.065^{(I-20)}$

Note 5, **V** = **S** x $1.065^{(I-20)}$

Note 6, **AC** = **E** x **G** x **Z** x $1.065^{(I-20)}$

EXPLICIT MARGINS:

MARGIN OF SAFETY (MOS) (%) = [MOG + MOU] =	**20%**

FILE: R:\PROJECTS\3110-051\DES ALLEMANDS PDF\TMDL LOAD CALC FOR DES_ALL.XLS

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

Modeled stream or water body:	Bayou des Allemands

Shaded cells are input values for calculations.

Values to be used in the projection models.

	Calibration Model Values												Man-made Model equivalents				Man-made Model loads				Background Model loads			
Reach Number and Description	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Total Calb. Benthic Load (TCBL)	Reach Length	Back-ground Benthic Load	Back-ground percentage reduction	Back-ground Benthic Load adjusted for % reduction	Proj. Model Avg. Reach Width	Proj. Temp.	Percentage Reduction of man-made sources	TCBL adjusted for % reduction (Reduced TCBL)	Manmade portion of TCBL	Non-Point UCBOD	Non-Point UNBOD	SOD @ 20°C	Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	SOD load @ Proj. temp.	Man-made Total Projection Benthic Load	Non-Point UCBOD INPUTS	Non-Point UNBOD INPUTS	SOD load @ Proj. temp.	Man-made Total Projection Benthic Load
	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	Kilo-meters	gm O_2 / [(m^2)(day)]	%	gm O_2 / [(m^2)(day)]	Meters	(degrees Celcius)	%	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^2)(day)]	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)	(kg/day)
	A, (note 1)	**B,** (note 1)	**C,** (note 1)	**D,** (note 1)	**E,** (note 1)	**F1**	**F2**	**F = F1*(1-F2)**	**G**	**I**	**H**	**J,** (note 2)	**W = K - F**	**X = (W)(A / D)**	**Y = (W)(B / D)**	**Z = (W)(C / D)**	**AA = (E)(G)(X)**	**AB = (E)(G)(Y)**	**AC,** (note 6)	**AA + AB + AC**	**AD = O AA**	**AE = P AB**	**AF = Q AC**	**AD + AE + AF**
Reach 1: Bayou des Allemands	0.619	0.309	3.25	4.178	3.00	2.00	0%	2.00	404.00	21.68	0.0%	4.18	2.72	0.403	0.202	2.12	489	244	2853	3586.46	359	180	2096	2634.42
Reach 2: Bayou des Allemands	1.279	0.640	3.00	4.919	3.20	2.00	0%	2.00	342.00	21.68	0.0%	4.92	3.65	0.949	0.474	2.23	1038	519	2707	4264.77	569	285	1484	2337.78
Reach 3: Bayou des Allemands	5.994	2.997	0.20	9.191	1.60	2.00	0%	2.00	440.00	21.68	0.0%	9.19	8.99	5.862	2.931	0.20	4127	2064	153	6343.87	918	459	34	1411.42
Reach 4: Bayou des Allemands	4.045	2.022	0.20	6.267	1.00	2.00	0%	2.00	267.00	21.68	0.0%	6.27	5.33	3.443	1.721	0.17	919	460	51	1429.32	345	172	19	535.90
Reach 5: Bayou des Allemands	1.604	0.011	0.20	1.815	1.40	2.00	0%	2.00	334.00	21.68	0.0%	1.81	0.00	0.000	0.000	0.00	0	0	0	0.00	750	5	104	858.96
Reach 6: Bayou des Allemands	0.838	0.010	0.20	1.048	1.50	2.00	0%	2.00	398.00	21.68	0.0%	1.05	0.00	0.000	0.000	0.00	0	0	0	0.00	500	6	133	638.72
Reach 7: Bayou des Allemands	0.010	0.010	0.50	0.520	1.70	2.00	0%	2.00	231.00	21.68	0.0%	0.52	0.00	0.000	0.000	0.00	0	0	0	0.00	4	4	218	226.26
Reach 8: Bayou des Allemands	0.010	0.010	1.50	1.521	1.60	2.00	0%	2.00	180.00	21.68	0.0%	1.52	0.00	0.000	0.000	0.00	0	0	0	0.00	3	3	480	486.21
Reach 9: Bayou des Allemands	0.008	0.008	1.50	1.517	0.90	2.00	0%	2.00	264.00	21.68	0.0%	1.52	0.00	0.000	0.000	0.00	0	0	0	0.00	2	2	396	400.17
Reach 10: Bayou des Allemands	0.010	0.500	0.20	0.710	1.40	2.00	0%	2.00	1058.00	21.68	0.0%	0.71	0.00	0.000	0.000	0.00	0	0	0	0.00	15	741	329	1085.30
Reach 11: Bayou des Allemands	1.000	0.500	0.20	1.701	0.90	2.00	0%	2.00	1224.00	21.68	0.0%	1.70	0.00	0.000	0.000	0.00	0	0	0	0.00	1102	551	245	1897.91
Reach 12: Bayou des Allemands	1.100	0.500	0.20	1.800	0.80	2.00	0%	2.00	1010.00	21.68	0.0%	1.80	0.00	0.000	0.000	0.00	0	0	0	0.00	889	404	180	1472.63
Reach 13: Bayou des Allemands	1.200	0.500	0.20	1.900	1.60	2.00	0%	2.00	500.00	21.68	0.0%	1.90	0.00	0.000	0.000	0.00	0	0	0	0.00	960	400	178	1537.86
Reach 14: Bayou des Allemands	1.299	0.501	0.20	2.000	1.20	2.00	0%	2.00	213.00	21.68	0.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	332	128	57	516.82
Sub-Total												39.09					6574	3287	5764	**15624**	6748	3340	5953	**16040**

Notes: Note 1, Data was calculated in and brought from the Calibration worksheet dataset.

Note 2, **J** = [(1 - **H**) x (**D** - **F**) + **F**]

Note 3, **K** = [(**J** - **F**) / (1 - MOS) + **F**]

Note 4, **Q** = **E** x **G** x **N** x $1.065^{(I-20)}$

Note 5, **V** = **S** x $1.065^{(I-20)}$

Note 6, **AC** = **E** x **G** x **Z** x $1.065^{(I-20)}$

EXPLICIT MARGINS:

MARGIN OF SAFETY (MOS) (%) = [MOG + MOU] =	**20%**

FILE: R:\PROJECTS\3110-051\DES ALLEMANDS PDF\TMDL LOAD CALC FOR DES_ALL.XLS

Winter TMDL Calculations for Point Source loads:

Bayou des Allemands

Input data into the shaded cells.

Point Source Loading Calculations

Pt. Source / Facility Description and Reach #	Receiving Stream	Included in the Projection Model (Yes/No)	Anticipated/ design flow (cms)	Flow with MOS (cms)	Proposed Permit Limits			UCBOD				UNBOD				Sub-total of Point Source Loads		
					$CBOD_5$ (mg/l)	NH_3N (mg/l)	MOS (%)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	Ultimate Conc. (mg/l) (2)	Loads (kg/day) (1)	WLA (kg/day)	Reserve/ MOS Load (kg/day)	**Loads (kg/day)**	**WLA (kg/day)**	**Reserve/ MOS (kg/day)**
			A	**A1 = A/(1-D)**	**B**	**C**	**D**	**E = 2.3 x B**	**F = (86.4)(A1)(E)**	**G = (1-D) x F**	**H = (D)(F)**	**I**	**J = (86.4)(A1)(I)**	**K = (1-D) x J**	**L = (D)(J)**	**F + J**	**G + K**	**H + L**
PHAT DADDY'S	"GODCHAUX CANAL, VIA LOCAL DRAINAGE"	No	0.000438	0.0005475	15.0		20%	34.5	1.63	1.31	0.33	34.5	1.63	1.31	0.33	**3.26**	**2.61**	**0.65**
RACELAND RAW SUGARS CORPORATION	GODCHAUX CANAL	No	0.00438	0.005475	5.0		20%	11.5	5.44	4.35	1.09	11.5	5.44	4.35	1.09	**10.88**	**8.70**	**2.18**
GIBBENS & LEFORT INC	GODCHAUX CANAL	No	0.0003285	0.000410625	15.0		20%	34.5	1.22	0.98	0.24	34.5	1.22	0.98	0.24	**2.45**	**1.96**	**0.49**
JUDY'S TRAILER PARK	UNNAMED CANAL-BAYOU DES ALLEMANDS	No	0.00007884	0.00009855	15.0		20%	34.5	0.29	0.24	0.06	34.5	0.29	0.24	0.06	**0.59**	**0.47**	**0.12**
SOMME'S LUCKY 7 TRUCK STOP	LAKE DES ALLEMANDS	No	0.000438	0.0005475	15.0		20%	34.5	1.63	1.31	0.33	34.5	1.63	1.31	0.33	**3.26**	**2.61**	**0.65**
SUB-TOTAL Loads									**10.22**	**8.18**	**2.04**		**10.22**	**8.18**	**2.04**	**20.44**	**16.35**	**4.09**

(1) - Load(kg/day) = 86.4 x Ultimate Conc.(mg/l) x Modeled Flow(cms)

(2) - [UCBOD conc. = CBOD5(mg/l) x 2.3] and [UNBOD conc. = NH3N(mg/l) x 4.3]

The flows in the Point source table have been converted from cfs to cms. ALso CBODu was set rqual to half of the BOD times 2.3.

FILE: R:\PROJECTS\3110-051\DES ALLEMANDS PDF\TMDL LOAD CALC FOR DES_ALL.XLS

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

Bayou des Allemands

Shaded cells are input values for calculations.
Values to be used in the projection models.

Headwater / Tributary load determinations

Headwater / Tributary Description and Reach #	Seasonal Critical flow (cms)	UCBOD (mg/l)	UNBOD (mg/l)	UCBOD (kg/day)	UNBOD (kg/day)	Background UCBOD conc. (mg/l)	Background UNBOD conc. (mg/l)	Background % Reduction	Background UCBOD Load (kg/day)	Background UNBOD Load (kg/day)	Percent reduction of Man-Made loads	UCBOD load adjusted for % Reduction (kg/day)	UNBOD load adjusted for % Reduction (kg/day)	Reduced UCBOD load adjusted for MOS (kg/day)	Reduced UNBOD load adjusted for MOS (kg/day)	Projection UCBOD input conc. (mg/l)	Projection UNBOD input conc. (mg/l)	**Total MOS (kg/day)**	**Total LA (kg/day)**
	A	**B**	**C**	**D = (86.4)(A)(B)**	**E = (86.4)(A)(C)**	**F**	**G**	**H1**	**H = (1-H1) (86.4)(A)(F)**	**I = (1-H1) (86.4)(A)(G)**	**J**	**K = (D-H)(1-J) + H**	**L = (D-I)(1-J) + I**	**M = (K - H) / (1 - MOS) + H**	**N = (L - I) / (1 - MOS) + I**	**(M)/[(A)(86.4)]**	**(N)/[(A)(86.4)]**	**(M+N) - (K+L)**	**K + L**
Lake Salvador	26.80	4.6	0.9	10558.77	1991.35	4.56	0.86	0%	10558.77	1991.35	0%	10558.77	1991.35	10558.77	1991.35	4.56	0.86	**0.00**	**12,550.12**
B. Gauche DS																			
B. Gauche US	6.16	6.5	1.3	3461.70	702.99	6.50	1.32	0%	3461.70	702.99	0%	3461.70	702.99	3461.70	702.99	6.50	1.32	**0.00**	**4,164.69**
SUB-TOTAL TMDL LOADING				**14,020**	**2,694**				**14,020**	**2,694**		**14,020**	**2,694**	**14,020**	**2,694**			**0**	**16,715**

FILE: R:\PROJECTS\3110-051\LA-QUAL\DES_ALL\REVISIONS\TMDL LOAD CALC FOR DES_ALL.XLS

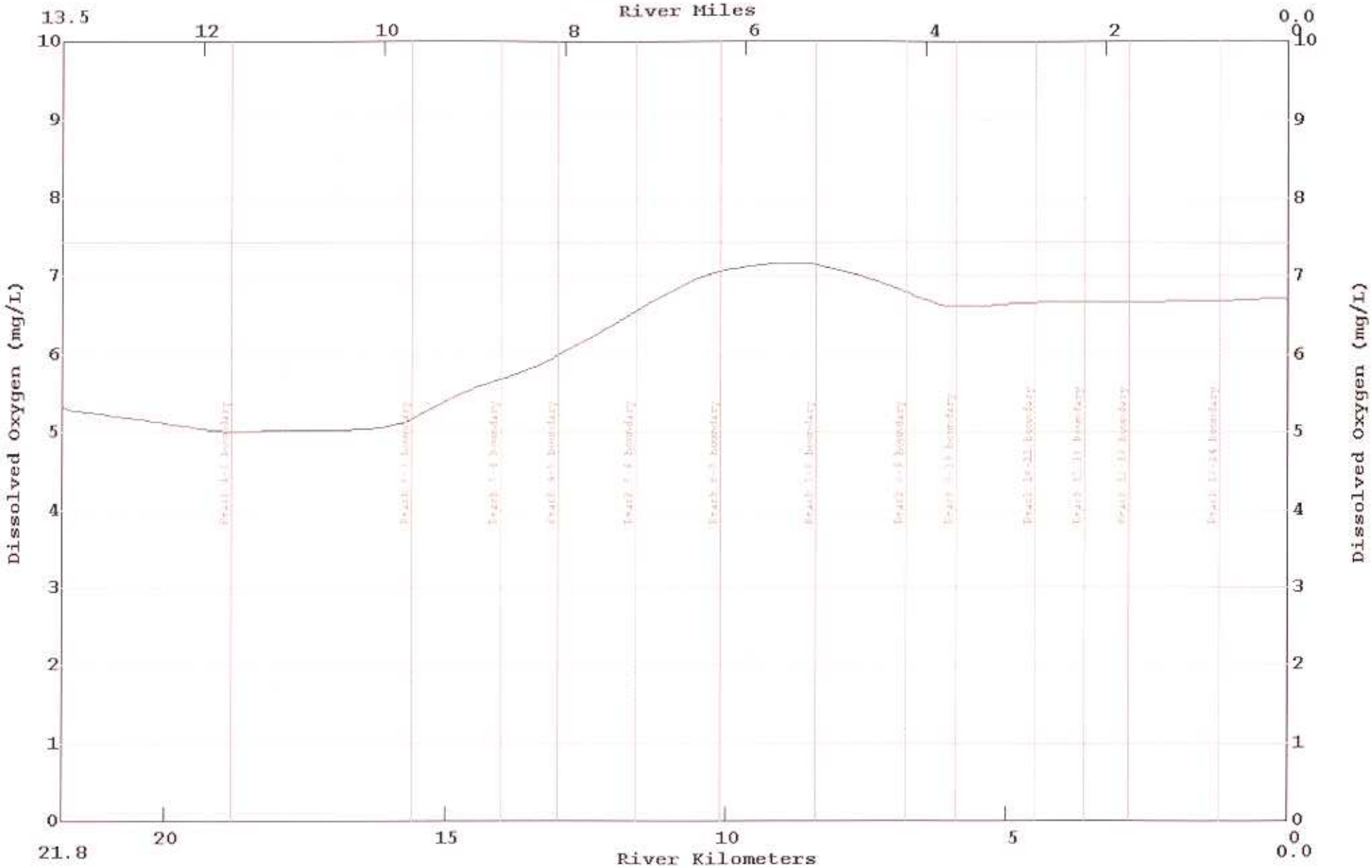
EXPLICIT MARGINS:

MARGIN OF SAFETY (MOS) (%) =	**20%**

APPENDIX R

Model Output for Projection Runs

LA-QUAL Version 6.02 Run at 17:27 on 01/28/2004 File R:\projects\3110-051\la-qual\des_all\proj\summer\bda_sum.txt
SUMMER DO projection meeting standards min= 5.01 max= 7.17
BAYOU DES ALLEMANDS REACHES 1-14



```
LA-QUAL Version 6.02
Louisiana Department of Environmental Quality

Input file is R:\projects\3110-051\la-qual\des_all\revisions\proj\summer\bda_sum.txt
Output produced at 13:54 on 03/30/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Des Allemands (020301)
TITLE02         SUMMER DO projection meeting standards
CNTROL03   NO   SEQU                        <Warning: legacy control - line ignored>
CNTROL04  YES   METR
CNTROL05  YES   OXYG                        <Warning: legacy control - line ignored>
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMP
MODOPT02   NO   SALI
MODOPT03  YES   CONSERVATIVE MATERIAL  I = Chloride                  IN mg/L      CL
MODOPT04  YES   CONSERVATIVE MATERIAL II = Conductivity              IN umhos     COND
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BIOCHEMICAL OXYGEN DEMAND
MODOPT07   NO   NITR
MODOPT08   NO   PHOS
MODOPT09   NO   CHLO
MODOPT10   NO   MACR
MODOPT11   NO   COLI
MODOPT12  YES   NONCONSERVATIVE MATERIAL = Nitrogenous BOD           IN mg/L      NBOD
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

PROGRAM         HYDRAULIC CALCULATION METHOD       =         2.00000 (widths and depths)
PROGRAM         NCM OXYGEN UPTAKE RATE             =         1.00000 mg O/mg NCM
PROGRAM         KL MINIMUM                         =         0.93000 meters/day
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05
```

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

CARD TYPE DESCRIPTION OF CONSTANT VALUE

ENDATA06

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

CARD TYPE DESCRIPTION OF CONSTANT VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$

CARD TYPE	REACH	ID	NAME	BEGIN REACH km		END REACH km	ELEM LENGTH km	REACH LENGTH km	ELEMS PER RCH	BEGIN ELEM NUM	END ELEM NUM
REACH ID	1	DA	Bayou Des Allemands	21.80	TO	18.80	0.1000	3.00	30	1	30
REACH ID	2	DA	Bayou Des Allemands	18.80	TO	15.60	0.1000	3.20	32	31	62
REACH ID	3	DA	Bayou Des Allemands	15.60	TO	14.00	0.1000	1.60	16	63	78
REACH ID	4	DA	Bayou Des Allemands	14.00	TO	13.00	0.1000	1.00	10	79	88
REACH ID	5	DA	Bayou Des Allemands	13.00	TO	11.60	0.1000	1.40	14	89	102
REACH ID	6	DA	Bayou Des Allemands	11.60	TO	10.10	0.1000	1.50	15	103	117
REACH ID	7	DA	Bayou Des Allemands	10.10	TO	8.40	0.1000	1.70	17	118	134
REACH ID	8	DA	Bayou Des Allemands	8.40	TO	6.80	0.1000	1.60	16	135	150
REACH ID	9	DA	Bayou Des Allemands	6.80	TO	5.90	0.1000	0.90	9	151	159
REACH ID	10	DA	Bayou Des Allemands	5.90	TO	4.50	0.1000	1.40	14	160	173
REACH ID	11	DA	Bayou Des Allemands	4.50	TO	3.60	0.1000	0.90	9	174	182
REACH ID	12	DA	Bayou Des Allemands	3.60	TO	2.80	0.1000	0.80	8	183	190
REACH ID	13	DA	Bayou Des Allemands	2.80	TO	1.20	0.1000	1.60	16	191	206
REACH ID	14	DA	Bayou Des Allemands	1.20	TO	0.00	0.1000	1.20	12	207	218

ENDATA08

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

CARD TYPE	REACH	ID	WIDTH "A"	WIDTH "B"	WIDTH "C"	DEPTH "D"	DEPTH "E"	DEPTH "F"	SLOPE	MANNINGS "N"
HYDR-1	1	DA	0.000	0.000	404.000	0.000	0.000	2.350	0.00000	0.000
HYDR-1	2	DA	0.000	0.000	342.000	0.000	0.000	2.350	0.00000	0.000
HYDR-1	3	DA	0.000	0.000	440.000	0.000	0.000	2.410	0.00000	0.000
HYDR-1	4	DA	0.000	0.000	267.000	0.000	0.000	2.470	0.00000	0.000
HYDR-1	5	DA	0.000	0.000	334.000	0.000	0.000	2.490	0.00000	0.000
HYDR-1	6	DA	0.000	0.000	398.000	0.000	0.000	2.500	0.00000	0.000
HYDR-1	7	DA	0.000	0.000	231.000	0.000	0.000	2.500	0.00000	0.000
HYDR-1	8	DA	0.000	0.000	180.000	0.000	0.000	2.340	0.00000	0.000
HYDR-1	9	DA	0.000	0.000	264.000	0.000	0.000	2.170	0.00000	0.000
HYDR-1	10	DA	0.000	0.000	1058.000	0.000	0.000	1.970	0.00000	0.000
HYDR-1	11	DA	0.000	0.000	1224.000	0.000	0.000	1.760	0.00000	0.000
HYDR-1	12	DA	0.000	0.000	1010.000	0.000	0.000	1.810	0.00000	0.000
HYDR-1	13	DA	0.000	0.000	500.000	0.000	0.000	1.850	0.00000	0.000
HYDR-1	14	DA	0.000	0.000	213.000	0.000	0.000	1.850	0.00000	0.000

ENDATA09

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

CARD TYPE	REACH	ID	TIDAL RANGE	DISPERSION "A"	DISPERSION "B"	DISPERSION "C"	DISPERSION "D"
HYDR	1	DA	0.00	10.000	0.000	0.000	0.000
HYDR	2	DA	0.00	10.000	0.000	0.000	0.000
HYDR	3	DA	0.00	10.000	0.000	0.000	0.000
HYDR	4	DA	0.00	10.000	0.000	0.000	0.000
HYDR	5	DA	0.00	10.000	0.000	0.000	0.000
HYDR	6	DA	0.00	10.000	0.000	0.000	0.000
HYDR	7	DA	0.00	10.000	0.000	0.000	0.000
HYDR	8	DA	0.00	10.000	0.000	0.000	0.000
HYDR	9	DA	0.00	10.000	0.000	0.000	0.000
HYDR	10	DA	0.00	10.000	0.000	0.000	0.000
HYDR	11	DA	0.00	10.000	0.000	0.000	0.000
HYDR	12	DA	0.00	10.000	0.000	0.000	0.000
HYDR	13	DA	0.00	10.000	0.000	0.000	0.000
HYDR	14	DA	0.00	10.000	0.000	0.000	0.000

ENDATA10

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

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	DA	30.80	0.66	6.17	0.00	0.00	0.00	8.70	0.00
INITIAL	2	DA	30.80	0.66	6.17	0.00	0.00	0.00	4.60	0.00
INITIAL	3	DA	30.80	0.67	6.65	0.00	0.00	0.00	4.60	0.00
INITIAL	4	DA	30.80	0.67	6.65	0.00	0.00	0.00	4.60	0.00
INITIAL	5	DA	30.80	0.68	7.13	0.00	0.00	0.00	10.50	0.00
INITIAL	6	DA	30.80	0.68	7.13	0.00	0.00	0.00	16.40	0.00
INITIAL	7	DA	30.80	0.68	7.13	0.00	0.00	0.00	16.40	0.00
INITIAL	8	DA	30.80	0.69	6.96	0.00	0.00	0.00	10.45	0.00
INITIAL	9	DA	30.80	0.70	6.78	0.00	0.00	0.00	4.50	0.00
INITIAL	10	DA	30.80	0.70	6.78	0.00	0.00	0.00	4.50	0.00
INITIAL	11	DA	30.80	0.67	6.76	0.00	0.00	0.00	3.75	0.00
INITIAL	12	DA	30.80	0.67	6.76	0.00	0.00	0.00	3.75	0.00
INITIAL	13	DA	30.80	0.65	6.74	0.00	0.00	0.00	3.00	0.00
INITIAL	14	DA	30.80	0.65	6.74	0.00	0.00	0.00	3.00	0.00

ENDATA11

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

CARD TYPE	RCH NUM	RCH ID	K2 OPT	K2 "A"	K2 "B"	K2 "C"	BKGRND SOD g/m²/d	BOD DECAY per day	BOD SETT m/d	BOD CONV TO SOD	ANAER BOD DECAY per day	BOD2 DECAY per day	BOD2 SETT m/d	BOD2 CONV TO SOD	ANAER BOD2 DECAY per day
COEF-1	1	DA	15 LOUISIANA	0.000	0.000	0.000	1.850	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	DA	15 LOUISIANA	0.000	0.000	0.000	1.530	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	DA	15 LOUISIANA	0.000	0.000	0.000	0.070	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	DA	15 LOUISIANA	0.000	0.000	0.000	0.090	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	DA	15 LOUISIANA	0.000	0.000	0.000	0.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	DA	15 LOUISIANA	0.000	0.000	0.000	1.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	DA	15 LOUISIANA	0.000	0.000	0.000	1.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	11	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ENDATA12

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

CARD TYPE	REACH	ID	ORG-N DECA	ORG-N SETT	ORGN CONV TO NH3 SRCE	NH3 DECA	NH3 SRCE	PHOS SRCE	DENIT RATE

ENDATA13

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

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

ENDATA14

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

CARD TYPE	REACH	ID	COLIFORM DIE-OFF	NCM DECAY	NCM SETT	NCM CONV TO SOD
COEF-4	1	DA	0.000	0.090	0.000	0.000
COEF-4	2	DA	0.000	0.090	0.000	0.000
COEF-4	3	DA	0.000	0.090	0.000	0.000
COEF-4	4	DA	0.000	0.090	0.000	0.000
COEF-4	5	DA	0.000	0.090	0.000	0.000
COEF-4	6	DA	0.000	0.090	0.000	0.000
COEF-4	7	DA	0.000	0.090	0.000	0.000
COEF-4	8	DA	0.000	0.090	0.000	0.000
COEF-4	9	DA	0.000	0.090	0.000	0.000
COEF-4	10	DA	0.000	0.090	0.000	0.000
COEF-4	11	DA	0.000	0.090	0.000	0.000
COEF-4	12	DA	0.000	0.090	0.000	0.000
COEF-4	13	DA	0.000	0.090	0.000	0.000
COEF-4	14	DA	0.000	0.090	0.000	0.000

ENDATA15

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

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

ENDATA16

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

CARD TYPE	REACH	ID	DO	BOD	ORG-N	NH3-N	NO3-N	BOD#2

ENDATA17

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

CARD TYPE	REACH	ID	PHOS	CHL A	COLI	NCM

ENDATA18

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

CARD TYPE	REACH	ID	BOD#1	ORG-N	COLI	NCM	DO	BOD#2
NONPOINT	1	DA	427.00	0.00	0.00	214.00	0.00	0.00
NONPOINT	2	DA	715.00	0.00	0.00	357.00	0.00	0.00
NONPOINT	3	DA	1496.00	0.00	0.00	748.00	0.00	0.00
NONPOINT	4	DA	473.00	0.00	0.00	237.00	0.00	0.00
NONPOINT	5	DA	750.00	0.00	0.00	5.00	0.00	0.00
NONPOINT	6	DA	500.00	0.00	0.00	6.00	0.00	0.00
NONPOINT	7	DA	4.00	0.00	0.00	4.00	0.00	0.00
NONPOINT	8	DA	3.00	0.00	0.00	3.00	0.00	0.00
NONPOINT	9	DA	2.00	0.00	0.00	2.00	0.00	0.00
NONPOINT	10	DA	15.00	0.00	0.00	741.00	0.00	0.00
NONPOINT	11	DA	1102.00	0.00	0.00	551.00	0.00	0.00
NONPOINT	12	DA	889.00	0.00	0.00	404.00	0.00	0.00
NONPOINT	13	DA	960.00	0.00	0.00	400.00	0.00	0.00
NONPOINT	14	DA	332.00	0.00	0.00	128.00	0.00	0.00

ENDATA19

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

CARD TYPE	ELEMENT	NAME	UNIT	FLOW m^3/s	FLOW cfs	TEMP deg C	SALIN ppt	CM-I mg/L	CM-II umhos
HDWTR-1	1		0	26.80000	946.328	30.80	0.00	369.000	1405.000

ENDATA20

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

CARD TYPE	ELEMENT	NAME	DO mg/L	BOD#1 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	BOD#2 mg/L
HDWTR-1	1		5.32	4.56	0.00	0.00	0.00	0.00

ENDATA21

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

CARD TYPE	ELEMENT	NAME	PHOS mg/L	CHL A mg/L	COLI mg/L	NCM mg/L
HDWTR-1	1		0.00	0.00	0.00	0.86

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME

ENDATA23

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

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

WSTLD-1      112      10.70  B. Gauche DS          -6.16400 -217.65536 -140.695    0.00     0.00     0.000     0.000
WSTLD-1      163       5.60  B. Gauche US           6.16400  217.65536  140.695   27.88     0.71   346.000  1341.000
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                                          % BOD                            %
CARD TYPE     ELEMENT   NAME                          DO       BOD      RMVL     ORG-N     NH3-N    NITRIF     NO3-N     BOD#2
                                                     mg/L      mg/L                mg/L      mg/L                mg/L      mg/L

WSTLD-1         112     B. Gauche DS                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WSTLD-1         163     B. Gauche US                6.25      6.50      0.00      0.00      0.00      0.00      0.00      0.00
ENDATA25

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

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

WSTLD-1         112     B. Gauche DS                0.00      0.00      0.00      0.00
WSTLD-1         163     B. Gauche US                0.00      0.00      0.00      1.32
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     30.800     deg C
LOWER BC     SALINITY                          =      0.640     ppt
LOWER BC     CONSERVATIVE MATERIAL I           =    311.000     mg/L
LOWER BC     CONSERVATIVE MATERIAL II          =   1210.500     umhos
LOWER BC     DISSOLVED OXYGEN                  =      6.710     mg/L
LOWER BC     BIOCHEMICAL OXYGEN DEMAND         =      5.590     mg/L
LOWER BC     CHLOROPHYLL A                     =      3.000     µg/L
LOWER BC     NONCONSERVATIVE MATERIAL          =      1.420     mg/L
ENDATA27

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

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

ENDATA28

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

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

ENDATA29

$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$
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NUMBER OF PLOTS =  3
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  2  3  4  5  6  7
NUMBER OF REACHES IN PLOT 2 =   7
PLOT RCH  8  9 10 11 12 13 14
ENDATA30

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


OVERLAY 1 BDA_sens.OVL                    :BAYOU DES ALLEMANDS REACHES 1-14
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   1 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
     .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12
     .....GRAPHICS DATA FOR PLOT 3 WRITTEN TO UNIT 13


CONDENSED CAPSULE SUMMARY FOR
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DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORGN mg/L	NH3 µg/L	CHLA 1/da	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
HDWTR	26.80000	30.80	0.00	5.32	4.56	0.00	0.00	0.00	0.00							
21.70	26.80000	30.80	0.66	5.28	4.52	0.00	0.00	0.00	8.56	0.55	0.08	0.00	0.00	0.00	0.00	3.65
21.60	26.80000	30.80	0.66	5.27	4.51	0.00	0.00	0.00	8.43	0.55	0.08	0.00	0.00	0.00	0.00	3.65
21.50	26.80000	30.80	0.66	5.26	4.50	0.00	0.00	0.00	8.29	0.55	0.08	0.00	0.00	0.00	0.00	3.65
21.40	26.80000	30.80	0.66	5.25	4.49	0.00	0.00	0.00	8.15	0.55	0.08	0.00	0.00	0.00	0.00	3.65
21.30	26.80000	30.80	0.66	5.25	4.48	0.00	0.00	0.00	8.02	0.55	0.08	0.00	0.00	0.00	0.00	3.65
21.20	26.80000	30.80	0.66	5.24	4.47	0.00	0.00	0.00	7.88	0.55	0.08	0.00	0.00	0.00	0.00	3.65
21.10	26.80000	30.80	0.66	5.23	4.47	0.00	0.00	0.00	7.74	0.55	0.08	0.00	0.00	0.00	0.00	3.65
21.00	26.80000	30.80	0.66	5.22	4.46	0.00	0.00	0.00	7.61	0.55	0.08	0.00	0.00	0.00	0.00	3.65
20.90	26.80000	30.80	0.66	5.21	4.45	0.00	0.00	0.00	7.47	0.55	0.08	0.00	0.00	0.00	0.00	3.65
20.80	26.80000	30.80	0.66	5.20	4.44	0.00	0.00	0.00	7.33	0.55	0.08	0.00	0.00	0.00	0.00	3.65
20.70	26.80000	30.80	0.66	5.19	4.43	0.00	0.00	0.00	7.20	0.55	0.08	0.00	0.00	0.00	0.00	3.65
20.60	26.80000	30.80	0.66	5.18	4.42	0.00	0.00	0.00	7.06	0.55	0.08	0.00	0.00	0.00	0.00	3.65
20.50	26.80000	30.80	0.66	5.17	4.41	0.00	0.00	0.00	6.92	0.55	0.08	0.00	0.00	0.00	0.00	3.65
20.40	26.80000	30.80	0.66	5.15	4.41	0.00	0.00	0.00	6.79	0.55	0.08	0.00	0.00	0.00	0.00	3.65
20.30	26.80000	30.80	0.66	5.14	4.40	0.00	0.00	0.00	6.65	0.55	0.08	0.00	0.00	0.00	0.00	3.65
20.20	26.80000	30.80	0.66	5.13	4.39	0.00	0.00	0.00	6.51	0.55	0.08	0.00	0.00	0.00	0.00	3.65
20.10	26.80000	30.80	0.66	5.12	4.38	0.00	0.00	0.00	6.38	0.55	0.08	0.00	0.00	0.00	0.00	3.65
20.00	26.80000	30.80	0.66	5.11	4.37	0.00	0.00	0.00	6.24	0.55	0.08	0.00	0.00	0.00	0.00	3.65
19.90	26.80000	30.80	0.66	5.10	4.36	0.00	0.00	0.00	6.10	0.55	0.08	0.00	0.00	0.00	0.00	3.65
19.80	26.80000	30.80	0.66	5.09	4.36	0.00	0.00	0.00	5.97	0.55	0.08	0.00	0.00	0.00	0.00	3.65
19.70	26.80000	30.80	0.66	5.08	4.35	0.00	0.00	0.00	5.83	0.55	0.08	0.00	0.00	0.00	0.00	3.65
19.60	26.80000	30.80	0.66	5.07	4.34	0.00	0.00	0.00	5.69	0.55	0.08	0.00	0.00	0.00	0.00	3.65

19.50	26.80000	30.80	0.66	5.06	4.33	0.00	0.00	0.00	5.56	0.55	0.08	0.00	0.00	0.00	0.00	3.65
19.40	26.80000	30.80	0.66	5.05	4.33	0.00	0.00	0.00	5.42	0.55	0.08	0.00	0.00	0.00	0.00	3.65
19.30	26.80000	30.80	0.66	5.04	4.32	0.00	0.00	0.00	5.28	0.55	0.08	0.00	0.00	0.00	0.00	3.65
19.20	26.80000	30.80	0.66	5.03	4.31	0.00	0.00	0.00	5.15	0.55	0.08	0.00	0.00	0.00	0.00	3.65
19.10	26.80000	30.80	0.66	5.02	4.31	0.00	0.00	0.00	5.01	0.55	0.08	0.00	0.00	0.00	0.00	3.65
19.00	26.80000	30.80	0.66	5.01	4.30	0.00	0.00	0.00	4.87	0.55	0.08	0.00	0.00	0.00	0.00	3.65
18.90	26.80000	30.80	0.66	5.01	4.30	0.00	0.00	0.00	4.74	0.55	0.08	0.00	0.00	0.00	0.00	3.65
18.80	26.80000	30.80	0.66	5.01	4.29	0.00	0.00	0.00	4.60	0.55	0.08	0.00	0.00	0.00	0.00	3.65
18.70	26.80000	30.80	0.66	5.01	4.29	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
18.60	26.80000	30.80	0.66	5.01	4.29	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
18.50	26.80000	30.80	0.66	5.01	4.29	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
18.40	26.80000	30.80	0.66	5.01	4.28	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
18.30	26.80000	30.80	0.66	5.01	4.28	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
18.20	26.80000	30.80	0.66	5.01	4.28	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
18.10	26.80000	30.80	0.66	5.01	4.27	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
18.00	26.80000	30.80	0.66	5.01	4.27	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
17.90	26.80000	30.80	0.66	5.02	4.27	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
17.80	26.80000	30.80	0.66	5.02	4.27	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
17.70	26.80000	30.80	0.66	5.02	4.27	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
17.60	26.80000	30.80	0.66	5.02	4.26	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
17.50	26.80000	30.80	0.66	5.02	4.26	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
17.40	26.80000	30.80	0.66	5.02	4.26	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
17.30	26.80000	30.80	0.66	5.02	4.26	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
17.20	26.80000	30.80	0.67	5.02	4.25	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
17.10	26.80000	30.80	0.67	5.02	4.25	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
17.00	26.80000	30.80	0.67	5.02	4.25	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
16.90	26.80000	30.80	0.67	5.03	4.25	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
16.80	26.80000	30.80	0.67	5.03	4.25	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
16.70	26.80000	30.80	0.67	5.03	4.24	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
16.60	26.80000	30.80	0.67	5.03	4.24	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
16.50	26.80000	30.80	0.67	5.04	4.24	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
16.40	26.80000	30.80	0.67	5.04	4.24	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
16.30	26.80000	30.80	0.67	5.04	4.24	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
16.20	26.80000	30.80	0.67	5.05	4.25	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
16.10	26.80000	30.80	0.67	5.06	4.25	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
16.00	26.80000	30.80	0.67	5.07	4.25	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
15.90	26.80000	30.80	0.67	5.09	4.26	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
15.80	26.80000	30.80	0.67	5.11	4.27	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
15.70	26.80000	30.80	0.67	5.13	4.29	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
15.60	26.80000	30.80	0.67	5.17	4.31	0.00	0.00	0.00	4.60	0.59	0.08	0.00	0.00	0.00	0.00	3.02
15.50	26.80000	30.80	0.67	5.22	4.34	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
15.40	26.80000	30.80	0.67	5.25	4.36	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
15.30	26.80000	30.80	0.67	5.29	4.38	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
15.20	26.80000	30.80	0.67	5.33	4.40	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
15.10	26.80000	30.80	0.67	5.36	4.43	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
15.00	26.80000	30.80	0.67	5.40	4.45	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
14.90	26.80000	30.80	0.67	5.43	4.47	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
14.80	26.80000	30.80	0.67	5.46	4.49	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
14.70	26.80000	30.80	0.67	5.49	4.51	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
14.60	26.80000	30.80	0.67	5.52	4.53	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
14.50	26.80000	30.80	0.67	5.55	4.55	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
14.40	26.80000	30.80	0.67	5.58	4.57	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
14.30	26.80000	30.80	0.67	5.61	4.58	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
14.20	26.80000	30.80	0.67	5.63	4.60	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
14.10	26.80000	30.80	0.67	5.65	4.61	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14
14.00	26.80000	30.80	0.67	5.67	4.62	0.00	0.00	0.00	4.60	0.52	0.08	0.00	0.00	0.00	0.00	0.14

13.90	26.80000	30.80	0.67	5.70	4.63	0.00	0.00	0.00	5.19	0.61	0.08	0.00	0.00	0.00	0.00	0.18
13.80	26.80000	30.80	0.67	5.72	4.64	0.00	0.00	0.00	5.78	0.61	0.08	0.00	0.00	0.00	0.00	0.18
13.70	26.80000	30.80	0.67	5.75	4.65	0.00	0.00	0.00	6.37	0.61	0.08	0.00	0.00	0.00	0.00	0.18
13.60	26.80000	30.80	0.67	5.78	4.66	0.00	0.00	0.00	6.96	0.61	0.08	0.00	0.00	0.00	0.00	0.18
13.50	26.80000	30.80	0.68	5.81	4.67	0.00	0.00	0.00	7.55	0.61	0.08	0.00	0.00	0.00	0.00	0.18
13.40	26.80000	30.80	0.68	5.84	4.68	0.00	0.00	0.00	8.14	0.61	0.08	0.00	0.00	0.00	0.00	0.18
13.30	26.80000	30.80	0.68	5.88	4.69	0.00	0.00	0.00	8.73	0.61	0.08	0.00	0.00	0.00	0.00	0.18
13.20	26.80000	30.80	0.68	5.91	4.70	0.00	0.00	0.00	9.32	0.61	0.08	0.00	0.00	0.00	0.00	0.18
13.10	26.80000	30.80	0.68	5.95	4.71	0.00	0.00	0.00	9.91	0.61	0.08	0.00	0.00	0.00	0.00	0.18
13.00	26.80000	30.80	0.68	5.99	4.72	0.00	0.00	0.00	10.50	0.61	0.08	0.00	0.00	0.00	0.00	0.18
12.90	26.80000	30.80	0.68	6.03	4.73	0.00	0.00	0.00	10.92	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.80	26.80000	30.80	0.68	6.06	4.74	0.00	0.00	0.00	11.34	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.70	26.80000	30.80	0.68	6.10	4.74	0.00	0.00	0.00	11.76	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.60	26.80000	30.80	0.68	6.14	4.75	0.00	0.00	0.00	12.19	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.50	26.80000	30.80	0.68	6.18	4.76	0.00	0.00	0.00	12.61	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.40	26.80000	30.80	0.68	6.21	4.77	0.00	0.00	0.00	13.03	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.30	26.80000	30.80	0.68	6.25	4.78	0.00	0.00	0.00	13.45	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.20	26.80000	30.80	0.68	6.29	4.78	0.00	0.00	0.00	13.87	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.10	26.80000	30.80	0.68	6.33	4.79	0.00	0.00	0.00	14.29	0.55	0.08	0.00	0.00	0.00	0.00	0.39
12.00	26.80000	30.80	0.68	6.37	4.80	0.00	0.00	0.00	14.71	0.55	0.08	0.00	0.00	0.00	0.00	0.39
11.90	26.80000	30.80	0.68	6.42	4.80	0.00	0.00	0.00	15.14	0.55	0.08	0.00	0.00	0.00	0.00	0.39
11.80	26.80000	30.80	0.68	6.46	4.81	0.00	0.00	0.00	15.56	0.55	0.08	0.00	0.00	0.00	0.00	0.39
11.70	26.80000	30.80	0.68	6.51	4.81	0.00	0.00	0.00	15.98	0.55	0.08	0.00	0.00	0.00	0.00	0.39
11.60	26.80000	30.80	0.68	6.55	4.81	0.00	0.00	0.00	16.40	0.55	0.08	0.00	0.00	0.00	0.00	0.39
11.50	26.80000	30.80	0.68	6.60	4.80	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
11.40	26.80000	30.80	0.68	6.64	4.80	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
11.30	26.80000	30.80	0.68	6.68	4.80	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
11.20	26.80000	30.80	0.68	6.72	4.80	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
11.10	26.80000	30.80	0.68	6.76	4.79	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
11.00	26.80000	30.80	0.68	6.80	4.79	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
10.90	26.80000	30.80	0.68	6.83	4.79	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
10.80	26.80000	30.80	0.68	6.87	4.78	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
10.70	26.80000	30.80	0.68	6.90	4.78	0.00	0.00	0.00	16.40	0.51	0.08	0.00	0.00	0.00	0.00	0.39
10.60	20.63600	30.80	0.68	6.94	4.77	0.00	0.00	0.00	16.40	0.47	0.08	0.00	0.00	0.00	0.00	0.39
10.50	20.63600	30.80	0.68	6.97	4.77	0.00	0.00	0.00	16.40	0.47	0.08	0.00	0.00	0.00	0.00	0.39
10.40	20.63600	30.80	0.68	7.00	4.76	0.00	0.00	0.00	16.40	0.47	0.08	0.00	0.00	0.00	0.00	0.39
10.30	20.63600	30.80	0.68	7.02	4.76	0.00	0.00	0.00	16.40	0.47	0.08	0.00	0.00	0.00	0.00	0.39
10.20	20.63600	30.80	0.68	7.04	4.75	0.00	0.00	0.00	16.40	0.47	0.08	0.00	0.00	0.00	0.00	0.39
10.10	20.63600	30.80	0.68	7.06	4.75	0.00	0.00	0.00	16.40	0.47	0.08	0.00	0.00	0.00	0.00	0.39
10.00	20.63600	30.80	0.68	7.07	4.74	0.00	0.00	0.00	16.05	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.90	20.63600	30.80	0.68	7.09	4.72	0.00	0.00	0.00	15.70	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.80	20.63600	30.80	0.68	7.10	4.71	0.00	0.00	0.00	15.35	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.70	20.63600	30.80	0.68	7.11	4.70	0.00	0.00	0.00	15.00	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.60	20.63600	30.80	0.68	7.13	4.69	0.00	0.00	0.00	14.65	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.50	20.63600	30.80	0.68	7.14	4.67	0.00	0.00	0.00	14.30	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.40	20.63600	30.80	0.68	7.15	4.66	0.00	0.00	0.00	13.95	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.30	20.63600	30.80	0.68	7.15	4.65	0.00	0.00	0.00	13.60	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.20	20.63600	30.80	0.69	7.16	4.64	0.00	0.00	0.00	13.25	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.10	20.63600	30.80	0.69	7.17	4.63	0.00	0.00	0.00	12.90	0.57	0.08	0.00	0.00	0.00	0.00	0.99
9.00	20.63600	30.80	0.69	7.17	4.62	0.00	0.00	0.00	12.55	0.57	0.08	0.00	0.00	0.00	0.00	0.99
8.90	20.63600	30.80	0.69	7.17	4.60	0.00	0.00	0.00	12.20	0.57	0.08	0.00	0.00	0.00	0.00	0.99
8.80	20.63600	30.80	0.69	7.17	4.59	0.00	0.00	0.00	11.85	0.57	0.08	0.00	0.00	0.00	0.00	0.99
8.70	20.63600	30.80	0.69	7.17	4.58	0.00	0.00	0.00	11.50	0.57	0.08	0.00	0.00	0.00	0.00	0.99
8.60	20.63600	30.80	0.69	7.17	4.57	0.00	0.00	0.00	11.15	0.57	0.08	0.00	0.00	0.00	0.00	0.99
8.50	20.63600	30.80	0.69	7.16	4.56	0.00	0.00	0.00	10.80	0.57	0.08	0.00	0.00	0.00	0.00	0.99
8.40	20.63600	30.80	0.69	7.16	4.56	0.00	0.00	0.00	10.45	0.57	0.08	0.00	0.00	0.00	0.00	0.99

8.30	20.63600	30.80	0.69	7.14	4.55	0.00	0.00	0.00	10.08	0.71	0.08	0.00	0.00	0.00	0.00	2.96
8.20	20.63600	30.80	0.69	7.12	4.54	0.00	0.00	0.00	9.71	0.71	0.08	0.00	0.00	0.00	0.00	2.96
8.10	20.63600	30.80	0.69	7.10	4.53	0.00	0.00	0.00	9.33	0.71	0.08	0.00	0.00	0.00	0.00	2.96
8.00	20.63600	30.80	0.69	7.08	4.52	0.00	0.00	0.00	8.96	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.90	20.63600	30.80	0.69	7.06	4.51	0.00	0.00	0.00	8.59	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.80	20.63600	30.80	0.69	7.04	4.51	0.00	0.00	0.00	8.22	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.70	20.63600	30.80	0.69	7.02	4.50	0.00	0.00	0.00	7.85	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.60	20.63600	30.80	0.69	7.00	4.49	0.00	0.00	0.00	7.47	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.50	20.63600	30.80	0.70	6.98	4.48	0.00	0.00	0.00	7.10	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.40	20.63600	30.80	0.70	6.96	4.47	0.00	0.00	0.00	6.73	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.30	20.63600	30.80	0.70	6.93	4.46	0.00	0.00	0.00	6.36	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.20	20.63600	30.80	0.70	6.91	4.45	0.00	0.00	0.00	5.99	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.10	20.63600	30.80	0.70	6.88	4.44	0.00	0.00	0.00	5.62	0.71	0.08	0.00	0.00	0.00	0.00	2.96
7.00	20.63600	30.80	0.70	6.86	4.44	0.00	0.00	0.00	5.24	0.71	0.08	0.00	0.00	0.00	0.00	2.96
6.90	20.63600	30.80	0.70	6.83	4.43	0.00	0.00	0.00	4.87	0.71	0.08	0.00	0.00	0.00	0.00	2.96
6.80	20.63600	30.80	0.70	6.79	4.42	0.00	0.00	0.00	4.50	0.71	0.08	0.00	0.00	0.00	0.00	2.96
6.70	20.63600	30.80	0.70	6.76	4.41	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.60	20.63600	30.80	0.70	6.73	4.40	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.50	20.63600	30.80	0.70	6.70	4.40	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.40	20.63600	30.80	0.70	6.68	4.39	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.30	20.63600	30.80	0.70	6.65	4.40	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.20	20.63600	30.80	0.70	6.63	4.40	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.10	20.63600	30.80	0.70	6.61	4.41	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
6.00	20.63600	30.80	0.70	6.60	4.43	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
5.90	20.63600	30.80	0.70	6.59	4.46	0.00	0.00	0.00	4.50	0.66	0.08	0.00	0.00	0.00	0.00	2.96
5.80	20.63600	30.80	0.70	6.59	4.48	0.00	0.00	0.00	4.45	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.70	20.63600	30.80	0.70	6.59	4.50	0.00	0.00	0.00	4.39	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.60	20.63600	30.80	0.69	6.59	4.53	0.00	0.00	0.00	4.34	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.50	26.80000	30.80	0.69	6.58	4.56	0.00	0.00	0.00	4.29	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.40	26.80000	30.80	0.69	6.59	4.54	0.00	0.00	0.00	4.23	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.30	26.80000	30.80	0.69	6.59	4.52	0.00	0.00	0.00	4.18	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.20	26.80000	30.80	0.69	6.60	4.51	0.00	0.00	0.00	4.12	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.10	26.80000	30.80	0.68	6.60	4.50	0.00	0.00	0.00	4.07	0.58	0.08	0.00	0.00	0.00	0.00	0.39
5.00	26.80000	30.80	0.68	6.60	4.49	0.00	0.00	0.00	4.02	0.58	0.08	0.00	0.00	0.00	0.00	0.39
4.90	26.80000	30.80	0.68	6.61	4.48	0.00	0.00	0.00	3.96	0.58	0.08	0.00	0.00	0.00	0.00	0.39
4.80	26.80000	30.80	0.68	6.61	4.48	0.00	0.00	0.00	3.91	0.58	0.08	0.00	0.00	0.00	0.00	0.39
4.70	26.80000	30.80	0.67	6.61	4.48	0.00	0.00	0.00	3.86	0.58	0.08	0.00	0.00	0.00	0.00	0.39
4.60	26.80000	30.80	0.67	6.61	4.49	0.00	0.00	0.00	3.80	0.58	0.08	0.00	0.00	0.00	0.00	0.39
4.50	26.80000	30.80	0.67	6.62	4.50	0.00	0.00	0.00	3.75	0.58	0.08	0.00	0.00	0.00	0.00	0.39
4.40	26.80000	30.80	0.67	6.62	4.52	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
4.30	26.80000	30.80	0.67	6.62	4.53	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
4.20	26.80000	30.80	0.67	6.62	4.55	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
4.10	26.80000	30.80	0.67	6.62	4.56	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
4.00	26.80000	30.80	0.67	6.63	4.58	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
3.90	26.80000	30.80	0.67	6.63	4.59	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
3.80	26.80000	30.80	0.67	6.63	4.60	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
3.70	26.80000	30.80	0.67	6.63	4.62	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
3.60	26.80000	30.80	0.67	6.63	4.63	0.00	0.00	0.00	3.75	0.64	0.08	0.00	0.00	0.00	0.00	0.39
3.50	26.80000	30.80	0.67	6.63	4.64	0.00	0.00	0.00	3.66	0.63	0.08	0.00	0.00	0.00	0.00	0.39
3.40	26.80000	30.80	0.67	6.63	4.65	0.00	0.00	0.00	3.56	0.63	0.08	0.00	0.00	0.00	0.00	0.39
3.30	26.80000	30.80	0.66	6.62	4.67	0.00	0.00	0.00	3.47	0.63	0.08	0.00	0.00	0.00	0.00	0.39
3.20	26.80000	30.80	0.66	6.62	4.68	0.00	0.00	0.00	3.38	0.63	0.08	0.00	0.00	0.00	0.00	0.39
3.10	26.80000	30.80	0.66	6.62	4.69	0.00	0.00	0.00	3.28	0.63	0.08	0.00	0.00	0.00	0.00	0.39
3.00	26.80000	30.80	0.65	6.62	4.70	0.00	0.00	0.00	3.19	0.63	0.08	0.00	0.00	0.00	0.00	0.39
2.90	26.80000	30.80	0.65	6.62	4.71	0.00	0.00	0.00	3.09	0.63	0.08	0.00	0.00	0.00	0.00	0.39
2.80	26.80000	30.80	0.65	6.62	4.71	0.00	0.00	0.00	3.00	0.63	0.08	0.00	0.00	0.00	0.00	0.39

2.70	26.80000	30.80	0.65	6.62	4.72	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.60	26.80000	30.80	0.65	6.62	4.73	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.50	26.80000	30.80	0.65	6.62	4.74	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.40	26.80000	30.80	0.65	6.62	4.75	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.30	26.80000	30.80	0.65	6.62	4.76	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.20	26.80000	30.80	0.65	6.62	4.77	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.10	26.80000	30.80	0.65	6.62	4.78	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
2.00	26.80000	30.80	0.65	6.62	4.79	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.90	26.80000	30.80	0.65	6.63	4.80	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.80	26.80000	30.80	0.65	6.63	4.81	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.70	26.80000	30.80	0.65	6.63	4.82	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.60	26.80000	30.80	0.65	6.63	4.82	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.50	26.80000	30.80	0.65	6.63	4.83	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.40	26.80000	30.80	0.65	6.63	4.84	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.30	26.80000	30.80	0.65	6.63	4.84	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.20	26.80000	30.80	0.65	6.63	4.85	0.00	0.00	0.00	3.00	0.71	0.08	0.00	0.00	0.00	0.00	0.39
1.10	26.80000	30.80	0.65	6.64	4.85	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
1.00	26.80000	30.80	0.65	6.64	4.86	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.90	26.80000	30.80	0.65	6.64	4.87	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.80	26.80000	30.80	0.65	6.65	4.87	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.70	26.80000	30.80	0.65	6.65	4.88	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.60	26.80000	30.80	0.64	6.66	4.90	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.50	26.80000	30.80	0.64	6.66	4.92	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.40	26.80000	30.80	0.64	6.67	4.95	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.30	26.80000	30.80	0.64	6.67	5.00	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.20	26.80000	30.80	0.64	6.68	5.08	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.10	26.80000	30.80	0.64	6.69	5.20	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39
0.00	26.80000	30.80	0.64	6.70	5.41	0.00	0.00	0.00	3.00	1.08	0.08	0.00	0.00	0.00	0.00	0.39

FINAL REPORT
REACH NO. 1 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
1	HDWTR	26.80000	30.80	0.00	369.00	1405.00	5.32	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
1	21.80	21.70	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
2	21.70	21.60	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
3	21.60	21.50	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
4	21.50	21.40	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
5	21.40	21.30	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
6	21.30	21.20	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
7	21.20	21.10	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
8	21.10	21.00	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
9	21.00	20.90	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
10	20.90	20.80	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
11	20.80	20.70	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
12	20.70	20.60	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
13	20.60	20.50	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
14	20.50	20.40	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
15	20.40	20.30	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
16	20.30	20.20	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
17	20.20	20.10	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
18	20.10	20.00	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
19	20.00	19.90	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
20	19.90	19.80	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
21	19.80	19.70	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
22	19.70	19.60	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
23	19.60	19.50	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
24	19.50	19.40	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
25	19.40	19.30	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
26	19.30	19.20	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
27	19.20	19.10	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
28	19.10	19.00	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
29	19.00	18.90	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
30	18.90	18.80	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
TOT						1.23			2848200.00	1212000.00					
AVG					0.02823		2.35	404.00			949.40				
CUM						1.23									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	21.700	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.19	0.00
2	21.600	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.19	0.00
3	21.500	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.19	0.00
4	21.400	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.19	0.00
5	21.300	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.19	0.00
6	21.200	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.19	0.00
7	21.100	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.19	0.00
8	21.000	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.19	0.00
9	20.900	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.19	0.00
10	20.800	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.19	0.00
11	20.700	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.19	0.00
12	20.600	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.19	0.00
13	20.500	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.19	0.00
14	20.400	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.19	0.00
15	20.300	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.19	0.00
16	20.200	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.19	0.00
17	20.100	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.19	0.00
18	20.000	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.19	0.00
19	19.900	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.19	0.00
20	19.800	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.19	0.00
21	19.700	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.19	0.00
22	19.600	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.19	0.00
23	19.500	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.19	0.00
24	19.400	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.19	0.00
25	19.300	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.19	0.00
26	19.200	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.19	0.00
27	19.100	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.19	0.00
28	19.000	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.19	0.00
29	18.900	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.19	0.00
30	18.800	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	3.65	3.65	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.85			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
1	21.700	30.80	0.66	369.00	1405.00	5.28	4.52	0.00	4.52	0.00	0.00	0.00	0.00	0.00	0.00	8.56	0.00	0.	0.84
2	21.600	30.80	0.66	369.00	1405.00	5.27	4.51	0.00	4.51	0.00	0.00	0.00	0.00	0.00	0.00	8.43	0.00	0.	0.84
3	21.500	30.80	0.66	369.00	1405.00	5.26	4.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	8.29	0.00	0.	0.84
4	21.400	30.80	0.66	369.00	1405.00	5.25	4.49	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00	8.15	0.00	0.	0.84
5	21.300	30.80	0.66	369.00	1405.00	5.25	4.48	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00	8.02	0.00	0.	0.83
6	21.200	30.80	0.66	369.00	1405.00	5.24	4.47	0.00	4.47	0.00	0.00	0.00	0.00	0.00	0.00	7.88	0.00	0.	0.83
7	21.100	30.80	0.66	369.00	1405.00	5.23	4.47	0.00	4.47	0.00	0.00	0.00	0.00	0.00	0.00	7.74	0.00	0.	0.83
8	21.000	30.80	0.66	369.00	1405.00	5.22	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	7.61	0.00	0.	0.82
9	20.900	30.80	0.66	369.00	1405.00	5.21	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	7.47	0.00	0.	0.82
10	20.800	30.80	0.66	369.00	1405.00	5.20	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	7.33	0.00	0.	0.82
11	20.700	30.80	0.66	369.00	1405.00	5.19	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.	0.81

12	20.600	30.80	0.66	369.00	1405.00	5.18	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	7.06	0.00	0.	0.81
13	20.500	30.80	0.66	369.00	1405.00	5.17	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	6.92	0.00	0.	0.81
14	20.400	30.80	0.66	369.00	1405.00	5.15	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	6.79	0.00	0.	0.80
15	20.300	30.80	0.66	369.00	1405.00	5.14	4.40	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	6.65	0.00	0.	0.80
16	20.200	30.80	0.66	369.00	1405.00	5.13	4.39	0.00	4.39	0.00	0.00	0.00	0.00	0.00	0.00	6.51	0.00	0.	0.80
17	20.100	30.80	0.66	369.00	1405.00	5.12	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	6.38	0.00	0.	0.80
18	20.000	30.80	0.66	369.00	1405.00	5.11	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	6.24	0.00	0.	0.79
19	19.900	30.80	0.66	369.00	1405.00	5.10	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	6.10	0.00	0.	0.79
20	19.800	30.80	0.66	369.00	1405.00	5.09	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	5.97	0.00	0.	0.79
21	19.700	30.80	0.66	369.00	1405.00	5.08	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	5.83	0.00	0.	0.78
22	19.600	30.80	0.66	369.00	1405.00	5.07	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	5.69	0.00	0.	0.78
23	19.500	30.80	0.66	369.00	1405.00	5.06	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	5.56	0.00	0.	0.78
24	19.400	30.80	0.66	369.00	1405.00	5.05	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	5.42	0.00	0.	0.78
25	19.300	30.80	0.66	369.00	1405.00	5.04	4.32	0.00	4.32	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00	0.	0.77
26	19.200	30.80	0.66	369.00	1405.00	5.03	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	0.00	5.15	0.00	0.	0.77
27	19.100	30.80	0.66	369.00	1405.00	5.02	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	0.00	5.01	0.00	0.	0.77
28	19.000	30.80	0.66	369.00	1405.00	5.01	4.30	0.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.	0.77
29	18.900	30.80	0.66	369.00	1405.00	5.01	4.30	0.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	4.74	0.00	0.	0.77
30	18.800	30.80	0.66	369.00	1405.00	5.01	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77

FINAL REPORT
REACH NO. 2 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
31	UPR RCH	26.80000	30.80	0.66	369.00	1405.00	5.01	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.77

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
31	18.80	18.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
32	18.70	18.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
33	18.60	18.50	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
34	18.50	18.40	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
35	18.40	18.30	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
36	18.30	18.20	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
37	18.20	18.10	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
38	18.10	18.00	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
39	18.00	17.90	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
40	17.90	17.80	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
41	17.80	17.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
42	17.70	17.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
43	17.60	17.50	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
44	17.50	17.40	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
45	17.40	17.30	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
46	17.30	17.20	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
47	17.20	17.10	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033

48	17.10	17.00	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
49	17.00	16.90	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
50	16.90	16.80	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
51	16.80	16.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
52	16.70	16.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
53	16.60	16.50	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
54	16.50	16.40	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
55	16.40	16.30	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
56	16.30	16.20	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
57	16.20	16.10	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
58	16.10	16.00	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
59	16.00	15.90	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
60	15.90	15.80	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
61	15.80	15.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
62	15.70	15.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
TOT						1.11			2571839.75	1094400.00					
AVG					0.03335		2.35	342.00			803.70				
CUM						2.34									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
31	18.700	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
32	18.600	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
33	18.500	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
34	18.400	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
35	18.300	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
36	18.200	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
37	18.100	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
38	18.000	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
39	17.900	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
40	17.800	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
41	17.700	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
42	17.600	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
43	17.500	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
44	17.400	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
45	17.300	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
46	17.200	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
47	17.100	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
48	17.000	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
49	16.900	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
50	16.800	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
51	16.700	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
52	16.600	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
53	16.500	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
54	16.400	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
55	16.300	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
56	16.200	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
57	16.100	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
58	16.000	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
59	15.900	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00

60	15.800	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
61	15.700	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
62	15.600	7.43	0.59	0.08	0.00	0.00	0.00	0.00	0.00	3.02	3.02	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.49	0.05	0.00	0.00	0.00	0.00	0.00	1.53			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
31	18.700	30.80	0.66	369.00	1405.00	5.01	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
32	18.600	30.80	0.66	369.00	1405.00	5.01	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
33	18.500	30.80	0.66	369.00	1405.00	5.01	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
34	18.400	30.80	0.66	369.00	1405.00	5.01	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
35	18.300	30.80	0.66	369.00	1405.00	5.01	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
36	18.200	30.80	0.66	369.00	1405.00	5.01	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
37	18.100	30.80	0.66	369.00	1405.00	5.01	4.27	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
38	18.000	30.80	0.66	369.00	1405.00	5.01	4.27	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
39	17.900	30.80	0.66	369.00	1405.00	5.02	4.27	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
40	17.800	30.80	0.66	369.00	1405.00	5.02	4.27	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
41	17.700	30.80	0.66	369.00	1405.00	5.02	4.27	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
42	17.600	30.80	0.66	369.00	1405.00	5.02	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
43	17.500	30.80	0.66	369.00	1405.00	5.02	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
44	17.400	30.80	0.66	369.00	1405.00	5.02	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
45	17.300	30.80	0.66	369.00	1405.00	5.02	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
46	17.200	30.80	0.67	369.00	1405.00	5.02	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
47	17.100	30.80	0.67	369.00	1405.00	5.02	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
48	17.000	30.80	0.67	369.00	1405.00	5.02	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
49	16.900	30.80	0.67	369.00	1405.00	5.03	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
50	16.800	30.80	0.67	369.00	1405.00	5.03	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
51	16.700	30.80	0.67	369.00	1405.00	5.03	4.24	0.00	4.24	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
52	16.600	30.80	0.67	369.00	1405.00	5.03	4.24	0.00	4.24	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
53	16.500	30.80	0.67	369.00	1405.00	5.04	4.24	0.00	4.24	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
54	16.400	30.80	0.67	369.00	1405.00	5.04	4.24	0.00	4.24	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
55	16.300	30.80	0.67	369.00	1405.00	5.04	4.24	0.00	4.24	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
56	16.200	30.80	0.67	369.00	1405.00	5.05	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
57	16.100	30.80	0.67	369.00	1405.00	5.06	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.77
58	16.000	30.80	0.67	369.00	1405.00	5.07	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.78
59	15.900	30.80	0.67	369.00	1405.00	5.09	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.78
60	15.800	30.80	0.67	369.00	1405.00	5.11	4.27	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.79
61	15.700	30.80	0.67	369.00	1405.00	5.13	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.80
62	15.600	30.80	0.67	369.00	1405.00	5.17	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.81

FINAL REPORT
REACH NO. 3 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L

63	UPR RCH	26.80000	30.80	0.67	369.00	1405.00	5.17	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.81

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
63	15.60	15.50	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
64	15.50	15.40	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
65	15.40	15.30	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
66	15.30	15.20	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
67	15.20	15.10	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
68	15.10	15.00	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
69	15.00	14.90	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
70	14.90	14.80	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
71	14.80	14.70	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
72	14.70	14.60	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
73	14.60	14.50	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
74	14.50	14.40	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
75	14.40	14.30	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
76	14.30	14.20	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
77	14.20	14.10	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
78	14.10	14.00	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
TOT						0.73			1696640.00	704000.00					
AVG					0.02527		2.41	440.00			1060.40				
CUM						3.07									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
63	15.500	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
64	15.400	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
65	15.300	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
66	15.200	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
67	15.100	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
68	15.000	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
69	14.900	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
70	14.800	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
71	14.700	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
72	14.600	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
73	14.500	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
74	14.400	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
75	14.300	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
76	14.200	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
77	14.100	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
78	14.000	7.43	0.52	0.08	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.43	0.05	0.00	0.00	0.00	0.00	0.00	0.07			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
63	15.500	30.80	0.67	369.00	1405.00	5.22	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.82
64	15.400	30.80	0.67	369.00	1405.00	5.25	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.84
65	15.300	30.80	0.67	369.00	1405.00	5.29	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.85
66	15.200	30.80	0.67	369.00	1405.00	5.33	4.40	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.86
67	15.100	30.80	0.67	369.00	1405.00	5.36	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.87
68	15.000	30.80	0.67	369.00	1405.00	5.40	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.88
69	14.900	30.80	0.67	369.00	1405.00	5.43	4.47	0.00	4.47	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.90
70	14.800	30.80	0.67	369.00	1405.00	5.46	4.49	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.91
71	14.700	30.80	0.67	369.00	1405.00	5.49	4.51	0.00	4.51	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.92
72	14.600	30.80	0.67	369.00	1405.00	5.52	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.93
73	14.500	30.80	0.67	369.00	1405.00	5.55	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.94
74	14.400	30.80	0.67	369.00	1405.00	5.58	4.57	0.00	4.57	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.95
75	14.300	30.80	0.67	369.00	1405.00	5.61	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.95
76	14.200	30.80	0.67	369.00	1405.00	5.63	4.60	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.96
77	14.100	30.80	0.67	369.00	1405.00	5.65	4.61	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.97
78	14.000	30.80	0.67	369.00	1405.00	5.67	4.62	0.00	4.62	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.97

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
79	UPR RCH	26.80000	30.80	0.67	369.00	1405.00	5.67	4.62	0.00	4.62	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.97

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
79	14.00	13.90	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
80	13.90	13.80	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
81	13.80	13.70	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
82	13.70	13.60	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
83	13.60	13.50	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
84	13.50	13.40	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
85	13.40	13.30	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
86	13.30	13.20	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
87	13.20	13.10	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
88	13.10	13.00	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
TOT						0.28			659490.00	267000.00					
AVG					0.04064		2.47	267.00			659.49				
CUM						3.36									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
79	13.900	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.19	0.00
80	13.800	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.19	0.00
81	13.700	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.19	0.00
82	13.600	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.19	0.00
83	13.500	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.19	0.00
84	13.400	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.19	0.00
85	13.300	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.19	0.00
86	13.200	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.19	0.00
87	13.100	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.19	0.00
88	13.000	7.43	0.61	0.08	0.00	0.00	0.00	0.00	0.00	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.09			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
79	13.900	30.80	0.67	369.00	1405.00	5.70	4.63	0.00	4.63	0.00	0.00	0.00	0.00	0.00	0.00	5.19	0.00	0.	0.98
80	13.800	30.80	0.67	369.00	1405.00	5.72	4.64	0.00	4.64	0.00	0.00	0.00	0.00	0.00	0.00	5.78	0.00	0.	0.98
81	13.700	30.80	0.67	369.00	1405.00	5.75	4.65	0.00	4.65	0.00	0.00	0.00	0.00	0.00	0.00	6.37	0.00	0.	0.99
82	13.600	30.80	0.67	369.00	1405.00	5.78	4.66	0.00	4.66	0.00	0.00	0.00	0.00	0.00	0.00	6.96	0.00	0.	0.99
83	13.500	30.80	0.68	369.00	1405.00	5.81	4.67	0.00	4.67	0.00	0.00	0.00	0.00	0.00	0.00	7.55	0.00	0.	0.99
84	13.400	30.80	0.68	369.00	1405.00	5.84	4.68	0.00	4.68	0.00	0.00	0.00	0.00	0.00	0.00	8.14	0.00	0.	1.00
85	13.300	30.80	0.68	369.00	1405.00	5.88	4.69	0.00	4.69	0.00	0.00	0.00	0.00	0.00	0.00	8.73	0.00	0.	1.00
86	13.200	30.80	0.68	369.00	1405.00	5.91	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	9.32	0.00	0.	1.00
87	13.100	30.80	0.68	369.00	1405.00	5.95	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	9.91	0.00	0.	1.00
88	13.000	30.80	0.68	369.00	1405.00	5.99	4.72	0.00	4.72	0.00	0.00	0.00	0.00	0.00	0.00	10.50	0.00	0.	0.99

FINAL REPORT
REACH NO. 5 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
89	UPR RCH	26.80000	30.80	0.68	369.00	1405.00	5.99	4.72	0.00	4.72	0.00	0.00	0.00	0.00	0.00	10.50	0.00	0.99

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
89	13.00	12.90	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
90	12.90	12.80	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
91	12.80	12.70	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
92	12.70	12.60	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
93	12.60	12.50	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
94	12.50	12.40	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
95	12.40	12.30	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
96	12.30	12.20	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
97	12.20	12.10	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
98	12.10	12.00	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
99	12.00	11.90	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
100	11.90	11.80	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
101	11.80	11.70	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
102	11.70	11.60	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
TOT						0.50			1164324.00	467600.00					
AVG					0.03222		2.49	334.00			831.66				
CUM						3.86									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
89	12.900	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.19	0.00
90	12.800	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.19	0.00
91	12.700	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.19	0.00
92	12.600	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.19	0.00
93	12.500	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.19	0.00
94	12.400	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.19	0.00
95	12.300	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.19	0.00
96	12.200	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.00	0.00	0.19	0.00
97	12.100	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.19	0.00
98	12.000	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.19	0.00
99	11.900	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.24	0.00	0.00	0.19	0.00
100	11.800	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.19	0.00
101	11.700	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.31	0.00	0.00	0.19	0.00
102	11.600	7.43	0.55	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.45	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
89	12.900	30.80	0.68	369.00	1405.00	6.03	4.73	0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	10.92	0.00	0.	0.98
90	12.800	30.80	0.68	369.00	1405.00	6.06	4.74	0.00	4.74	0.00	0.00	0.00	0.00	0.00	0.00	11.34	0.00	0.	0.98
91	12.700	30.80	0.68	369.00	1405.00	6.10	4.74	0.00	4.74	0.00	0.00	0.00	0.00	0.00	0.00	11.76	0.00	0.	0.97
92	12.600	30.80	0.68	369.00	1405.00	6.14	4.75	0.00	4.75	0.00	0.00	0.00	0.00	0.00	0.00	12.19	0.00	0.	0.97
93	12.500	30.80	0.68	369.00	1405.00	6.18	4.76	0.00	4.76	0.00	0.00	0.00	0.00	0.00	0.00	12.61	0.00	0.	0.96
94	12.400	30.80	0.68	369.00	1405.00	6.21	4.77	0.00	4.77	0.00	0.00	0.00	0.00	0.00	0.00	13.03	0.00	0.	0.95
95	12.300	30.80	0.68	369.00	1405.00	6.25	4.78	0.00	4.78	0.00	0.00	0.00	0.00	0.00	0.00	13.45	0.00	0.	0.95
96	12.200	30.80	0.68	369.00	1405.00	6.29	4.78	0.00	4.78	0.00	0.00	0.00	0.00	0.00	0.00	13.87	0.00	0.	0.94
97	12.100	30.80	0.68	369.00	1405.00	6.33	4.79	0.00	4.79	0.00	0.00	0.00	0.00	0.00	0.00	14.29	0.00	0.	0.93
98	12.000	30.80	0.68	369.00	1405.00	6.37	4.80	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	14.71	0.00	0.	0.93
99	11.900	30.80	0.68	369.00	1404.99	6.42	4.80	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	15.14	0.00	0.	0.92
100	11.800	30.80	0.68	369.00	1404.99	6.46	4.81	0.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	15.56	0.00	0.	0.91
101	11.700	30.80	0.68	369.00	1404.99	6.51	4.81	0.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	15.98	0.00	0.	0.91
102	11.600	30.80	0.68	369.00	1404.99	6.55	4.81	0.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.90

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
103	UPR RCH	26.80000	30.80	0.68	369.00	1404.99	6.55	4.81	0.00	4.81	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.90
112	WSTLD	-6.16400	30.80	0.68	369.00	1404.99	6.94	4.77	0.00	4.77	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.83

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
103	11.60	11.50	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
104	11.50	11.40	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
105	11.40	11.30	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
106	11.30	11.20	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
107	11.20	11.10	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
108	11.10	11.00	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
109	11.00	10.90	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
110	10.90	10.80	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
111	10.80	10.70	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
112	10.70	10.60	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
113	10.60	10.50	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
114	10.50	10.40	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
115	10.40	10.30	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
116	10.30	10.20	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
117	10.20	10.10	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
TOT						0.72			1492500.00	597000.00					
AVG					0.02406		2.50	398.00			995.00				
CUM						4.58									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
103	11.500	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
104	11.400	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
105	11.300	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
106	11.200	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
107	11.100	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
108	11.000	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
109	10.900	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
110	10.800	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
111	10.700	7.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
112	10.600	7.43	0.47	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00

113	10.500	7.43	0.47	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
114	10.400	7.43	0.47	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
115	10.300	7.43	0.47	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
116	10.200	7.43	0.47	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
117	10.100	7.43	0.47	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.41	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
103	11.500	30.80	0.68	369.00	1404.99	6.60	4.80	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.89
104	11.400	30.80	0.68	369.00	1404.99	6.64	4.80	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.89
105	11.300	30.80	0.68	369.00	1404.99	6.68	4.80	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.88
106	11.200	30.80	0.68	369.00	1404.99	6.72	4.80	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.87
107	11.100	30.80	0.68	369.00	1404.99	6.76	4.79	0.00	4.79	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.87
108	11.000	30.80	0.68	369.00	1404.99	6.80	4.79	0.00	4.79	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.86
109	10.900	30.80	0.68	369.00	1404.99	6.83	4.79	0.00	4.79	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.85
110	10.800	30.80	0.68	369.00	1404.99	6.87	4.78	0.00	4.78	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.85
111	10.700	30.80	0.68	369.00	1404.99	6.90	4.78	0.00	4.78	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.84
112	10.600	30.80	0.68	369.00	1404.99	6.94	4.77	0.00	4.77	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.83
113	10.500	30.80	0.68	369.00	1404.99	6.97	4.77	0.00	4.77	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.83
114	10.400	30.80	0.68	369.00	1404.99	7.00	4.76	0.00	4.76	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.82
115	10.300	30.80	0.68	369.00	1404.99	7.02	4.76	0.00	4.76	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.82
116	10.200	30.80	0.68	369.00	1404.99	7.04	4.75	0.00	4.75	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.81
117	10.100	30.80	0.68	369.00	1404.99	7.06	4.75	0.00	4.75	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	0.81

FINAL REPORT
REACH NO. 7 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
118	UPR RCH	20.63600	30.80	0.68	369.00	1404.99	7.06	4.75	0.00	4.75	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.81

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
118	10.10	10.00	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
119	10.00	9.90	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
120	9.90	9.80	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
121	9.80	9.70	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
122	9.70	9.60	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
123	9.60	9.50	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
124	9.50	9.40	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
125	9.40	9.30	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
126	9.30	9.20	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
127	9.20	9.10	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
128	9.10	9.00	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
129	9.00	8.90	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
130	8.90	8.80	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
131	8.80	8.70	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
132	8.70	8.60	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
133	8.60	8.50	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
134	8.50	8.40	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
TOT						0.55			981750.00	392700.00					
AVG					0.03573		2.50	231.00			577.50				
CUM						5.13									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
118	10.000	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00	0.00	0.19	0.00
119	9.900	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.19	0.00
120	9.800	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.19	0.00
121	9.700	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.00	0.00	0.19	0.00
122	9.600	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.19	0.00
123	9.500	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.19	0.00
124	9.400	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.19	0.00
125	9.300	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.19	0.00
126	9.200	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.19	0.00
127	9.100	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.19	0.00
128	9.000	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.19	0.00
129	8.900	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.19	0.00
130	8.800	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.19	0.00
131	8.700	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.19	0.00
132	8.600	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.19	0.00
133	8.500	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.19	0.00
134	8.400	7.43	0.57	0.08	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.47	0.05	0.00	0.00	0.00	0.00	0.00	0.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
118	10.000	30.80	0.68	369.00	1404.99	7.07	4.74	0.00	4.74	0.00	0.00	0.00	0.00	0.00	0.00	16.05	0.00	0.	0.80
119	9.900	30.80	0.68	369.00	1404.99	7.09	4.72	0.00	4.72	0.00	0.00	0.00	0.00	0.00	0.00	15.70	0.00	0.	0.80
120	9.800	30.80	0.68	369.00	1404.99	7.10	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	15.35	0.00	0.	0.80
121	9.700	30.80	0.68	369.00	1405.00	7.11	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.	0.79
122	9.600	30.80	0.68	369.00	1405.00	7.13	4.69	0.00	4.69	0.00	0.00	0.00	0.00	0.00	0.00	14.65	0.00	0.	0.79
123	9.500	30.80	0.68	369.00	1405.00	7.14	4.67	0.00	4.67	0.00	0.00	0.00	0.00	0.00	0.00	14.30	0.00	0.	0.78
124	9.400	30.80	0.68	369.00	1405.00	7.15	4.66	0.00	4.66	0.00	0.00	0.00	0.00	0.00	0.00	13.95	0.00	0.	0.78
125	9.300	30.80	0.68	369.00	1405.00	7.15	4.65	0.00	4.65	0.00	0.00	0.00	0.00	0.00	0.00	13.60	0.00	0.	0.77
126	9.200	30.80	0.69	369.00	1404.99	7.16	4.64	0.00	4.64	0.00	0.00	0.00	0.00	0.00	0.00	13.25	0.00	0.	0.77
127	9.100	30.80	0.69	369.00	1404.99	7.17	4.63	0.00	4.63	0.00	0.00	0.00	0.00	0.00	0.00	12.90	0.00	0.	0.76
128	9.000	30.80	0.69	369.00	1404.99	7.17	4.62	0.00	4.62	0.00	0.00	0.00	0.00	0.00	0.00	12.55	0.00	0.	0.76
129	8.900	30.80	0.69	369.00	1405.00	7.17	4.60	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	12.20	0.00	0.	0.76
130	8.800	30.80	0.69	369.00	1405.00	7.17	4.59	0.00	4.59	0.00	0.00	0.00	0.00	0.00	0.00	11.85	0.00	0.	0.75
131	8.700	30.80	0.69	369.00	1404.99	7.17	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	11.50	0.00	0.	0.75
132	8.600	30.80	0.69	369.00	1404.99	7.17	4.57	0.00	4.57	0.00	0.00	0.00	0.00	0.00	0.00	11.15	0.00	0.	0.74
133	8.500	30.80	0.69	369.00	1404.99	7.16	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.	0.74
134	8.400	30.80	0.69	369.00	1404.99	7.16	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00	0.	0.74

FINAL REPORT
REACH NO. 8 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
135	UPR RCH	20.63600	30.80	0.69	369.00	1404.99	7.16	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	10.45	0.00	0.74

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
135	8.40	8.30	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
136	8.30	8.20	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
137	8.20	8.10	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
138	8.10	8.00	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
139	8.00	7.90	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
140	7.90	7.80	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
141	7.80	7.70	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
142	7.70	7.60	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
143	7.60	7.50	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
144	7.50	7.40	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
145	7.40	7.30	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
146	7.30	7.20	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049

147	7.20	7.10	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
148	7.10	7.00	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
149	7.00	6.90	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
150	6.90	6.80	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
TOT						0.38			673920.00	288000.00					
AVG					0.04899		2.34	180.00			421.20				
CUM						5.51									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
135	8.300	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.19	0.00
136	8.200	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.19	0.00
137	8.100	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.19	0.00
138	8.000	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.19	0.00
139	7.900	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.19	0.00
140	7.800	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.19	0.00
141	7.700	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.19	0.00
142	7.600	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.19	0.00
143	7.500	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.19	0.00
144	7.400	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.19	0.00
145	7.300	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.19	0.00
146	7.200	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.19	0.00
147	7.100	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.19	0.00
148	7.000	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.19	0.00
149	6.900	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.19	0.00
150	6.800	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.58	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
135	8.300	30.80	0.69	369.00	1404.99	7.14	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	10.08	0.00	0.	0.74
136	8.200	30.80	0.69	369.00	1404.99	7.12	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	9.71	0.00	0.	0.73
137	8.100	30.80	0.69	369.00	1404.99	7.10	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	9.33	0.00	0.	0.73
138	8.000	30.80	0.69	369.00	1404.99	7.08	4.52	0.00	4.52	0.00	0.00	0.00	0.00	0.00	0.00	8.96	0.00	0.	0.73
139	7.900	30.80	0.69	369.00	1404.99	7.06	4.51	0.00	4.51	0.00	0.00	0.00	0.00	0.00	0.00	8.59	0.00	0.	0.72
140	7.800	30.80	0.69	368.99	1404.98	7.04	4.51	0.00	4.51	0.00	0.00	0.00	0.00	0.00	0.00	8.22	0.00	0.	0.72
141	7.700	30.80	0.69	368.99	1404.98	7.02	4.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	7.85	0.00	0.	0.72
142	7.600	30.80	0.69	368.99	1404.97	7.00	4.49	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00	7.47	0.00	0.	0.71
143	7.500	30.80	0.70	368.99	1404.96	6.98	4.48	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	0.	0.71
144	7.400	30.80	0.70	368.98	1404.94	6.96	4.47	0.00	4.47	0.00	0.00	0.00	0.00	0.00	0.00	6.73	0.00	0.	0.71
145	7.300	30.80	0.70	368.97	1404.91	6.93	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	6.36	0.00	0.	0.71
146	7.200	30.80	0.70	368.96	1404.88	6.91	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	5.99	0.00	0.	0.70
147	7.100	30.80	0.70	368.93	1404.82	6.88	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	5.62	0.00	0.	0.70

148	7.000	30.80	0.70	368.90	1404.73	6.86	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	5.24	0.00	0.	0.70
149	6.900	30.80	0.70	368.86	1404.60	6.83	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.	0.70
150	6.800	30.80	0.70	368.79	1404.41	6.79	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.70

FINAL REPORT
REACH NO. 9 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
151	UPR RCH	20.63600	30.80	0.70	368.79	1404.41	6.79	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.70

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
151	6.80	6.70	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
152	6.70	6.60	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
153	6.60	6.50	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
154	6.50	6.40	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
155	6.40	6.30	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
156	6.30	6.20	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
157	6.20	6.10	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
158	6.10	6.00	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
159	6.00	5.90	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
TOT						0.29			515592.00	237600.00					
AVG					0.03602		2.17	264.00			572.88				
CUM						5.80									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
151	6.700	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
152	6.600	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
153	6.500	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
154	6.400	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
155	6.300	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
156	6.200	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
157	6.100	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
158	6.000	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
159	5.900	7.43	0.66	0.08	0.00	0.00	0.00	0.00	0.00	2.96	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.54	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
151	6.700	30.80	0.70	368.70	1404.17	6.76	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.70
152	6.600	30.80	0.70	368.60	1403.88	6.73	4.40	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.70
153	6.500	30.80	0.70	368.45	1403.48	6.70	4.40	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.70
154	6.400	30.80	0.70	368.26	1402.93	6.68	4.39	0.00	4.39	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.71
155	6.300	30.80	0.70	367.99	1402.19	6.65	4.40	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.71
156	6.200	30.80	0.70	367.63	1401.18	6.63	4.40	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.73
157	6.100	30.80	0.70	367.13	1399.81	6.61	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.75
158	6.000	30.80	0.70	366.46	1397.94	6.60	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.78
159	5.900	30.80	0.70	365.55	1395.40	6.59	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	0.82

FINAL REPORT LA-QUAL model for Bayou Des Allemands (020301)
REACH NO. 10 Bayou Des Allemands SUMMER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
160	UPR RCH	20.63600	30.80	0.70	365.55	1395.40	6.59	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.82
163	WSTLD	6.16400	27.88	0.71	346.00	1341.00	6.25	6.50	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
160	5.90	5.80	20.63600	0.0	0.00990	0.12	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.010
161	5.80	5.70	20.63600	0.0	0.00990	0.12	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.010
162	5.70	5.60	20.63600	0.0	0.00990	0.12	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.010
163	5.60	5.50	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
164	5.50	5.40	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
165	5.40	5.30	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
166	5.30	5.20	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
167	5.20	5.10	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
168	5.10	5.00	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
169	5.00	4.90	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
170	4.90	4.80	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
171	4.80	4.70	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
172	4.70	4.60	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
173	4.60	4.50	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
TOT						1.34			2917964.00	1481200.00					
AVG					0.01208		1.97	1058.00			2084.26				
CUM						7.14									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
160	5.800	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.19	0.00
161	5.700	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.19	0.00
162	5.600	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.19	0.00
163	5.500	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.19	0.00
164	5.400	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.19	0.00
165	5.300	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.19	0.00
166	5.200	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.19	0.00
167	5.100	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.19	0.00
168	5.000	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.19	0.00
169	4.900	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.19	0.00
170	4.800	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.19	0.00
171	4.700	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.19	0.00
172	4.600	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
173	4.500	7.43	0.58	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.47	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
160	5.800	30.80	0.70	365.01	1393.91	6.59	4.48	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00	4.45	0.00	0.	0.85
161	5.700	30.80	0.70	364.62	1392.81	6.59	4.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	4.39	0.00	0.	0.86
162	5.600	30.80	0.69	364.19	1391.61	6.59	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	4.34	0.00	0.	0.88
163	5.500	30.80	0.69	363.71	1390.28	6.58	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	4.29	0.00	0.	0.90
164	5.400	30.80	0.69	363.71	1390.28	6.59	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	4.23	0.00	0.	0.91
165	5.300	30.80	0.69	363.71	1390.28	6.59	4.52	0.00	4.52	0.00	0.00	0.00	0.00	0.00	0.00	4.18	0.00	0.	0.91
166	5.200	30.80	0.69	363.71	1390.28	6.60	4.51	0.00	4.51	0.00	0.00	0.00	0.00	0.00	0.00	4.12	0.00	0.	0.92
167	5.100	30.80	0.68	363.71	1390.28	6.60	4.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	4.07	0.00	0.	0.93
168	5.000	30.80	0.68	363.71	1390.28	6.60	4.49	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00	4.02	0.00	0.	0.94
169	4.900	30.80	0.68	363.71	1390.28	6.61	4.48	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00	3.96	0.00	0.	0.94
170	4.800	30.80	0.68	363.71	1390.28	6.61	4.48	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00	3.91	0.00	0.	0.95
171	4.700	30.80	0.67	363.71	1390.28	6.61	4.48	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00	3.86	0.00	0.	0.96
172	4.600	30.80	0.67	363.71	1390.28	6.61	4.49	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00	3.80	0.00	0.	0.96
173	4.500	30.80	0.67	363.71	1390.28	6.62	4.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.97

FINAL REPORT
REACH NO. 11 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
174	UPR RCH	26.80000	30.80	0.67	363.71	1390.28	6.62	4.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.97

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
174	4.50	4.40	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
175	4.40	4.30	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
176	4.30	4.20	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
177	4.20	4.10	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
178	4.10	4.00	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
179	4.00	3.90	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
180	3.90	3.80	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
181	3.80	3.70	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
182	3.70	3.60	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
TOT						0.84			1938816.00	1101600.00					
AVG					0.01244		1.76	1224.00			2154.24				
CUM						7.98									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
174	4.400	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
175	4.300	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
176	4.200	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
177	4.100	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
178	4.000	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
179	3.900	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
180	3.800	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
181	3.700	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
182	3.600	7.43	0.64	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.53	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
174	4.400	30.80	0.67	363.71	1390.28	6.62	4.52	0.00	4.52	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.98
175	4.300	30.80	0.67	363.71	1390.29	6.62	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.99
176	4.200	30.80	0.67	363.71	1390.29	6.62	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	0.99
177	4.100	30.80	0.67	363.71	1390.29	6.62	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.00
178	4.000	30.80	0.67	363.71	1390.29	6.63	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.01
179	3.900	30.80	0.67	363.71	1390.29	6.63	4.59	0.00	4.59	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.01
180	3.800	30.80	0.67	363.71	1390.29	6.63	4.60	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.02
181	3.700	30.80	0.67	363.71	1390.29	6.63	4.62	0.00	4.62	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.02
182	3.600	30.80	0.67	363.71	1390.29	6.63	4.63	0.00	4.63	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.03

FINAL REPORT
REACH NO. 12 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
183	UPR RCH	26.80000	30.80	0.67	363.71	1390.29	6.63	4.63	0.00	4.63	0.00	0.00	0.00	0.00	0.00	3.75	0.00	1.03

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
183	3.60	3.50	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
184	3.50	3.40	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
185	3.40	3.30	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
186	3.30	3.20	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
187	3.20	3.10	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
188	3.10	3.00	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
189	3.00	2.90	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
190	2.90	2.80	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
TOT						0.63			1462480.00	808000.00					
AVG					0.01466		1.81	1010.00			1828.10				
CUM						8.61									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
183	3.500	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.19	0.00
184	3.400	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.19	0.00
185	3.300	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.19	0.00
186	3.200	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.19	0.00
187	3.100	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.19	0.00
188	3.000	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.19	0.00
189	2.900	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
190	2.800	7.43	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.51	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
183	3.500	30.80	0.67	363.71	1390.29	6.63	4.64	0.00	4.64	0.00	0.00	0.00	0.00	0.00	0.00	3.66	0.00	0.	1.03
184	3.400	30.80	0.67	363.71	1390.29	6.63	4.65	0.00	4.65	0.00	0.00	0.00	0.00	0.00	0.00	3.56	0.00	0.	1.04
185	3.300	30.80	0.66	363.71	1390.29	6.62	4.67	0.00	4.67	0.00	0.00	0.00	0.00	0.00	0.00	3.47	0.00	0.	1.04
186	3.200	30.80	0.66	363.71	1390.29	6.62	4.68	0.00	4.68	0.00	0.00	0.00	0.00	0.00	0.00	3.38	0.00	0.	1.04
187	3.100	30.80	0.66	363.71	1390.29	6.62	4.69	0.00	4.69	0.00	0.00	0.00	0.00	0.00	0.00	3.28	0.00	0.	1.05
188	3.000	30.80	0.65	363.71	1390.29	6.62	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	3.19	0.00	0.	1.05
189	2.900	30.80	0.65	363.71	1390.29	6.62	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	3.09	0.00	0.	1.05
190	2.800	30.80	0.65	363.71	1390.29	6.62	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.06

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
191	UPR RCH	26.80000	30.80	0.65	363.71	1390.29	6.62	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	3.00	0.00	1.06

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
191	2.80	2.70	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
192	2.70	2.60	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
193	2.60	2.50	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
194	2.50	2.40	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
195	2.40	2.30	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
196	2.30	2.20	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
197	2.20	2.10	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
198	2.10	2.00	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
199	2.00	1.90	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
200	1.90	1.80	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
201	1.80	1.70	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
202	1.70	1.60	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
203	1.60	1.50	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
204	1.50	1.40	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
205	1.40	1.30	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
206	1.30	1.20	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
TOT						0.64			1480000.00	800000.00					
AVG					0.02897		1.85	500.00			925.00				
CUM						9.25									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
191	2.700	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
192	2.600	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
193	2.500	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
194	2.400	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
195	2.300	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
196	2.200	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
197	2.100	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
198	2.000	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
199	1.900	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
200	1.800	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
201	1.700	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00

202	1.600	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
203	1.500	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
204	1.400	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
205	1.300	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
206	1.200	7.43	0.71	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.58	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
191	2.700	30.80	0.65	363.71	1390.29	6.62	4.72	0.00	4.72	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.06
192	2.600	30.80	0.65	363.71	1390.28	6.62	4.73	0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.06
193	2.500	30.80	0.65	363.71	1390.28	6.62	4.74	0.00	4.74	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.06
194	2.400	30.80	0.65	363.71	1390.28	6.62	4.75	0.00	4.75	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.07
195	2.300	30.80	0.65	363.71	1390.27	6.62	4.76	0.00	4.76	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.07
196	2.200	30.80	0.65	363.71	1390.27	6.62	4.77	0.00	4.77	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.07
197	2.100	30.80	0.65	363.70	1390.26	6.62	4.78	0.00	4.78	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.07
198	2.000	30.80	0.65	363.70	1390.25	6.62	4.79	0.00	4.79	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.08
199	1.900	30.80	0.65	363.70	1390.24	6.63	4.80	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.08
200	1.800	30.80	0.65	363.69	1390.22	6.63	4.81	0.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.08
201	1.700	30.80	0.65	363.69	1390.20	6.63	4.82	0.00	4.82	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.08
202	1.600	30.80	0.65	363.68	1390.18	6.63	4.82	0.00	4.82	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.09
203	1.500	30.80	0.65	363.67	1390.15	6.63	4.83	0.00	4.83	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.09
204	1.400	30.80	0.65	363.66	1390.10	6.63	4.84	0.00	4.84	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.09
205	1.300	30.80	0.65	363.64	1390.05	6.63	4.84	0.00	4.84	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.09
206	1.200	30.80	0.65	363.62	1389.98	6.63	4.85	0.00	4.85	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.09

FINAL REPORT
REACH NO. 14 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
207	UPR RCH	26.80000	30.80	0.65	363.62	1389.98	6.63	4.85	0.00	4.85	0.00	0.00	0.00	0.00	0.00	3.00	0.00	1.09

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
207	1.20	1.10	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
208	1.10	1.00	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
209	1.00	0.90	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
210	0.90	0.80	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
211	0.80	0.70	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
212	0.70	0.60	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
213	0.60	0.50	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
214	0.50	0.40	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
215	0.40	0.30	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
216	0.30	0.20	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
217	0.20	0.10	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
218	0.10	0.00	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
TOT						0.20			472860.00	255600.00					
AVG					0.06801		1.85	213.00			394.05				
CUM						9.45									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
207	1.100	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
208	1.000	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
209	0.900	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
210	0.800	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
211	0.700	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
212	0.600	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
213	0.500	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
214	0.400	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
215	0.300	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
216	0.200	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
217	0.100	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
218	0.000	7.43	1.08	0.08	0.00	0.00	0.00	0.00	0.00	0.39	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.19	0.00
AVG 20 DEG C RATE			0.88	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
207	1.100	30.80	0.65	363.58	1389.85	6.64	4.85	0.00	4.85	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.09
208	1.000	30.80	0.65	363.49	1389.55	6.64	4.86	0.00	4.86	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.09
209	0.900	30.80	0.65	363.34	1389.04	6.64	4.87	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.10
210	0.800	30.80	0.65	363.09	1388.18	6.65	4.87	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.10
211	0.700	30.80	0.65	362.67	1386.74	6.65	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.10
212	0.600	30.80	0.64	361.96	1384.33	6.66	4.90	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.11
213	0.500	30.80	0.64	360.78	1380.27	6.66	4.92	0.00	4.92	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.12
214	0.400	30.80	0.64	358.78	1373.46	6.67	4.95	0.00	4.95	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.13
215	0.300	30.80	0.64	355.42	1362.00	6.67	5.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.15
216	0.200	30.80	0.64	349.78	1342.76	6.68	5.08	0.00	5.08	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.18
217	0.100	30.80	0.64	340.30	1310.44	6.69	5.20	0.00	5.20	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.24
218	0.000	30.80	0.64	324.38	1256.13	6.70	5.41	0.00	5.41	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.34

STREAM SUMMARY

LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO projection meeting standards

TRAVEL TIME = 9.45 DAYS

MAXIMUM EFFLUENT = 23.00 PERCENT

FLOW	=	20.63600	TO	26.80000	m³/s
DISPERSION	=	10.0000	TO	10.0000	m²/s
VELOCITY	=	0.00990	TO	0.06801	m/s
DEPTH	=	1.76	TO	2.50	m
WIDTH	=	180.00	TO	******	m
BOD DECAY	=	0.08	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.14	TO	3.65	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d
REAERATION	=	0.47	TO	1.08	per day
BOD SETTLING	=	0.00	TO	0.00	per day
ORG-N DECAY	=	0.00	TO	0.00	per day
ORG-N SETTLING	=	0.00	TO	0.00	per day
TEMPERATURE	=	30.80	TO	30.80	deg C
DISSOLVED OXYGEN	=	5.01	TO	7.17	mg/L

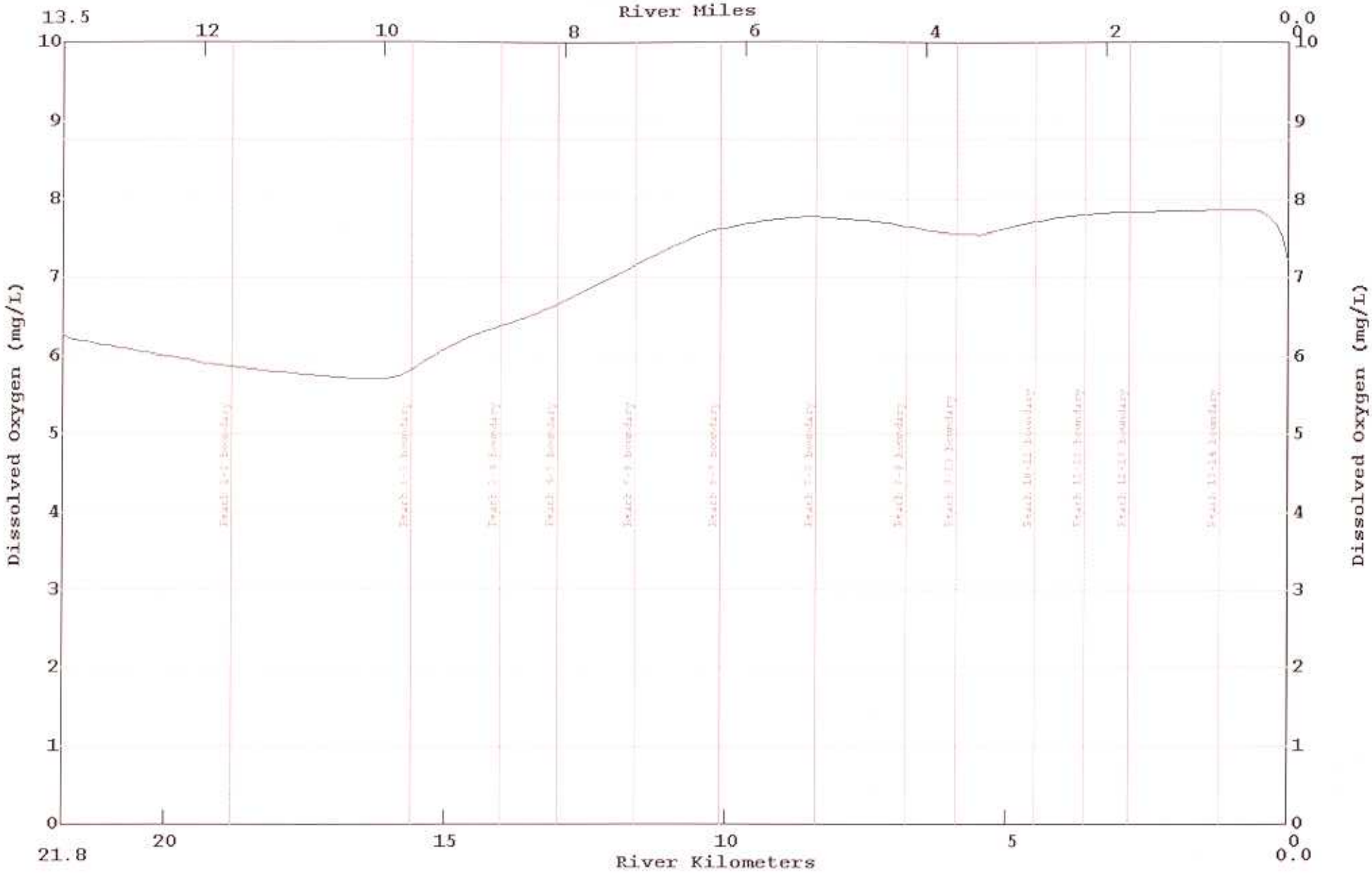
LA-QUAL model for Bayou Des Allemands (020301)
SUMMER DO projection meeting standards

INPUT/OUTPUT LOADING SUMMARY

	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER INFLOW	26.800	12318.6	10558.8	0.0	0.0	0.0	0.0	0.0	0.0	1991.3
INCREMENTAL INFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	6.164	3328.6	3461.7	0.0	0.0	0.0	0.0	0.0	0.0	703.0
WITHDRAWLS	-6.164	-3693.9	-2542.7	0.0	0.0	0.0	0.0	0.0	0.0	-444.0
OUTFLOW THRU LOWER BNDRY	-26.800	-15514.8	-12537.2	0.0	0.0	0.0	0.0	0.0	0.0	-3100.6
DISPERSION THRU LOWER BNDRY		65.7	1195.6	0.0	0.0	0.0	0.0	0.0	0.0	551.2
NON-POINT INPUT		0.0	7668.0	0.0	0.0					3800.0
NATURAL REAERATION		15784.1								
DAM REAERATION		0.0								
BACKGROUND SOD		-11996.6								
BOD#1 DECAY		-7804.2	-7804.2							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY			0.0							
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY				0.0						
ORG-N DECAY		0.0			0.0	0.0				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		0.0				0.0	0.0			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		11013.6				0.0	0.0	0.0	0.0	
ALGAE RESPIRATION		0.0				0.0		0.0	0.0	
ALGAE SETTLING		0.0							0.0	
MACRO PHOTOSYNTHESIS		0.0				0.0	0.0	0.0		
NCM DECAY		-3501.1								-3501.1
NCM SETTLING		0.0								0.0
TOTAL INPUTS	32.964	42510.5	22884.0	0.0	0.0	0.0	0.0	0.0	0.0	7045.6
TOTAL OUTPUTS	-32.964	-42510.6	-22884.0	0.0	0.0	0.0	0.0	0.0	0.0	-7045.6
NET CONVERGENCE ERROR	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

.....EXECUTION COMPLETED

LA-QUAL Version 6.02 Run at 15:48 on 01/30/2004 File R:\projects\3110-051\la-qual\des_all\proj\winter\bda_wint.txt
WINTER DO projection meeting standards min= 5.71 max= 7.88
BAYOU DES ALLEMANDS REACHES 1-14



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LA-QUAL Version 6.02
Louisiana Department of Environmental Quality

Input file is R:\projects\3110-051\la-qual\des_all\revisions\proj\winter\bda_wint.txt
Output produced at 13:55 on 03/30/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Des Allemands (020301)
TITLE02         WINTER DO projection meeting standards
CNTROL03   NO   SEQU                        <Warning: legacy control - line ignored>
CNTROL04  YES   METR
CNTROL05  YES   OXYG                        <Warning: legacy control - line ignored>
ENDATA01

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

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMP
MODOPT02   NO   SALI
MODOPT03  YES   CONSERVATIVE MATERIAL  I = Chloride                  IN mg/L      CL
MODOPT04  YES   CONSERVATIVE MATERIAL II = Conductivity              IN umhos     COND
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BIOCHEMICAL OXYGEN DEMAND
MODOPT07   NO   NITR
MODOPT08   NO   PHOS
MODOPT09   NO   CHLO
MODOPT10   NO   MACR
MODOPT11   NO   COLI
MODOPT12  YES   NONCONSERVATIVE MATERIAL = Nitrogenous BOD           IN mg/L      NBOD
ENDATA02

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

PROGRAM         HYDRAULIC CALCULATION METHOD       =         2.00000 (widths and depths)
PROGRAM         NCM OXYGEN UPTAKE RATE             =         1.00000 mg O/mg NCM
PROGRAM         KL MINIMUM                         =         1.17000 meters/day
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05
```

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

CARD TYPE DESCRIPTION OF CONSTANT VALUE

ENDATA06

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

CARD TYPE DESCRIPTION OF CONSTANT VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$

CARD TYPE	REACH	ID	NAME	BEGIN REACH km		END REACH km	ELEM LENGTH km	REACH LENGTH km	ELEMS PER RCH	BEGIN ELEM NUM	END ELEM NUM
REACH ID	1	DA	Bayou Des Allemands	21.80	TO	18.80	0.1000	3.00	30	1	30
REACH ID	2	DA	Bayou Des Allemands	18.80	TO	15.60	0.1000	3.20	32	31	62
REACH ID	3	DA	Bayou Des Allemands	15.60	TO	14.00	0.1000	1.60	16	63	78
REACH ID	4	DA	Bayou Des Allemands	14.00	TO	13.00	0.1000	1.00	10	79	88
REACH ID	5	DA	Bayou Des Allemands	13.00	TO	11.60	0.1000	1.40	14	89	102
REACH ID	6	DA	Bayou Des Allemands	11.60	TO	10.10	0.1000	1.50	15	103	117
REACH ID	7	DA	Bayou Des Allemands	10.10	TO	8.40	0.1000	1.70	17	118	134
REACH ID	8	DA	Bayou Des Allemands	8.40	TO	6.80	0.1000	1.60	16	135	150
REACH ID	9	DA	Bayou Des Allemands	6.80	TO	5.90	0.1000	0.90	9	151	159
REACH ID	10	DA	Bayou Des Allemands	5.90	TO	4.50	0.1000	1.40	14	160	173
REACH ID	11	DA	Bayou Des Allemands	4.50	TO	3.60	0.1000	0.90	9	174	182
REACH ID	12	DA	Bayou Des Allemands	3.60	TO	2.80	0.1000	0.80	8	183	190
REACH ID	13	DA	Bayou Des Allemands	2.80	TO	1.20	0.1000	1.60	16	191	206
REACH ID	14	DA	Bayou Des Allemands	1.20	TO	0.00	0.1000	1.20	12	207	218

ENDATA08

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

CARD TYPE	REACH	ID	WIDTH "A"	WIDTH "B"	WIDTH "C"	DEPTH "D"	DEPTH "E"	DEPTH "F"	SLOPE	MANNINGS "N"
HYDR-1	1	DA	0.000	0.000	404.000	0.000	0.000	2.350	0.00000	0.000
HYDR-1	2	DA	0.000	0.000	342.000	0.000	0.000	2.350	0.00000	0.000
HYDR-1	3	DA	0.000	0.000	440.000	0.000	0.000	2.410	0.00000	0.000
HYDR-1	4	DA	0.000	0.000	267.000	0.000	0.000	2.470	0.00000	0.000
HYDR-1	5	DA	0.000	0.000	334.000	0.000	0.000	2.490	0.00000	0.000
HYDR-1	6	DA	0.000	0.000	398.000	0.000	0.000	2.500	0.00000	0.000
HYDR-1	7	DA	0.000	0.000	231.000	0.000	0.000	2.500	0.00000	0.000
HYDR-1	8	DA	0.000	0.000	180.000	0.000	0.000	2.340	0.00000	0.000
HYDR-1	9	DA	0.000	0.000	264.000	0.000	0.000	2.170	0.00000	0.000
HYDR-1	10	DA	0.000	0.000	1058.000	0.000	0.000	1.970	0.00000	0.000
HYDR-1	11	DA	0.000	0.000	1224.000	0.000	0.000	1.760	0.00000	0.000
HYDR-1	12	DA	0.000	0.000	1010.000	0.000	0.000	1.810	0.00000	0.000
HYDR-1	13	DA	0.000	0.000	500.000	0.000	0.000	1.850	0.00000	0.000
HYDR-1	14	DA	0.000	0.000	213.000	0.000	0.000	1.850	0.00000	0.000

ENDATA09

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

CARD TYPE	REACH	ID	TIDAL RANGE	DISPERSION "A"	DISPERSION "B"	DISPERSION "C"	DISPERSION "D"
HYDR	1	DA	0.00	10.000	0.000	0.000	0.000
HYDR	2	DA	0.00	10.000	0.000	0.000	0.000
HYDR	3	DA	0.00	10.000	0.000	0.000	0.000
HYDR	4	DA	0.00	10.000	0.000	0.000	0.000
HYDR	5	DA	0.00	10.000	0.000	0.000	0.000
HYDR	6	DA	0.00	10.000	0.000	0.000	0.000
HYDR	7	DA	0.00	10.000	0.000	0.000	0.000
HYDR	8	DA	0.00	10.000	0.000	0.000	0.000
HYDR	9	DA	0.00	10.000	0.000	0.000	0.000
HYDR	10	DA	0.00	10.000	0.000	0.000	0.000
HYDR	11	DA	0.00	10.000	0.000	0.000	0.000
HYDR	12	DA	0.00	10.000	0.000	0.000	0.000
HYDR	13	DA	0.00	10.000	0.000	0.000	0.000
HYDR	14	DA	0.00	10.000	0.000	0.000	0.000

ENDATA10

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

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	DA	21.68	0.66	6.17	0.00	0.00	0.00	8.70	0.00
INITIAL	2	DA	21.68	0.66	6.17	0.00	0.00	0.00	4.60	0.00
INITIAL	3	DA	21.68	0.67	6.65	0.00	0.00	0.00	4.60	0.00
INITIAL	4	DA	21.68	0.67	6.65	0.00	0.00	0.00	4.60	0.00
INITIAL	5	DA	21.68	0.68	7.13	0.00	0.00	0.00	10.50	0.00
INITIAL	6	DA	21.68	0.68	7.13	0.00	0.00	0.00	16.40	0.00
INITIAL	7	DA	21.68	0.68	7.13	0.00	0.00	0.00	16.40	0.00
INITIAL	8	DA	21.68	0.69	6.96	0.00	0.00	0.00	10.45	0.00
INITIAL	9	DA	21.68	0.70	6.78	0.00	0.00	0.00	4.50	0.00
INITIAL	10	DA	21.68	0.70	6.78	0.00	0.00	0.00	4.50	0.00
INITIAL	11	DA	21.68	0.67	6.76	0.00	0.00	0.00	3.75	0.00
INITIAL	12	DA	21.68	0.67	6.76	0.00	0.00	0.00	3.75	0.00
INITIAL	13	DA	21.68	0.65	6.74	0.00	0.00	0.00	3.00	0.00
INITIAL	14	DA	21.68	0.65	6.74	0.00	0.00	0.00	3.00	0.00

ENDATA11

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

CARD TYPE	RCH NUM	RCH ID	K2 OPT	K2 "A"	K2 "B"	K2 "C"	BKGRND SOD g/m²/d	BOD DECAY per day	BOD SETT m/d	BOD CONV TO SOD	ANAER BOD DECAY per day	BOD2 DECAY per day	BOD2 SETT m/d	BOD2 CONV TO SOD	ANAER BOD2 DECAY per day
COEF-1	1	DA	15 LOUISIANA	0.000	0.000	0.000	3.670	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	DA	15 LOUISIANA	0.000	0.000	0.000	3.450	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	DA	15 LOUISIANA	0.000	0.000	0.000	0.240	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	DA	15 LOUISIANA	0.000	0.000	0.000	0.230	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	DA	15 LOUISIANA	0.000	0.000	0.000	0.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	DA	15 LOUISIANA	0.000	0.000	0.000	1.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	DA	15 LOUISIANA	0.000	0.000	0.000	1.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	11	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	DA	15 LOUISIANA	0.000	0.000	0.000	0.200	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ENDATA12

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

CARD TYPE	REACH	ID	ORG-N DECA	ORG-N SETT	ORGN CONV TO NH3 SRCE	NH3 DECA	NH3 SRCE	PHOS SRCE	DENIT RATE

ENDATA13

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

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

ENDATA14

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

CARD TYPE	REACH	ID	COLIFORM DIE-OFF	NCM DECAY	NCM SETT	NCM CONV TO SOD
COEF-4	1	DA	0.000	0.090	0.000	0.000
COEF-4	2	DA	0.000	0.090	0.000	0.000
COEF-4	3	DA	0.000	0.090	0.000	0.000
COEF-4	4	DA	0.000	0.090	0.000	0.000
COEF-4	5	DA	0.000	0.090	0.000	0.000
COEF-4	6	DA	0.000	0.090	0.000	0.000
COEF-4	7	DA	0.000	0.090	0.000	0.000
COEF-4	8	DA	0.000	0.090	0.000	0.000
COEF-4	9	DA	0.000	0.090	0.000	0.000
COEF-4	10	DA	0.000	0.090	0.000	0.000
COEF-4	11	DA	0.000	0.090	0.000	0.000
COEF-4	12	DA	0.000	0.090	0.000	0.000
COEF-4	13	DA	0.000	0.090	0.000	0.000
COEF-4	14	DA	0.000	0.090	0.000	0.000

ENDATA15

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

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

ENDATA16

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

CARD TYPE      REACH  ID          DO       BOD     ORG-N     NH3-N     NO3-N     BOD#2

ENDATA17

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

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

ENDATA18

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

CARD TYPE      REACH  ID       BOD#1     ORG-N      COLI       NCM        DO     BOD#2

NONPOINT         1   DA      848.00      0.00      0.00    424.00      0.00      0.00
NONPOINT         2   DA     1608.00      0.00      0.00    804.00      0.00      0.00
NONPOINT         3   DA     5045.00      0.00      0.00   2523.00      0.00      0.00
NONPOINT         4   DA     1264.00      0.00      0.00    632.00      0.00      0.00
NONPOINT         5   DA      750.00      0.00      0.00      5.00      0.00      0.00
NONPOINT         6   DA      500.00      0.00      0.00      6.00      0.00      0.00
NONPOINT         7   DA        4.00      0.00      0.00      4.00      0.00      0.00
NONPOINT         8   DA        3.00      0.00      0.00      3.00      0.00      0.00
NONPOINT         9   DA        2.00      0.00      0.00      2.00      0.00      0.00
NONPOINT        10   DA       15.00      0.00      0.00    741.00      0.00      0.00
NONPOINT        11   DA     1102.00      0.00      0.00    551.00      0.00      0.00
NONPOINT        12   DA      889.00      0.00      0.00    404.00      0.00      0.00
NONPOINT        13   DA      960.00      0.00      0.00    400.00      0.00      0.00
NONPOINT        14   DA      332.00      0.00      0.00    128.00      0.00      0.00
ENDATA19

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

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

HDWTR-1          1                             0  26.80000  946.328   21.68     0.00   369.000  1405.000
ENDATA20

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

CARD TYPE     ELEMENT   NAME                        DO     BOD#1     ORG-N     NH3-N     NO3-N     BOD#2
                                                   mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-1          1                                6.28      4.56      0.00      0.00      0.00      0.00
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
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CARD TYPE     ELEMENT   NAME                          PHOS     CHL A      COLI       NCM
                                                      mg/L      mg/L      mg/L      mg/L

HDWTR-1           1                                   0.00      0.00      0.00      0.86
ENDATA22

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

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

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

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

WSTLD-1      112      10.70  B. Gauche DS          -6.16400 -217.65536 -140.695    0.00     0.00     0.000     0.000
WSTLD-1      163       5.60  B. Gauche US           6.16400  217.65536  140.695   27.88     0.71   346.000  1341.000
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                                      % BOD                            %
CARD TYPE     ELEMENT   NAME                          DO       BOD      RMVL     ORG-N     NH3-N    NITRIF     NO3-N     BOD#2
                                                     mg/L      mg/L                mg/L      mg/L                mg/L      mg/L

WSTLD-1         112     B. Gauche DS                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WSTLD-1         163     B. Gauche US                6.25      6.50      0.00      0.00      0.00      0.00      0.00      0.00
ENDATA25

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

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

WSTLD-1         112     B. Gauche DS                0.00      0.00      0.00      0.00
WSTLD-1         163     B. Gauche US                0.00      0.00      0.00      1.32
ENDATA26

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

CARD TYPE    CONSTITUENT                      CONCENTRATION

LOWER BC     TEMPERATURE                        =     21.680     deg C
LOWER BC     SALINITY                           =      0.640     ppt
LOWER BC     CONSERVATIVE MATERIAL I            =    311.000     mg/L
LOWER BC     CONSERVATIVE MATERIAL II           =   1210.500     umhos
LOWER BC     DISSOLVED OXYGEN                   =      7.000     mg/L
LOWER BC     BIOCHEMICAL OXYGEN DEMAND          =      5.590     mg/L
LOWER BC     CHLOROPHYLL A                      =      3.000     µg/L
LOWER BC     NONCONSERVATIVE MATERIAL           =      1.420     mg/L
ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$
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CARD TYPE     ELEMENT   NAME                  EQN      "A"       "B"       "H"

ENDATA28

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

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

ENDATA29

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


NUMBER OF PLOTS =  3
NUMBER OF REACHES IN PLOT 1 =  14
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  2  3  4  5  6  7
NUMBER OF REACHES IN PLOT 2 =   7
PLOT RCH  8  9 10 11 12 13 14
ENDATA30

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


OVERLAY 1 BDA_sens.OVL                    :BAYOU DES ALLEMANDS REACHES 1-14
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   1 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED
     .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
     .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12
     .....GRAPHICS DATA FOR PLOT 3 WRITTEN TO UNIT 13


CONDENSED CAPSULE SUMMARY FOR
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DIST km	FLOW m³/s	TEMP deg C	SALN ppt	DO mg/L	EBOD1 mg/L	EBOD2 mg/L	ORGN mg/L	NH3 µg/L	CHLA 1/da	REAER RATE 1/da	BOD1 DECA 1/da	BOD1 SETT 1/da	BOD2 DECA 1/da	BOD2 SETT 1/da	NH3 DECA 1/da	SOD g/m²/d
HDWTR	26.80000	21.68	0.00	6.28	4.56	0.00	0.00	0.00	0.00							
21.70	26.80000	21.68	0.66	6.22	4.57	0.00	0.00	0.00	8.56	0.51	0.05	0.00	0.00	0.00	0.00	4.08
21.60	26.80000	21.68	0.66	6.21	4.57	0.00	0.00	0.00	8.43	0.51	0.05	0.00	0.00	0.00	0.00	4.08
21.50	26.80000	21.68	0.66	6.20	4.57	0.00	0.00	0.00	8.29	0.51	0.05	0.00	0.00	0.00	0.00	4.08
21.40	26.80000	21.68	0.66	6.19	4.58	0.00	0.00	0.00	8.15	0.51	0.05	0.00	0.00	0.00	0.00	4.08
21.30	26.80000	21.68	0.66	6.17	4.58	0.00	0.00	0.00	8.02	0.51	0.05	0.00	0.00	0.00	0.00	4.08
21.20	26.80000	21.68	0.66	6.16	4.58	0.00	0.00	0.00	7.88	0.51	0.05	0.00	0.00	0.00	0.00	4.08
21.10	26.80000	21.68	0.66	6.15	4.58	0.00	0.00	0.00	7.74	0.51	0.05	0.00	0.00	0.00	0.00	4.08
21.00	26.80000	21.68	0.66	6.13	4.58	0.00	0.00	0.00	7.61	0.51	0.05	0.00	0.00	0.00	0.00	4.08

20.90	26.80000	21.68	0.66	6.12	4.59	0.00	0.00	0.00	7.47	0.51	0.05	0.00	0.00	0.00	0.00	4.08
20.80	26.80000	21.68	0.66	6.11	4.59	0.00	0.00	0.00	7.33	0.51	0.05	0.00	0.00	0.00	0.00	4.08
20.70	26.80000	21.68	0.66	6.10	4.59	0.00	0.00	0.00	7.20	0.51	0.05	0.00	0.00	0.00	0.00	4.08
20.60	26.80000	21.68	0.66	6.08	4.59	0.00	0.00	0.00	7.06	0.51	0.05	0.00	0.00	0.00	0.00	4.08
20.50	26.80000	21.68	0.66	6.07	4.59	0.00	0.00	0.00	6.92	0.51	0.05	0.00	0.00	0.00	0.00	4.08
20.40	26.80000	21.68	0.66	6.06	4.60	0.00	0.00	0.00	6.79	0.51	0.05	0.00	0.00	0.00	0.00	4.08
20.30	26.80000	21.68	0.66	6.04	4.60	0.00	0.00	0.00	6.65	0.51	0.05	0.00	0.00	0.00	0.00	4.08
20.20	26.80000	21.68	0.66	6.03	4.60	0.00	0.00	0.00	6.51	0.51	0.05	0.00	0.00	0.00	0.00	4.08
20.10	26.80000	21.68	0.66	6.02	4.60	0.00	0.00	0.00	6.38	0.51	0.05	0.00	0.00	0.00	0.00	4.08
20.00	26.80000	21.68	0.66	6.00	4.61	0.00	0.00	0.00	6.24	0.51	0.05	0.00	0.00	0.00	0.00	4.08
19.90	26.80000	21.68	0.66	5.99	4.61	0.00	0.00	0.00	6.10	0.51	0.05	0.00	0.00	0.00	0.00	4.08
19.80	26.80000	21.68	0.66	5.98	4.61	0.00	0.00	0.00	5.97	0.51	0.05	0.00	0.00	0.00	0.00	4.08
19.70	26.80000	21.68	0.66	5.97	4.61	0.00	0.00	0.00	5.83	0.51	0.05	0.00	0.00	0.00	0.00	4.08
19.60	26.80000	21.68	0.66	5.95	4.62	0.00	0.00	0.00	5.69	0.51	0.05	0.00	0.00	0.00	0.00	4.08
19.50	26.80000	21.68	0.66	5.94	4.62	0.00	0.00	0.00	5.56	0.51	0.05	0.00	0.00	0.00	0.00	4.08
19.40	26.80000	21.68	0.66	5.93	4.62	0.00	0.00	0.00	5.42	0.51	0.05	0.00	0.00	0.00	0.00	4.08
19.30	26.80000	21.68	0.66	5.92	4.63	0.00	0.00	0.00	5.28	0.51	0.05	0.00	0.00	0.00	0.00	4.08
19.20	26.80000	21.68	0.66	5.90	4.63	0.00	0.00	0.00	5.15	0.51	0.05	0.00	0.00	0.00	0.00	4.08
19.10	26.80000	21.68	0.66	5.89	4.64	0.00	0.00	0.00	5.01	0.51	0.05	0.00	0.00	0.00	0.00	4.08
19.00	26.80000	21.68	0.66	5.88	4.64	0.00	0.00	0.00	4.87	0.51	0.05	0.00	0.00	0.00	0.00	4.08
18.90	26.80000	21.68	0.66	5.87	4.65	0.00	0.00	0.00	4.74	0.51	0.05	0.00	0.00	0.00	0.00	4.08
18.80	26.80000	21.68	0.66	5.86	4.66	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	4.08
18.70	26.80000	21.68	0.66	5.86	4.67	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
18.60	26.80000	21.68	0.66	5.85	4.68	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
18.50	26.80000	21.68	0.66	5.84	4.70	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
18.40	26.80000	21.68	0.66	5.83	4.71	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
18.30	26.80000	21.68	0.66	5.83	4.72	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
18.20	26.80000	21.68	0.66	5.82	4.74	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
18.10	26.80000	21.68	0.66	5.81	4.75	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
18.00	26.80000	21.68	0.66	5.80	4.76	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
17.90	26.80000	21.68	0.66	5.80	4.77	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
17.80	26.80000	21.68	0.66	5.79	4.79	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
17.70	26.80000	21.68	0.66	5.78	4.80	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
17.60	26.80000	21.68	0.66	5.77	4.81	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
17.50	26.80000	21.68	0.66	5.77	4.83	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
17.40	26.80000	21.68	0.66	5.76	4.84	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
17.30	26.80000	21.68	0.66	5.75	4.85	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
17.20	26.80000	21.68	0.67	5.75	4.87	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
17.10	26.80000	21.68	0.67	5.74	4.88	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
17.00	26.80000	21.68	0.67	5.74	4.89	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
16.90	26.80000	21.68	0.67	5.73	4.91	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
16.80	26.80000	21.68	0.67	5.72	4.92	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
16.70	26.80000	21.68	0.67	5.72	4.94	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
16.60	26.80000	21.68	0.67	5.72	4.96	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
16.50	26.80000	21.68	0.67	5.71	4.98	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
16.40	26.80000	21.68	0.67	5.71	5.00	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
16.30	26.80000	21.68	0.67	5.71	5.03	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
16.20	26.80000	21.68	0.67	5.71	5.06	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
16.10	26.80000	21.68	0.67	5.71	5.10	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
16.00	26.80000	21.68	0.67	5.72	5.14	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
15.90	26.80000	21.68	0.67	5.73	5.20	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
15.80	26.80000	21.68	0.67	5.75	5.27	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
15.70	26.80000	21.68	0.67	5.78	5.36	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
15.60	26.80000	21.68	0.67	5.82	5.48	0.00	0.00	0.00	4.60	0.51	0.05	0.00	0.00	0.00	0.00	3.84
15.50	26.80000	21.68	0.67	5.88	5.61	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
15.40	26.80000	21.68	0.67	5.92	5.73	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27

15.30	26.80000	21.68	0.67	5.96	5.84	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
15.20	26.80000	21.68	0.67	6.00	5.96	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
15.10	26.80000	21.68	0.67	6.04	6.07	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
15.00	26.80000	21.68	0.67	6.08	6.19	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
14.90	26.80000	21.68	0.67	6.12	6.30	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
14.80	26.80000	21.68	0.67	6.16	6.40	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
14.70	26.80000	21.68	0.67	6.19	6.51	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
14.60	26.80000	21.68	0.67	6.22	6.61	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
14.50	26.80000	21.68	0.67	6.26	6.70	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
14.40	26.80000	21.68	0.67	6.28	6.79	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
14.30	26.80000	21.68	0.67	6.31	6.88	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
14.20	26.80000	21.68	0.67	6.34	6.95	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
14.10	26.80000	21.68	0.67	6.36	7.01	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
14.00	26.80000	21.68	0.67	6.38	7.06	0.00	0.00	0.00	4.60	0.50	0.05	0.00	0.00	0.00	0.00	0.27
13.90	26.80000	21.68	0.67	6.40	7.09	0.00	0.00	0.00	5.19	0.52	0.05	0.00	0.00	0.00	0.00	0.26
13.80	26.80000	21.68	0.67	6.42	7.13	0.00	0.00	0.00	5.78	0.52	0.05	0.00	0.00	0.00	0.00	0.26
13.70	26.80000	21.68	0.67	6.45	7.17	0.00	0.00	0.00	6.37	0.52	0.05	0.00	0.00	0.00	0.00	0.26
13.60	26.80000	21.68	0.67	6.48	7.22	0.00	0.00	0.00	6.96	0.52	0.05	0.00	0.00	0.00	0.00	0.26
13.50	26.80000	21.68	0.68	6.50	7.25	0.00	0.00	0.00	7.55	0.52	0.05	0.00	0.00	0.00	0.00	0.26
13.40	26.80000	21.68	0.68	6.53	7.29	0.00	0.00	0.00	8.14	0.52	0.05	0.00	0.00	0.00	0.00	0.26
13.30	26.80000	21.68	0.68	6.56	7.33	0.00	0.00	0.00	8.73	0.52	0.05	0.00	0.00	0.00	0.00	0.26
13.20	26.80000	21.68	0.68	6.59	7.36	0.00	0.00	0.00	9.32	0.52	0.05	0.00	0.00	0.00	0.00	0.26
13.10	26.80000	21.68	0.68	6.62	7.38	0.00	0.00	0.00	9.91	0.52	0.05	0.00	0.00	0.00	0.00	0.26
13.00	26.80000	21.68	0.68	6.66	7.40	0.00	0.00	0.00	10.50	0.52	0.05	0.00	0.00	0.00	0.00	0.26
12.90	26.80000	21.68	0.68	6.70	7.41	0.00	0.00	0.00	10.92	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.80	26.80000	21.68	0.68	6.73	7.42	0.00	0.00	0.00	11.34	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.70	26.80000	21.68	0.68	6.76	7.43	0.00	0.00	0.00	11.76	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.60	26.80000	21.68	0.68	6.79	7.44	0.00	0.00	0.00	12.19	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.50	26.80000	21.68	0.68	6.83	7.45	0.00	0.00	0.00	12.61	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.40	26.80000	21.68	0.68	6.86	7.45	0.00	0.00	0.00	13.03	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.30	26.80000	21.68	0.68	6.90	7.46	0.00	0.00	0.00	13.45	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.20	26.80000	21.68	0.68	6.93	7.47	0.00	0.00	0.00	13.87	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.10	26.80000	21.68	0.68	6.97	7.47	0.00	0.00	0.00	14.29	0.49	0.05	0.00	0.00	0.00	0.00	0.22
12.00	26.80000	21.68	0.68	7.00	7.48	0.00	0.00	0.00	14.71	0.49	0.05	0.00	0.00	0.00	0.00	0.22
11.90	26.80000	21.68	0.68	7.04	7.48	0.00	0.00	0.00	15.14	0.49	0.05	0.00	0.00	0.00	0.00	0.22
11.80	26.80000	21.68	0.68	7.08	7.49	0.00	0.00	0.00	15.56	0.49	0.05	0.00	0.00	0.00	0.00	0.22
11.70	26.80000	21.68	0.68	7.12	7.49	0.00	0.00	0.00	15.98	0.49	0.05	0.00	0.00	0.00	0.00	0.22
11.60	26.80000	21.68	0.68	7.16	7.49	0.00	0.00	0.00	16.40	0.49	0.05	0.00	0.00	0.00	0.00	0.22
11.50	26.80000	21.68	0.68	7.20	7.49	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
11.40	26.80000	21.68	0.68	7.24	7.48	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
11.30	26.80000	21.68	0.68	7.27	7.48	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
11.20	26.80000	21.68	0.68	7.31	7.48	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
11.10	26.80000	21.68	0.68	7.34	7.47	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
11.00	26.80000	21.68	0.68	7.38	7.47	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.90	26.80000	21.68	0.68	7.41	7.46	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.80	26.80000	21.68	0.68	7.44	7.46	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.70	26.80000	21.68	0.68	7.47	7.46	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.60	20.63600	21.68	0.68	7.50	7.45	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.50	20.63600	21.68	0.68	7.53	7.45	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.40	20.63600	21.68	0.68	7.56	7.44	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.30	20.63600	21.68	0.68	7.59	7.43	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.20	20.63600	21.68	0.68	7.61	7.43	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.10	20.63600	21.68	0.68	7.62	7.42	0.00	0.00	0.00	16.40	0.48	0.05	0.00	0.00	0.00	0.00	0.22
10.00	20.63600	21.68	0.68	7.63	7.41	0.00	0.00	0.00	16.05	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.90	20.63600	21.68	0.68	7.65	7.40	0.00	0.00	0.00	15.70	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.80	20.63600	21.68	0.68	7.67	7.38	0.00	0.00	0.00	15.35	0.49	0.05	0.00	0.00	0.00	0.00	0.56

9.70	20.63600	21.68	0.68	7.68	7.37	0.00	0.00	0.00	15.00	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.60	20.63600	21.68	0.68	7.69	7.36	0.00	0.00	0.00	14.65	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.50	20.63600	21.68	0.68	7.71	7.35	0.00	0.00	0.00	14.30	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.40	20.63600	21.68	0.68	7.72	7.33	0.00	0.00	0.00	13.95	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.30	20.63600	21.68	0.68	7.73	7.32	0.00	0.00	0.00	13.60	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.20	20.63600	21.68	0.69	7.74	7.31	0.00	0.00	0.00	13.25	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.10	20.63600	21.68	0.69	7.75	7.30	0.00	0.00	0.00	12.90	0.49	0.05	0.00	0.00	0.00	0.00	0.56
9.00	20.63600	21.68	0.69	7.76	7.29	0.00	0.00	0.00	12.55	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.90	20.63600	21.68	0.69	7.77	7.27	0.00	0.00	0.00	12.20	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.80	20.63600	21.68	0.69	7.77	7.26	0.00	0.00	0.00	11.85	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.70	20.63600	21.68	0.69	7.78	7.25	0.00	0.00	0.00	11.50	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.60	20.63600	21.68	0.69	7.78	7.24	0.00	0.00	0.00	11.15	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.50	20.63600	21.68	0.69	7.78	7.23	0.00	0.00	0.00	10.80	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.40	20.63600	21.68	0.69	7.78	7.22	0.00	0.00	0.00	10.45	0.49	0.05	0.00	0.00	0.00	0.00	0.56
8.30	20.63600	21.68	0.69	7.78	7.22	0.00	0.00	0.00	10.08	0.60	0.05	0.00	0.00	0.00	0.00	1.67
8.20	20.63600	21.68	0.69	7.77	7.21	0.00	0.00	0.00	9.71	0.60	0.05	0.00	0.00	0.00	0.00	1.67
8.10	20.63600	21.68	0.69	7.77	7.20	0.00	0.00	0.00	9.33	0.60	0.05	0.00	0.00	0.00	0.00	1.67
8.00	20.63600	21.68	0.69	7.76	7.19	0.00	0.00	0.00	8.96	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.90	20.63600	21.68	0.69	7.76	7.18	0.00	0.00	0.00	8.59	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.80	20.63600	21.68	0.69	7.75	7.17	0.00	0.00	0.00	8.22	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.70	20.63600	21.68	0.69	7.74	7.16	0.00	0.00	0.00	7.85	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.60	20.63600	21.68	0.69	7.73	7.15	0.00	0.00	0.00	7.47	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.50	20.63600	21.68	0.70	7.73	7.14	0.00	0.00	0.00	7.10	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.40	20.63600	21.68	0.70	7.72	7.13	0.00	0.00	0.00	6.73	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.30	20.63600	21.68	0.70	7.71	7.12	0.00	0.00	0.00	6.36	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.20	20.63600	21.68	0.70	7.70	7.11	0.00	0.00	0.00	5.99	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.10	20.63600	21.68	0.70	7.69	7.10	0.00	0.00	0.00	5.62	0.60	0.05	0.00	0.00	0.00	0.00	1.67
7.00	20.63600	21.68	0.70	7.68	7.09	0.00	0.00	0.00	5.24	0.60	0.05	0.00	0.00	0.00	0.00	1.67
6.90	20.63600	21.68	0.70	7.67	7.07	0.00	0.00	0.00	4.87	0.60	0.05	0.00	0.00	0.00	0.00	1.67
6.80	20.63600	21.68	0.70	7.65	7.05	0.00	0.00	0.00	4.50	0.60	0.05	0.00	0.00	0.00	0.00	1.67
6.70	20.63600	21.68	0.70	7.64	7.03	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.60	20.63600	21.68	0.70	7.62	7.02	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.50	20.63600	21.68	0.70	7.61	6.99	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.40	20.63600	21.68	0.70	7.60	6.97	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.30	20.63600	21.68	0.70	7.59	6.94	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.20	20.63600	21.68	0.70	7.58	6.90	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.10	20.63600	21.68	0.70	7.57	6.86	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
6.00	20.63600	21.68	0.70	7.57	6.80	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
5.90	20.63600	21.68	0.70	7.56	6.73	0.00	0.00	0.00	4.50	0.56	0.05	0.00	0.00	0.00	0.00	1.67
5.80	20.63600	21.68	0.70	7.57	6.69	0.00	0.00	0.00	4.45	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.70	20.63600	21.68	0.70	7.56	6.67	0.00	0.00	0.00	4.39	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.60	20.63600	21.68	0.69	7.55	6.64	0.00	0.00	0.00	4.34	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.50	26.80000	21.68	0.69	7.54	6.62	0.00	0.00	0.00	4.29	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.40	26.80000	21.68	0.69	7.56	6.60	0.00	0.00	0.00	4.23	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.30	26.80000	21.68	0.69	7.58	6.59	0.00	0.00	0.00	4.18	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.20	26.80000	21.68	0.69	7.60	6.58	0.00	0.00	0.00	4.12	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.10	26.80000	21.68	0.68	7.62	6.57	0.00	0.00	0.00	4.07	0.61	0.05	0.00	0.00	0.00	0.00	0.22
5.00	26.80000	21.68	0.68	7.64	6.56	0.00	0.00	0.00	4.02	0.61	0.05	0.00	0.00	0.00	0.00	0.22
4.90	26.80000	21.68	0.68	7.66	6.55	0.00	0.00	0.00	3.96	0.61	0.05	0.00	0.00	0.00	0.00	0.22
4.80	26.80000	21.68	0.68	7.67	6.55	0.00	0.00	0.00	3.91	0.61	0.05	0.00	0.00	0.00	0.00	0.22
4.70	26.80000	21.68	0.67	7.69	6.55	0.00	0.00	0.00	3.86	0.61	0.05	0.00	0.00	0.00	0.00	0.22
4.60	26.80000	21.68	0.67	7.70	6.56	0.00	0.00	0.00	3.80	0.61	0.05	0.00	0.00	0.00	0.00	0.22
4.50	26.80000	21.68	0.67	7.72	6.57	0.00	0.00	0.00	3.75	0.61	0.05	0.00	0.00	0.00	0.00	0.22
4.40	26.80000	21.68	0.67	7.73	6.59	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
4.30	26.80000	21.68	0.67	7.75	6.61	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
4.20	26.80000	21.68	0.67	7.76	6.62	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22

4.10	26.80000	21.68	0.67	7.77	6.64	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
4.00	26.80000	21.68	0.67	7.78	6.66	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
3.90	26.80000	21.68	0.67	7.79	6.67	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
3.80	26.80000	21.68	0.67	7.80	6.69	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
3.70	26.80000	21.68	0.67	7.81	6.70	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
3.60	26.80000	21.68	0.67	7.82	6.71	0.00	0.00	0.00	3.75	0.69	0.05	0.00	0.00	0.00	0.00	0.22
3.50	26.80000	21.68	0.67	7.82	6.73	0.00	0.00	0.00	3.66	0.67	0.05	0.00	0.00	0.00	0.00	0.22
3.40	26.80000	21.68	0.67	7.83	6.74	0.00	0.00	0.00	3.56	0.67	0.05	0.00	0.00	0.00	0.00	0.22
3.30	26.80000	21.68	0.66	7.83	6.75	0.00	0.00	0.00	3.47	0.67	0.05	0.00	0.00	0.00	0.00	0.22
3.20	26.80000	21.68	0.66	7.84	6.77	0.00	0.00	0.00	3.38	0.67	0.05	0.00	0.00	0.00	0.00	0.22
3.10	26.80000	21.68	0.66	7.84	6.78	0.00	0.00	0.00	3.28	0.67	0.05	0.00	0.00	0.00	0.00	0.22
3.00	26.80000	21.68	0.65	7.85	6.79	0.00	0.00	0.00	3.19	0.67	0.05	0.00	0.00	0.00	0.00	0.22
2.90	26.80000	21.68	0.65	7.85	6.80	0.00	0.00	0.00	3.09	0.67	0.05	0.00	0.00	0.00	0.00	0.22
2.80	26.80000	21.68	0.65	7.85	6.81	0.00	0.00	0.00	3.00	0.67	0.05	0.00	0.00	0.00	0.00	0.22
2.70	26.80000	21.68	0.65	7.85	6.81	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.60	26.80000	21.68	0.65	7.86	6.82	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.50	26.80000	21.68	0.65	7.86	6.84	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.40	26.80000	21.68	0.65	7.86	6.85	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.30	26.80000	21.68	0.65	7.86	6.86	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.20	26.80000	21.68	0.65	7.87	6.87	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.10	26.80000	21.68	0.65	7.87	6.88	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
2.00	26.80000	21.68	0.65	7.87	6.89	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.90	26.80000	21.68	0.65	7.87	6.90	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.80	26.80000	21.68	0.65	7.87	6.91	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.70	26.80000	21.68	0.65	7.88	6.92	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.60	26.80000	21.68	0.65	7.88	6.92	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.50	26.80000	21.68	0.65	7.88	6.93	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.40	26.80000	21.68	0.65	7.88	6.94	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.30	26.80000	21.68	0.65	7.88	6.94	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.20	26.80000	21.68	0.65	7.88	6.95	0.00	0.00	0.00	3.00	0.65	0.05	0.00	0.00	0.00	0.00	0.22
1.10	26.80000	21.68	0.65	7.89	6.95	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
1.00	26.80000	21.68	0.65	7.89	6.95	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.90	26.80000	21.68	0.65	7.89	6.96	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.80	26.80000	21.68	0.65	7.89	6.95	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.70	26.80000	21.68	0.65	7.89	6.95	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.60	26.80000	21.68	0.64	7.88	6.94	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.50	26.80000	21.68	0.64	7.87	6.91	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.40	26.80000	21.68	0.64	7.84	6.86	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.30	26.80000	21.68	0.64	7.78	6.78	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.20	26.80000	21.68	0.64	7.69	6.63	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.10	26.80000	21.68	0.64	7.53	6.38	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22
0.00	26.80000	21.68	0.64	7.24	5.95	0.00	0.00	0.00	3.00	0.91	0.05	0.00	0.00	0.00	0.00	0.22

FINAL REPORT
REACH NO. 1 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
1	HDWTR	26.80000	21.68	0.00	369.00	1405.00	6.28	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
1	21.80	21.70	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
2	21.70	21.60	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
3	21.60	21.50	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
4	21.50	21.40	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
5	21.40	21.30	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
6	21.30	21.20	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
7	21.20	21.10	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
8	21.10	21.00	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
9	21.00	20.90	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
10	20.90	20.80	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
11	20.80	20.70	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
12	20.70	20.60	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
13	20.60	20.50	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
14	20.50	20.40	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
15	20.40	20.30	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
16	20.30	20.20	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
17	20.20	20.10	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
18	20.10	20.00	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
19	20.00	19.90	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
20	19.90	19.80	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
21	19.80	19.70	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
22	19.70	19.60	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
23	19.60	19.50	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
24	19.50	19.40	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
25	19.40	19.30	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
26	19.30	19.20	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
27	19.20	19.10	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
28	19.10	19.00	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
29	19.00	18.90	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
30	18.90	18.80	26.80000	0.0	0.02823	0.04	2.35	404.00	94940.00	40400.00	949.40	0.00	0.000	10.000	0.028
TOT						1.23			2848200.00	1212000.00					
AVG					0.02823		2.35	404.00			949.40				
CUM						1.23									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	21.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.10	0.00
2	21.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.10	0.00
3	21.500	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.10	0.00
4	21.400	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.10	0.00
5	21.300	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.10	0.00
6	21.200	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.10	0.00
7	21.100	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.10	0.00
8	21.000	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.10	0.00
9	20.900	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.10	0.00
10	20.800	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.10	0.00
11	20.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.10	0.00
12	20.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.10	0.00
13	20.500	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.10	0.00
14	20.400	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.10	0.00
15	20.300	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.10	0.00
16	20.200	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.10	0.00
17	20.100	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.10	0.00
18	20.000	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.10	0.00
19	19.900	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.10	0.00
20	19.800	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.10	0.00
21	19.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.10	0.00
22	19.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.10	0.00
23	19.500	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.10	0.00
24	19.400	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.10	0.00
25	19.300	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.10	0.00
26	19.200	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.10	0.00
27	19.100	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.10	0.00
28	19.000	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.10	0.00
29	18.900	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.10	0.00
30	18.800	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	4.08	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	3.67			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
1	21.700	21.68	0.66	369.00	1405.00	6.22	4.57	0.00	4.57	0.00	0.00	0.00	0.00	0.00	0.00	8.56	0.00	0.	0.87
2	21.600	21.68	0.66	369.00	1405.00	6.21	4.57	0.00	4.57	0.00	0.00	0.00	0.00	0.00	0.00	8.43	0.00	0.	0.87
3	21.500	21.68	0.66	369.00	1405.00	6.20	4.57	0.00	4.57	0.00	0.00	0.00	0.00	0.00	0.00	8.29	0.00	0.	0.88
4	21.400	21.68	0.66	369.00	1405.00	6.19	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	8.15	0.00	0.	0.88
5	21.300	21.68	0.66	369.00	1405.00	6.17	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	8.02	0.00	0.	0.88
6	21.200	21.68	0.66	369.00	1405.00	6.16	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	7.88	0.00	0.	0.88
7	21.100	21.68	0.66	369.00	1405.00	6.15	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	7.74	0.00	0.	0.89
8	21.000	21.68	0.66	369.00	1405.00	6.13	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	7.61	0.00	0.	0.89
9	20.900	21.68	0.66	369.00	1405.00	6.12	4.59	0.00	4.59	0.00	0.00	0.00	0.00	0.00	0.00	7.47	0.00	0.	0.89

10	20.800	21.68	0.66	369.00	1405.00	6.11	4.59	0.00	4.59	0.00	0.00	0.00	0.00	0.00	0.00	7.33	0.00	0.	0.89
11	20.700	21.68	0.66	369.00	1405.00	6.10	4.59	0.00	4.59	0.00	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.	0.90
12	20.600	21.68	0.66	369.00	1405.00	6.08	4.59	0.00	4.59	0.00	0.00	0.00	0.00	0.00	0.00	7.06	0.00	0.	0.90
13	20.500	21.68	0.66	369.00	1405.00	6.07	4.59	0.00	4.59	0.00	0.00	0.00	0.00	0.00	0.00	6.92	0.00	0.	0.90
14	20.400	21.68	0.66	369.00	1405.00	6.06	4.60	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	6.79	0.00	0.	0.90
15	20.300	21.68	0.66	369.00	1405.00	6.04	4.60	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	6.65	0.00	0.	0.91
16	20.200	21.68	0.66	369.00	1405.00	6.03	4.60	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	6.51	0.00	0.	0.91
17	20.100	21.68	0.66	369.00	1405.00	6.02	4.60	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	6.38	0.00	0.	0.91
18	20.000	21.68	0.66	369.00	1405.00	6.00	4.61	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00	6.24	0.00	0.	0.91
19	19.900	21.68	0.66	369.00	1405.00	5.99	4.61	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00	6.10	0.00	0.	0.91
20	19.800	21.68	0.66	369.00	1405.00	5.98	4.61	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00	5.97	0.00	0.	0.92
21	19.700	21.68	0.66	369.00	1405.00	5.97	4.61	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00	5.83	0.00	0.	0.92
22	19.600	21.68	0.66	369.00	1405.00	5.95	4.62	0.00	4.62	0.00	0.00	0.00	0.00	0.00	0.00	5.69	0.00	0.	0.92
23	19.500	21.68	0.66	369.00	1405.00	5.94	4.62	0.00	4.62	0.00	0.00	0.00	0.00	0.00	0.00	5.56	0.00	0.	0.93
24	19.400	21.68	0.66	369.00	1405.00	5.93	4.62	0.00	4.62	0.00	0.00	0.00	0.00	0.00	0.00	5.42	0.00	0.	0.93
25	19.300	21.68	0.66	369.00	1405.00	5.92	4.63	0.00	4.63	0.00	0.00	0.00	0.00	0.00	0.00	5.28	0.00	0.	0.93
26	19.200	21.68	0.66	369.00	1405.00	5.90	4.63	0.00	4.63	0.00	0.00	0.00	0.00	0.00	0.00	5.15	0.00	0.	0.94
27	19.100	21.68	0.66	369.00	1405.00	5.89	4.64	0.00	4.64	0.00	0.00	0.00	0.00	0.00	0.00	5.01	0.00	0.	0.94
28	19.000	21.68	0.66	369.00	1405.00	5.88	4.64	0.00	4.64	0.00	0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.	0.94
29	18.900	21.68	0.66	369.00	1405.00	5.87	4.65	0.00	4.65	0.00	0.00	0.00	0.00	0.00	0.00	4.74	0.00	0.	0.95
30	18.800	21.68	0.66	369.00	1405.00	5.86	4.66	0.00	4.66	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.95

FINAL REPORT
REACH NO. 2 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
31	UPR RCH	26.80000	21.68	0.66	369.00	1405.00	5.86	4.66	0.00	4.66	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.95

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
31	18.80	18.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
32	18.70	18.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
33	18.60	18.50	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
34	18.50	18.40	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
35	18.40	18.30	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
36	18.30	18.20	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
37	18.20	18.10	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
38	18.10	18.00	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
39	18.00	17.90	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
40	17.90	17.80	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
41	17.80	17.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
42	17.70	17.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
43	17.60	17.50	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
44	17.50	17.40	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
45	17.40	17.30	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033

46	17.30	17.20	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
47	17.20	17.10	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
48	17.10	17.00	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
49	17.00	16.90	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
50	16.90	16.80	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
51	16.80	16.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
52	16.70	16.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
53	16.60	16.50	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
54	16.50	16.40	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
55	16.40	16.30	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
56	16.30	16.20	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
57	16.20	16.10	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
58	16.10	16.00	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
59	16.00	15.90	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
60	15.90	15.80	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
61	15.80	15.70	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
62	15.70	15.60	26.80000	0.0	0.03335	0.03	2.35	342.00	80369.99	34200.00	803.70	0.00	0.000	10.000	0.033
TOT						1.11			2571839.75	1094400.00					
AVG					0.03335		2.35	342.00			803.70				
CUM						2.34									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
31	18.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
32	18.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
33	18.500	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
34	18.400	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
35	18.300	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
36	18.200	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
37	18.100	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
38	18.000	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
39	17.900	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
40	17.800	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
41	17.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
42	17.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
43	17.500	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
44	17.400	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
45	17.300	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
46	17.200	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
47	17.100	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
48	17.000	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
49	16.900	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
50	16.800	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
51	16.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
52	16.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
53	16.500	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
54	16.400	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
55	16.300	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
56	16.200	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
57	16.100	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00

58	16.000	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
59	15.900	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
60	15.800	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
61	15.700	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
62	15.600	8.76	0.51	0.05	0.00	0.00	0.00	0.00	0.00	3.84	3.84	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	3.45			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
31	18.700	21.68	0.66	369.00	1405.00	5.86	4.67	0.00	4.67	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.96
32	18.600	21.68	0.66	369.00	1405.00	5.85	4.68	0.00	4.68	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.97
33	18.500	21.68	0.66	369.00	1405.00	5.84	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.97
34	18.400	21.68	0.66	369.00	1405.00	5.83	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.98
35	18.300	21.68	0.66	369.00	1405.00	5.83	4.72	0.00	4.72	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	0.99
36	18.200	21.68	0.66	369.00	1405.00	5.82	4.74	0.00	4.74	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.00
37	18.100	21.68	0.66	369.00	1405.00	5.81	4.75	0.00	4.75	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.00
38	18.000	21.68	0.66	369.00	1405.00	5.80	4.76	0.00	4.76	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.01
39	17.900	21.68	0.66	369.00	1405.00	5.80	4.77	0.00	4.77	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.02
40	17.800	21.68	0.66	369.00	1405.00	5.79	4.79	0.00	4.79	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.03
41	17.700	21.68	0.66	369.00	1405.00	5.78	4.80	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.03
42	17.600	21.68	0.66	369.00	1405.00	5.77	4.81	0.00	4.81	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.04
43	17.500	21.68	0.66	369.00	1405.00	5.77	4.83	0.00	4.83	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.05
44	17.400	21.68	0.66	369.00	1405.00	5.76	4.84	0.00	4.84	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.06
45	17.300	21.68	0.66	369.00	1405.00	5.75	4.85	0.00	4.85	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.06
46	17.200	21.68	0.67	369.00	1405.00	5.75	4.87	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.07
47	17.100	21.68	0.67	369.00	1405.00	5.74	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.08
48	17.000	21.68	0.67	369.00	1405.00	5.74	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.09
49	16.900	21.68	0.67	369.00	1405.00	5.73	4.91	0.00	4.91	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.09
50	16.800	21.68	0.67	369.00	1405.00	5.72	4.92	0.00	4.92	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.10
51	16.700	21.68	0.67	369.00	1405.00	5.72	4.94	0.00	4.94	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.11
52	16.600	21.68	0.67	369.00	1405.00	5.72	4.96	0.00	4.96	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.12
53	16.500	21.68	0.67	369.00	1405.00	5.71	4.98	0.00	4.98	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.13
54	16.400	21.68	0.67	369.00	1405.00	5.71	5.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.14
55	16.300	21.68	0.67	369.00	1405.00	5.71	5.03	0.00	5.03	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.16
56	16.200	21.68	0.67	369.00	1405.00	5.71	5.06	0.00	5.06	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.17
57	16.100	21.68	0.67	369.00	1405.00	5.71	5.10	0.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.19
58	16.000	21.68	0.67	369.00	1405.00	5.72	5.14	0.00	5.14	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.21
59	15.900	21.68	0.67	369.00	1405.00	5.73	5.20	0.00	5.20	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.24
60	15.800	21.68	0.67	369.00	1405.00	5.75	5.27	0.00	5.27	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.28
61	15.700	21.68	0.67	369.00	1405.00	5.78	5.36	0.00	5.36	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.32
62	15.600	21.68	0.67	369.00	1405.00	5.82	5.48	0.00	5.48	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.38

FINAL REPORT
REACH NO. 3 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
63	UPR RCH	26.80000	21.68	0.67	369.00	1405.00	5.82	5.48	0.00	5.48	0.00	0.00	0.00	0.00	0.00	4.60	0.00	1.38

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
63	15.60	15.50	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
64	15.50	15.40	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
65	15.40	15.30	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
66	15.30	15.20	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
67	15.20	15.10	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
68	15.10	15.00	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
69	15.00	14.90	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
70	14.90	14.80	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
71	14.80	14.70	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
72	14.70	14.60	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
73	14.60	14.50	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
74	14.50	14.40	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
75	14.40	14.30	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
76	14.30	14.20	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
77	14.20	14.10	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
78	14.10	14.00	26.80000	0.0	0.02527	0.05	2.41	440.00	106040.00	44000.00	1060.40	0.00	0.000	10.000	0.025
TOT						0.73			1696640.00	704000.00					
AVG					0.02527		2.41	440.00			1060.40				
CUM						3.07									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
63	15.500	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
64	15.400	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
65	15.300	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
66	15.200	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
67	15.100	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
68	15.000	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
69	14.900	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
70	14.800	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
71	14.700	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
72	14.600	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00

73	14.500	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
74	14.400	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
75	14.300	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
76	14.200	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
77	14.100	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
78	14.000	8.76	0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.24			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
63	15.500	21.68	0.67	369.00	1405.00	5.88	5.61	0.00	5.61	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.45
64	15.400	21.68	0.67	369.00	1405.00	5.92	5.73	0.00	5.73	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.51
65	15.300	21.68	0.67	369.00	1405.00	5.96	5.84	0.00	5.84	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.57
66	15.200	21.68	0.67	369.00	1405.00	6.00	5.96	0.00	5.96	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.62
67	15.100	21.68	0.67	369.00	1405.00	6.04	6.07	0.00	6.07	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.68
68	15.000	21.68	0.67	369.00	1405.00	6.08	6.19	0.00	6.19	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.73
69	14.900	21.68	0.67	369.00	1405.00	6.12	6.30	0.00	6.30	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.79
70	14.800	21.68	0.67	369.00	1405.00	6.16	6.40	0.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.84
71	14.700	21.68	0.67	369.00	1405.00	6.19	6.51	0.00	6.51	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.89
72	14.600	21.68	0.67	369.00	1405.00	6.22	6.61	0.00	6.61	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.94
73	14.500	21.68	0.67	369.00	1405.00	6.26	6.70	0.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	1.99
74	14.400	21.68	0.67	369.00	1405.00	6.28	6.79	0.00	6.79	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	2.03
75	14.300	21.68	0.67	369.00	1405.00	6.31	6.88	0.00	6.88	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	2.07
76	14.200	21.68	0.67	369.00	1405.00	6.34	6.95	0.00	6.95	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	2.11
77	14.100	21.68	0.67	369.00	1405.00	6.36	7.01	0.00	7.01	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	2.14
78	14.000	21.68	0.67	369.00	1405.00	6.38	7.06	0.00	7.06	0.00	0.00	0.00	0.00	0.00	0.00	4.60	0.00	0.	2.16

FINAL REPORT
REACH NO. 4 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
79	UPR RCH	26.80000	21.68	0.67	369.00	1405.00	6.38	7.06	0.00	7.06	0.00	0.00	0.00	0.00	0.00	4.60	0.00	2.16

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
79	14.00	13.90	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
80	13.90	13.80	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
81	13.80	13.70	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041

82	13.70	13.60	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
83	13.60	13.50	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
84	13.50	13.40	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
85	13.40	13.30	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
86	13.30	13.20	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
87	13.20	13.10	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
88	13.10	13.00	26.80000	0.0	0.04064	0.03	2.47	267.00	65949.00	26700.00	659.49	0.00	0.000	10.000	0.041
TOT						0.28			659490.00	267000.00					
AVG					0.04064		2.47	267.00			659.49				
CUM						3.36									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
79	13.900	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.10	0.00
80	13.800	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.10	0.00
81	13.700	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.10	0.00
82	13.600	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.10	0.00
83	13.500	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.10	0.00
84	13.400	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.10	0.00
85	13.300	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.10	0.00
86	13.200	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.10	0.00
87	13.100	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.10	0.00
88	13.000	8.76	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.50	0.05	0.00	0.00	0.00	0.00	0.00	0.23			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
79	13.900	21.68	0.67	369.00	1405.00	6.40	7.09	0.00	7.09	0.00	0.00	0.00	0.00	0.00	0.00	5.19	0.00	0.	2.18
80	13.800	21.68	0.67	369.00	1405.00	6.42	7.13	0.00	7.13	0.00	0.00	0.00	0.00	0.00	0.00	5.78	0.00	0.	2.20
81	13.700	21.68	0.67	369.00	1405.00	6.45	7.17	0.00	7.17	0.00	0.00	0.00	0.00	0.00	0.00	6.37	0.00	0.	2.22
82	13.600	21.68	0.67	369.00	1405.00	6.48	7.22	0.00	7.22	0.00	0.00	0.00	0.00	0.00	0.00	6.96	0.00	0.	2.23
83	13.500	21.68	0.68	369.00	1405.00	6.50	7.25	0.00	7.25	0.00	0.00	0.00	0.00	0.00	0.00	7.55	0.00	0.	2.25
84	13.400	21.68	0.68	369.00	1405.00	6.53	7.29	0.00	7.29	0.00	0.00	0.00	0.00	0.00	0.00	8.14	0.00	0.	2.27
85	13.300	21.68	0.68	369.00	1405.00	6.56	7.33	0.00	7.33	0.00	0.00	0.00	0.00	0.00	0.00	8.73	0.00	0.	2.28
86	13.200	21.68	0.68	369.00	1405.00	6.59	7.36	0.00	7.36	0.00	0.00	0.00	0.00	0.00	0.00	9.32	0.00	0.	2.29
87	13.100	21.68	0.68	369.00	1405.00	6.62	7.38	0.00	7.38	0.00	0.00	0.00	0.00	0.00	0.00	9.91	0.00	0.	2.29
88	13.000	21.68	0.68	369.00	1405.00	6.66	7.40	0.00	7.40	0.00	0.00	0.00	0.00	0.00	0.00	10.50	0.00	0.	2.29

FINAL REPORT
REACH NO. 5 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
89	UPR RCH	26.80000	21.68	0.68	369.00	1405.00	6.66	7.40	0.00	7.40	0.00	0.00	0.00	0.00	0.00	10.50	0.00	2.29

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
89	13.00	12.90	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
90	12.90	12.80	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
91	12.80	12.70	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
92	12.70	12.60	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
93	12.60	12.50	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
94	12.50	12.40	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
95	12.40	12.30	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
96	12.30	12.20	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
97	12.20	12.10	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
98	12.10	12.00	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
99	12.00	11.90	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
100	11.90	11.80	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
101	11.80	11.70	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
102	11.70	11.60	26.80000	0.0	0.03222	0.04	2.49	334.00	83166.00	33400.00	831.66	0.00	0.000	10.000	0.032
TOT						0.50			1164324.00	467600.00					
AVG					0.03222		2.49	334.00			831.66				
CUM						3.86									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
89	12.900	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.10	0.00
90	12.800	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.10	0.00
91	12.700	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.10	0.00
92	12.600	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.10	0.00
93	12.500	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.10	0.00
94	12.400	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.10	0.00
95	12.300	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.10	0.00
96	12.200	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.10	0.00
97	12.100	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.10	0.00
98	12.000	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.10	0.00
99	11.900	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.10	0.00
100	11.800	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.10	0.00

101	11.700	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.10	0.00
102	11.600	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.47	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
89	12.900	21.68	0.68	369.00	1405.00	6.70	7.41	0.00	7.41	0.00	0.00	0.00	0.00	0.00	0.00	10.92	0.00	0.	2.28
90	12.800	21.68	0.68	369.00	1405.00	6.73	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	11.34	0.00	0.	2.28
91	12.700	21.68	0.68	369.00	1405.00	6.76	7.43	0.00	7.43	0.00	0.00	0.00	0.00	0.00	0.00	11.76	0.00	0.	2.27
92	12.600	21.68	0.68	369.00	1405.00	6.79	7.44	0.00	7.44	0.00	0.00	0.00	0.00	0.00	0.00	12.19	0.00	0.	2.26
93	12.500	21.68	0.68	369.00	1405.00	6.83	7.45	0.00	7.45	0.00	0.00	0.00	0.00	0.00	0.00	12.61	0.00	0.	2.25
94	12.400	21.68	0.68	369.00	1405.00	6.86	7.45	0.00	7.45	0.00	0.00	0.00	0.00	0.00	0.00	13.03	0.00	0.	2.24
95	12.300	21.68	0.68	369.00	1405.00	6.90	7.46	0.00	7.46	0.00	0.00	0.00	0.00	0.00	0.00	13.45	0.00	0.	2.23
96	12.200	21.68	0.68	369.00	1405.00	6.93	7.47	0.00	7.47	0.00	0.00	0.00	0.00	0.00	0.00	13.87	0.00	0.	2.23
97	12.100	21.68	0.68	369.00	1405.00	6.97	7.47	0.00	7.47	0.00	0.00	0.00	0.00	0.00	0.00	14.29	0.00	0.	2.22
98	12.000	21.68	0.68	369.00	1405.00	7.00	7.48	0.00	7.48	0.00	0.00	0.00	0.00	0.00	0.00	14.71	0.00	0.	2.21
99	11.900	21.68	0.68	369.00	1404.99	7.04	7.48	0.00	7.48	0.00	0.00	0.00	0.00	0.00	0.00	15.14	0.00	0.	2.20
100	11.800	21.68	0.68	369.00	1404.99	7.08	7.49	0.00	7.49	0.00	0.00	0.00	0.00	0.00	0.00	15.56	0.00	0.	2.19
101	11.700	21.68	0.68	369.00	1404.99	7.12	7.49	0.00	7.49	0.00	0.00	0.00	0.00	0.00	0.00	15.98	0.00	0.	2.18
102	11.600	21.68	0.68	369.00	1404.99	7.16	7.49	0.00	7.49	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.17

FINAL REPORT LA-QUAL model for Bayou Des Allemands (020301)
REACH NO. 6 Bayou Des Allemands WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
103	UPR RCH	26.80000	21.68	0.68	369.00	1404.99	7.16	7.49	0.00	7.49	0.00	0.00	0.00	0.00	0.00	16.40	0.00	2.17
112	WSTLD	-6.16400	21.68	0.68	369.00	1404.99	7.50	7.45	0.00	7.45	0.00	0.00	0.00	0.00	0.00	16.40	0.00	2.08

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
103	11.60	11.50	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
104	11.50	11.40	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
105	11.40	11.30	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
106	11.30	11.20	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
107	11.20	11.10	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
108	11.10	11.00	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
109	11.00	10.90	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
110	10.90	10.80	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027

111	10.80	10.70	26.80000	0.0	0.02693	0.04	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.027
112	10.70	10.60	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
113	10.60	10.50	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
114	10.50	10.40	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
115	10.40	10.30	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
116	10.30	10.20	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
117	10.20	10.10	20.63600	0.0	0.02074	0.06	2.50	398.00	99500.00	39800.00	995.00	0.00	0.000	10.000	0.021
TOT						0.72			1492500.00	597000.00					
AVG					0.02406		2.50	398.00			995.00				
CUM						4.58									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
103	11.500	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
104	11.400	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
105	11.300	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
106	11.200	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
107	11.100	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
108	11.000	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
109	10.900	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
110	10.800	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
111	10.700	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
112	10.600	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
113	10.500	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
114	10.400	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
115	10.300	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
116	10.200	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
117	10.100	8.76	0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.47	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
103	11.500	21.68	0.68	369.00	1404.99	7.20	7.49	0.00	7.49	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.16
104	11.400	21.68	0.68	369.00	1404.99	7.24	7.48	0.00	7.48	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.15
105	11.300	21.68	0.68	369.00	1404.99	7.27	7.48	0.00	7.48	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.15
106	11.200	21.68	0.68	369.00	1404.99	7.31	7.48	0.00	7.48	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.14
107	11.100	21.68	0.68	369.00	1404.99	7.34	7.47	0.00	7.47	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.13
108	11.000	21.68	0.68	369.00	1404.99	7.38	7.47	0.00	7.47	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.12
109	10.900	21.68	0.68	369.00	1404.99	7.41	7.46	0.00	7.46	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.11
110	10.800	21.68	0.68	369.00	1404.99	7.44	7.46	0.00	7.46	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.10
111	10.700	21.68	0.68	369.00	1404.99	7.47	7.46	0.00	7.46	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.09
112	10.600	21.68	0.68	369.00	1404.99	7.50	7.45	0.00	7.45	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.08
113	10.500	21.68	0.68	369.00	1404.99	7.53	7.45	0.00	7.45	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.08

114	10.400	21.68	0.68	369.00	1404.99	7.56	7.44	0.00	7.44	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.07
115	10.300	21.68	0.68	369.00	1404.99	7.59	7.43	0.00	7.43	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.06
116	10.200	21.68	0.68	369.00	1404.99	7.61	7.43	0.00	7.43	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.05
117	10.100	21.68	0.68	369.00	1404.99	7.62	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	16.40	0.00	0.	2.05

FINAL REPORT
REACH NO. 7 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
118	UPR RCH	20.63600	21.68	0.68	369.00	1404.99	7.62	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	16.40	0.00	2.05

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
118	10.10	10.00	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
119	10.00	9.90	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
120	9.90	9.80	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
121	9.80	9.70	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
122	9.70	9.60	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
123	9.60	9.50	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
124	9.50	9.40	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
125	9.40	9.30	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
126	9.30	9.20	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
127	9.20	9.10	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
128	9.10	9.00	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
129	9.00	8.90	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
130	8.90	8.80	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
131	8.80	8.70	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
132	8.70	8.60	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
133	8.60	8.50	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
134	8.50	8.40	20.63600	0.0	0.03573	0.03	2.50	231.00	57750.00	23100.00	577.50	0.00	0.000	10.000	0.036
TOT						0.55			981750.00	392700.00					
AVG					0.03573		2.50	231.00			577.50				
CUM						5.13									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
118	10.000	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.10	0.00
119	9.900	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.10	0.00
120	9.800	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.10	0.00

121	9.700	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.10	0.00
122	9.600	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.10	0.00
123	9.500	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.10	0.00
124	9.400	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.10	0.00
125	9.300	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.10	0.00
126	9.200	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.10	0.00
127	9.100	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.10	0.00
128	9.000	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.10	0.00
129	8.900	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.10	0.00
130	8.800	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.10	0.00
131	8.700	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.10	0.00
132	8.600	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.10	0.00
133	8.500	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.10	0.00
134	8.400	8.76	0.49	0.05	0.00	0.00	0.00	0.00	0.00	0.56	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.47	0.05	0.00	0.00	0.00	0.00	0.00	0.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
118	10.000	21.68	0.68	369.00	1404.99	7.63	7.41	0.00	7.41	0.00	0.00	0.00	0.00	0.00	0.00	16.05	0.00	0.	2.04
119	9.900	21.68	0.68	369.00	1404.99	7.65	7.40	0.00	7.40	0.00	0.00	0.00	0.00	0.00	0.00	15.70	0.00	0.	2.04
120	9.800	21.68	0.68	369.00	1404.99	7.67	7.38	0.00	7.38	0.00	0.00	0.00	0.00	0.00	0.00	15.35	0.00	0.	2.03
121	9.700	21.68	0.68	369.00	1405.00	7.68	7.37	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.	2.02
122	9.600	21.68	0.68	369.00	1405.00	7.69	7.36	0.00	7.36	0.00	0.00	0.00	0.00	0.00	0.00	14.65	0.00	0.	2.02
123	9.500	21.68	0.68	369.00	1405.00	7.71	7.35	0.00	7.35	0.00	0.00	0.00	0.00	0.00	0.00	14.30	0.00	0.	2.01
124	9.400	21.68	0.68	369.00	1405.00	7.72	7.33	0.00	7.33	0.00	0.00	0.00	0.00	0.00	0.00	13.95	0.00	0.	2.01
125	9.300	21.68	0.68	369.00	1405.00	7.73	7.32	0.00	7.32	0.00	0.00	0.00	0.00	0.00	0.00	13.60	0.00	0.	2.00
126	9.200	21.68	0.69	369.00	1404.99	7.74	7.31	0.00	7.31	0.00	0.00	0.00	0.00	0.00	0.00	13.25	0.00	0.	1.99
127	9.100	21.68	0.69	369.00	1404.99	7.75	7.30	0.00	7.30	0.00	0.00	0.00	0.00	0.00	0.00	12.90	0.00	0.	1.99
128	9.000	21.68	0.69	369.00	1404.99	7.76	7.29	0.00	7.29	0.00	0.00	0.00	0.00	0.00	0.00	12.55	0.00	0.	1.98
129	8.900	21.68	0.69	369.00	1405.00	7.77	7.27	0.00	7.27	0.00	0.00	0.00	0.00	0.00	0.00	12.20	0.00	0.	1.97
130	8.800	21.68	0.69	369.00	1405.00	7.77	7.26	0.00	7.26	0.00	0.00	0.00	0.00	0.00	0.00	11.85	0.00	0.	1.97
131	8.700	21.68	0.69	369.00	1404.99	7.78	7.25	0.00	7.25	0.00	0.00	0.00	0.00	0.00	0.00	11.50	0.00	0.	1.96
132	8.600	21.68	0.69	369.00	1404.99	7.78	7.24	0.00	7.24	0.00	0.00	0.00	0.00	0.00	0.00	11.15	0.00	0.	1.96
133	8.500	21.68	0.69	369.00	1404.99	7.78	7.23	0.00	7.23	0.00	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.	1.95
134	8.400	21.68	0.69	369.00	1404.99	7.78	7.22	0.00	7.22	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.00	0.	1.95

FINAL REPORT
REACH NO. 8 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
135	UPR RCH	20.63600	21.68	0.69	369.00	1404.99	7.78	7.22	0.00	7.22	0.00	0.00	0.00	0.00	0.00	10.45	0.00	1.95

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
135	8.40	8.30	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
136	8.30	8.20	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
137	8.20	8.10	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
138	8.10	8.00	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
139	8.00	7.90	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
140	7.90	7.80	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
141	7.80	7.70	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
142	7.70	7.60	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
143	7.60	7.50	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
144	7.50	7.40	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
145	7.40	7.30	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
146	7.30	7.20	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
147	7.20	7.10	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
148	7.10	7.00	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
149	7.00	6.90	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
150	6.90	6.80	20.63600	0.0	0.04899	0.02	2.34	180.00	42120.00	18000.00	421.20	0.00	0.000	10.000	0.049
TOT						0.38			673920.00	288000.00					
AVG					0.04899		2.34	180.00			421.20				
CUM						5.51									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
135	8.300	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.10	0.00
136	8.200	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.10	0.00
137	8.100	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.10	0.00
138	8.000	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.10	0.00
139	7.900	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.10	0.00
140	7.800	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.10	0.00
141	7.700	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.10	0.00
142	7.600	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.10	0.00
143	7.500	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.10	0.00
144	7.400	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.10	0.00
145	7.300	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.10	0.00
146	7.200	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.10	0.00
147	7.100	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.10	0.00
148	7.000	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.10	0.00
149	6.900	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.10	0.00
150	6.800	8.76	0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.58	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
135	8.300	21.68	0.69	369.00	1404.99	7.78	7.22	0.00	7.22	0.00	0.00	0.00	0.00	0.00	0.00	10.08	0.00	0.	1.95
136	8.200	21.68	0.69	369.00	1404.99	7.77	7.21	0.00	7.21	0.00	0.00	0.00	0.00	0.00	0.00	9.71	0.00	0.	1.94
137	8.100	21.68	0.69	369.00	1404.99	7.77	7.20	0.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	9.33	0.00	0.	1.94
138	8.000	21.68	0.69	369.00	1404.99	7.76	7.19	0.00	7.19	0.00	0.00	0.00	0.00	0.00	0.00	8.96	0.00	0.	1.93
139	7.900	21.68	0.69	369.00	1404.99	7.76	7.18	0.00	7.18	0.00	0.00	0.00	0.00	0.00	0.00	8.59	0.00	0.	1.93
140	7.800	21.68	0.69	368.99	1404.98	7.75	7.17	0.00	7.17	0.00	0.00	0.00	0.00	0.00	0.00	8.22	0.00	0.	1.92
141	7.700	21.68	0.69	368.99	1404.98	7.74	7.16	0.00	7.16	0.00	0.00	0.00	0.00	0.00	0.00	7.85	0.00	0.	1.92
142	7.600	21.68	0.69	368.99	1404.97	7.73	7.15	0.00	7.15	0.00	0.00	0.00	0.00	0.00	0.00	7.47	0.00	0.	1.91
143	7.500	21.68	0.70	368.99	1404.96	7.73	7.14	0.00	7.14	0.00	0.00	0.00	0.00	0.00	0.00	7.10	0.00	0.	1.91
144	7.400	21.68	0.70	368.98	1404.94	7.72	7.13	0.00	7.13	0.00	0.00	0.00	0.00	0.00	0.00	6.73	0.00	0.	1.91
145	7.300	21.68	0.70	368.97	1404.91	7.71	7.12	0.00	7.12	0.00	0.00	0.00	0.00	0.00	0.00	6.36	0.00	0.	1.90
146	7.200	21.68	0.70	368.96	1404.88	7.70	7.11	0.00	7.11	0.00	0.00	0.00	0.00	0.00	0.00	5.99	0.00	0.	1.90
147	7.100	21.68	0.70	368.93	1404.82	7.69	7.10	0.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	5.62	0.00	0.	1.89
148	7.000	21.68	0.70	368.90	1404.73	7.68	7.09	0.00	7.09	0.00	0.00	0.00	0.00	0.00	0.00	5.24	0.00	0.	1.88
149	6.900	21.68	0.70	368.86	1404.60	7.67	7.07	0.00	7.07	0.00	0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.	1.88
150	6.800	21.68	0.70	368.79	1404.41	7.65	7.05	0.00	7.05	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.87

FINAL REPORT
REACH NO. 9 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
151	UPR RCH	20.63600	21.68	0.70	368.79	1404.41	7.65	7.05	0.00	7.05	0.00	0.00	0.00	0.00	0.00	4.50	0.00	1.87

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
151	6.80	6.70	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
152	6.70	6.60	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
153	6.60	6.50	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
154	6.50	6.40	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
155	6.40	6.30	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
156	6.30	6.20	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
157	6.20	6.10	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
158	6.10	6.00	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
159	6.00	5.90	20.63600	0.0	0.03602	0.03	2.17	264.00	57288.00	26400.00	572.88	0.00	0.000	10.000	0.036
TOT						0.29			515592.00	237600.00					
AVG					0.03602		2.17	264.00			572.88				
CUM						5.80									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
151	6.700	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
152	6.600	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
153	6.500	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
154	6.400	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
155	6.300	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
156	6.200	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
157	6.100	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
158	6.000	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
159	5.900	8.76	0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.54	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
151	6.700	21.68	0.70	368.70	1404.17	7.64	7.03	0.00	7.03	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.87
152	6.600	21.68	0.70	368.60	1403.88	7.62	7.02	0.00	7.02	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.86
153	6.500	21.68	0.70	368.45	1403.48	7.61	6.99	0.00	6.99	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.85
154	6.400	21.68	0.70	368.26	1402.93	7.60	6.97	0.00	6.97	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.85
155	6.300	21.68	0.70	367.99	1402.19	7.59	6.94	0.00	6.94	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.84
156	6.200	21.68	0.70	367.63	1401.18	7.58	6.90	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.83
157	6.100	21.68	0.70	367.13	1399.81	7.57	6.86	0.00	6.86	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.83
158	6.000	21.68	0.70	366.46	1397.94	7.57	6.80	0.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.82
159	5.900	21.68	0.70	365.55	1395.40	7.56	6.73	0.00	6.73	0.00	0.00	0.00	0.00	0.00	0.00	4.50	0.00	0.	1.81

FINAL REPORT
REACH NO. 10 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
160	UPR RCH	20.63600	21.68	0.70	365.55	1395.40	7.56	6.73	0.00	6.73	0.00	0.00	0.00	0.00	0.00	4.50	0.00	1.81
163	WSTLD	6.16400	27.88	0.71	346.00	1341.00	6.25	6.50	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
160	5.90	5.80	20.63600	0.0	0.00990	0.12	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.010
161	5.80	5.70	20.63600	0.0	0.00990	0.12	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.010
162	5.70	5.60	20.63600	0.0	0.00990	0.12	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.010
163	5.60	5.50	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
164	5.50	5.40	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
165	5.40	5.30	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
166	5.30	5.20	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
167	5.20	5.10	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
168	5.10	5.00	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
169	5.00	4.90	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
170	4.90	4.80	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
171	4.80	4.70	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
172	4.70	4.60	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
173	4.60	4.50	26.80000	23.0	0.01286	0.09	1.97	1058.00	208426.00	105800.00	2084.26	0.00	0.000	10.000	0.013
TOT						1.34			2917964.00	1481200.00					
AVG					0.01208		1.97	1058.00			2084.26				
CUM						7.14									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
160	5.800	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
161	5.700	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.10	0.00
162	5.600	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.10	0.00
163	5.500	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.10	0.00
164	5.400	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.10	0.00
165	5.300	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.10	0.00
166	5.200	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.10	0.00
167	5.100	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.10	0.00
168	5.000	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.10	0.00
169	4.900	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.10	0.00
170	4.800	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.10	0.00
171	4.700	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.10	0.00
172	4.600	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.10	0.00
173	4.500	8.76	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.59	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
160	5.800	21.68	0.70	365.01	1393.91	7.57	6.69	0.00	6.69	0.00	0.00	0.00	0.00	0.00	0.00	4.45	0.00	0.	1.81
161	5.700	21.68	0.70	364.62	1392.81	7.56	6.67	0.00	6.67	0.00	0.00	0.00	0.00	0.00	0.00	4.39	0.00	0.	1.81
162	5.600	21.68	0.69	364.19	1391.61	7.55	6.64	0.00	6.64	0.00	0.00	0.00	0.00	0.00	0.00	4.34	0.00	0.	1.80
163	5.500	21.68	0.69	363.71	1390.28	7.54	6.62	0.00	6.62	0.00	0.00	0.00	0.00	0.00	0.00	4.29	0.00	0.	1.79
164	5.400	21.68	0.69	363.71	1390.28	7.56	6.60	0.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	4.23	0.00	0.	1.80
165	5.300	21.68	0.69	363.71	1390.28	7.58	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	4.18	0.00	0.	1.81
166	5.200	21.68	0.69	363.71	1390.28	7.60	6.58	0.00	6.58	0.00	0.00	0.00	0.00	0.00	0.00	4.12	0.00	0.	1.81
167	5.100	21.68	0.68	363.71	1390.28	7.62	6.57	0.00	6.57	0.00	0.00	0.00	0.00	0.00	0.00	4.07	0.00	0.	1.82
168	5.000	21.68	0.68	363.71	1390.28	7.64	6.56	0.00	6.56	0.00	0.00	0.00	0.00	0.00	0.00	4.02	0.00	0.	1.83
169	4.900	21.68	0.68	363.71	1390.28	7.66	6.55	0.00	6.55	0.00	0.00	0.00	0.00	0.00	0.00	3.96	0.00	0.	1.83
170	4.800	21.68	0.68	363.71	1390.28	7.67	6.55	0.00	6.55	0.00	0.00	0.00	0.00	0.00	0.00	3.91	0.00	0.	1.84
171	4.700	21.68	0.67	363.71	1390.28	7.69	6.55	0.00	6.55	0.00	0.00	0.00	0.00	0.00	0.00	3.86	0.00	0.	1.85
172	4.600	21.68	0.67	363.71	1390.28	7.70	6.56	0.00	6.56	0.00	0.00	0.00	0.00	0.00	0.00	3.80	0.00	0.	1.86
173	4.500	21.68	0.67	363.71	1390.28	7.72	6.57	0.00	6.57	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.86

FINAL REPORT
REACH NO. 11 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
174	UPR RCH	26.80000	21.68	0.67	363.71	1390.28	7.72	6.57	0.00	6.57	0.00	0.00	0.00	0.00	0.00	3.75	0.00	1.86

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
174	4.50	4.40	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
175	4.40	4.30	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
176	4.30	4.20	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
177	4.20	4.10	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
178	4.10	4.00	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
179	4.00	3.90	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
180	3.90	3.80	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
181	3.80	3.70	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
182	3.70	3.60	26.80000	23.0	0.01244	0.09	1.76	1224.00	215424.00	122400.00	2154.24	0.00	0.000	10.000	0.012
TOT						0.84			1938816.00	1101600.00					
AVG					0.01244		1.76	1224.00			2154.24				
CUM						7.98									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
174	4.400	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
175	4.300	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
176	4.200	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
177	4.100	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
178	4.000	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
179	3.900	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
180	3.800	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
181	3.700	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
182	3.600	8.76	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.66	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
174	4.400	21.68	0.67	363.71	1390.28	7.73	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.87
175	4.300	21.68	0.67	363.71	1390.29	7.75	6.61	0.00	6.61	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.88
176	4.200	21.68	0.67	363.71	1390.29	7.76	6.62	0.00	6.62	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.88
177	4.100	21.68	0.67	363.71	1390.29	7.77	6.64	0.00	6.64	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.89
178	4.000	21.68	0.67	363.71	1390.29	7.78	6.66	0.00	6.66	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.90
179	3.900	21.68	0.67	363.71	1390.29	7.79	6.67	0.00	6.67	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.90
180	3.800	21.68	0.67	363.71	1390.29	7.80	6.69	0.00	6.69	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.91
181	3.700	21.68	0.67	363.71	1390.29	7.81	6.70	0.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.91
182	3.600	21.68	0.67	363.71	1390.29	7.82	6.71	0.00	6.71	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.00	0.	1.92

FINAL REPORT
REACH NO. 12 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
183	UPR RCH	26.80000	21.68	0.67	363.71	1390.29	7.82	6.71	0.00	6.71	0.00	0.00	0.00	0.00	0.00	3.75	0.00	1.92

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
183	3.60	3.50	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
184	3.50	3.40	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
185	3.40	3.30	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
186	3.30	3.20	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
187	3.20	3.10	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
188	3.10	3.00	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
189	3.00	2.90	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
190	2.90	2.80	26.80000	23.0	0.01466	0.08	1.81	1010.00	182810.00	101000.00	1828.10	0.00	0.000	10.000	0.015
TOT						0.63			1462480.00	808000.00					
AVG					0.01466		1.81	1010.00			1828.10				
CUM						8.61									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
183	3.500	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
184	3.400	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.10	0.00
185	3.300	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.10	0.00
186	3.200	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.10	0.00
187	3.100	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.10	0.00
188	3.000	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.10	0.00
189	2.900	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.10	0.00
190	2.800	8.76	0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
183	3.500	21.68	0.67	363.71	1390.29	7.82	6.73	0.00	6.73	0.00	0.00	0.00	0.00	0.00	0.00	3.66	0.00	0.	1.92
184	3.400	21.68	0.67	363.71	1390.29	7.83	6.74	0.00	6.74	0.00	0.00	0.00	0.00	0.00	0.00	3.56	0.00	0.	1.93
185	3.300	21.68	0.66	363.71	1390.29	7.83	6.75	0.00	6.75	0.00	0.00	0.00	0.00	0.00	0.00	3.47	0.00	0.	1.93
186	3.200	21.68	0.66	363.71	1390.29	7.84	6.77	0.00	6.77	0.00	0.00	0.00	0.00	0.00	0.00	3.38	0.00	0.	1.93
187	3.100	21.68	0.66	363.71	1390.29	7.84	6.78	0.00	6.78	0.00	0.00	0.00	0.00	0.00	0.00	3.28	0.00	0.	1.94
188	3.000	21.68	0.65	363.71	1390.29	7.85	6.79	0.00	6.79	0.00	0.00	0.00	0.00	0.00	0.00	3.19	0.00	0.	1.94
189	2.900	21.68	0.65	363.71	1390.29	7.85	6.80	0.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	3.09	0.00	0.	1.94
190	2.800	21.68	0.65	363.71	1390.29	7.85	6.81	0.00	6.81	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.95

FINAL REPORT
REACH NO. 13 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
191	UPR RCH	26.80000	21.68	0.65	363.71	1390.29	7.85	6.81	0.00	6.81	0.00	0.00	0.00	0.00	0.00	3.00	0.00	1.95

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
191	2.80	2.70	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
192	2.70	2.60	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
193	2.60	2.50	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
194	2.50	2.40	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
195	2.40	2.30	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
196	2.30	2.20	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
197	2.20	2.10	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
198	2.10	2.00	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
199	2.00	1.90	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
200	1.90	1.80	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
201	1.80	1.70	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
202	1.70	1.60	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
203	1.60	1.50	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
204	1.50	1.40	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
205	1.40	1.30	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
206	1.30	1.20	26.80000	23.0	0.02897	0.04	1.85	500.00	92500.00	50000.00	925.00	0.00	0.000	10.000	0.029
TOT						0.64			1480000.00	800000.00					
AVG					0.02897		1.85	500.00			925.00				
CUM						9.25									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
191	2.700	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
192	2.600	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
193	2.500	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
194	2.400	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
195	2.300	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
196	2.200	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
197	2.100	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
198	2.000	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
199	1.900	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
200	1.800	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00

201	1.700	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
202	1.600	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
203	1.500	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
204	1.400	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
205	1.300	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
206	1.200	8.76	0.65	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.63	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m³	COLI #/100mL	NBOD mg/L
191	2.700	21.68	0.65	363.71	1390.29	7.85	6.81	0.00	6.81	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.95
192	2.600	21.68	0.65	363.71	1390.28	7.86	6.82	0.00	6.82	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.95
193	2.500	21.68	0.65	363.71	1390.28	7.86	6.84	0.00	6.84	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.95
194	2.400	21.68	0.65	363.71	1390.28	7.86	6.85	0.00	6.85	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.96
195	2.300	21.68	0.65	363.71	1390.27	7.86	6.86	0.00	6.86	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.96
196	2.200	21.68	0.65	363.71	1390.27	7.87	6.87	0.00	6.87	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.96
197	2.100	21.68	0.65	363.70	1390.26	7.87	6.88	0.00	6.88	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.96
198	2.000	21.68	0.65	363.70	1390.25	7.87	6.89	0.00	6.89	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.97
199	1.900	21.68	0.65	363.70	1390.24	7.87	6.90	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.97
200	1.800	21.68	0.65	363.69	1390.22	7.87	6.91	0.00	6.91	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.97
201	1.700	21.68	0.65	363.69	1390.20	7.88	6.92	0.00	6.92	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.97
202	1.600	21.68	0.65	363.68	1390.18	7.88	6.92	0.00	6.92	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.98
203	1.500	21.68	0.65	363.67	1390.15	7.88	6.93	0.00	6.93	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.98
204	1.400	21.68	0.65	363.66	1390.10	7.88	6.94	0.00	6.94	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.98
205	1.300	21.68	0.65	363.64	1390.05	7.88	6.94	0.00	6.94	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.98
206	1.200	21.68	0.65	363.62	1389.98	7.88	6.95	0.00	6.95	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.98

FINAL REPORT
REACH NO. 14 Bayou Des Allemands

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
207	UPR RCH	26.80000	21.68	0.65	363.62	1389.98	7.88	6.95	0.00	6.95	0.00	0.00	0.00	0.00	0.00	3.00	0.00	1.98

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
207	1.20	1.10	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
208	1.10	1.00	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
209	1.00	0.90	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068

210	0.90	0.80	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
211	0.80	0.70	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
212	0.70	0.60	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
213	0.60	0.50	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
214	0.50	0.40	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
215	0.40	0.30	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
216	0.30	0.20	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
217	0.20	0.10	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
218	0.10	0.00	26.80000	23.0	0.06801	0.02	1.85	213.00	39405.00	21300.00	394.05	0.00	0.000	10.000	0.068
TOT						0.20			472860.00	255600.00					
AVG					0.06801		1.85	213.00			394.05				
CUM						9.45									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
207	1.100	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
208	1.000	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
209	0.900	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
210	0.800	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
211	0.700	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
212	0.600	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
213	0.500	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
214	0.400	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
215	0.300	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
216	0.200	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
217	0.100	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
218	0.000	8.76	0.91	0.05	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00
AVG 20 DEG C RATE			0.88	0.05	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.09	0.00

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

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO g/m^3	COLI #/100mL	NBOD mg/L
207	1.100	21.68	0.65	363.58	1389.85	7.89	6.95	0.00	6.95	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.98
208	1.000	21.68	0.65	363.49	1389.55	7.89	6.95	0.00	6.95	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.98
209	0.900	21.68	0.65	363.34	1389.04	7.89	6.96	0.00	6.96	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.98
210	0.800	21.68	0.65	363.09	1388.18	7.89	6.95	0.00	6.95	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.98
211	0.700	21.68	0.65	362.67	1386.74	7.89	6.95	0.00	6.95	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.98
212	0.600	21.68	0.64	361.96	1384.33	7.88	6.94	0.00	6.94	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.97
213	0.500	21.68	0.64	360.78	1380.27	7.87	6.91	0.00	6.91	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.96
214	0.400	21.68	0.64	358.78	1373.46	7.84	6.86	0.00	6.86	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.94
215	0.300	21.68	0.64	355.42	1362.00	7.78	6.78	0.00	6.78	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.90
216	0.200	21.68	0.64	349.78	1342.76	7.69	6.63	0.00	6.63	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.84
217	0.100	21.68	0.64	340.30	1310.44	7.53	6.38	0.00	6.38	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.74
218	0.000	21.68	0.64	324.38	1256.13	7.24	5.95	0.00	5.95	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.	1.57

STREAM SUMMARY

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

TRAVEL TIME	=	9.45	DAYS		
MAXIMUM EFFLUENT	=	23.00	PERCENT		
FLOW	=	20.63600	TO	26.80000	m^3/s
DISPERSION	=	10.0000	TO	10.0000	m^2/s
VELOCITY	=	0.00990	TO	0.06801	m/s
DEPTH	=	1.76	TO	2.50	m
WIDTH	=	180.00	TO	******	m
BOD DECAY	=	0.05	TO	0.05	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.22	TO	4.08	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.48	TO	0.91	per day
BOD SETTLING	=	0.00	TO	0.00	per day
ORG-N DECAY	=	0.00	TO	0.00	per day
ORG-N SETTLING	=	0.00	TO	0.00	per day
TEMPERATURE	=	21.68	TO	21.68	deg C
DISSOLVED OXYGEN	=	5.71	TO	7.89	mg/L

LA-QUAL model for Bayou Des Allemands (020301)
WINTER DO projection meeting standards

INPUT/OUTPUT LOADING SUMMARY

	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER INFLOW	26.800	14541.5	10558.8	0.0	0.0	0.0	0.0	0.0	0.0	1991.3
INCREMENTAL INFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	6.164	3328.6	3461.7	0.0	0.0	0.0	0.0	0.0	0.0	703.0
WITHDRAWLS	-6.164	-3996.5	-3968.0	0.0	0.0	0.0	0.0	0.0	0.0	-1109.8
OUTFLOW THRU LOWER BNDRY	-26.800	-16771.4	-13778.1	0.0	0.0	0.0	0.0	0.0	0.0	-3627.0
DISPERSION THRU LOWER BNDRY		-1654.8	-2453.7	0.0	0.0	0.0	0.0	0.0	0.0	-996.9
NON-POINT INPUT		0.0	13322.0	0.0	0.0					6627.0
NATURAL REAERATION		19755.7								
DAM REAERATION		0.0								
BACKGROUND SOD		-11717.4								
BOD#1 DECAY		-7142.6	-7142.6							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY			0.0							
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY				0.0						
ORG-N DECAY		0.0			0.0	0.0				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		0.0				0.0	0.0			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		7244.6				0.0	0.0	0.0	0.0	
ALGAE RESPIRATION		0.0				0.0		0.0	0.0	
ALGAE SETTLING		0.0							0.0	
MACRO PHOTOSYNTHESIS		0.0				0.0	0.0	0.0		
NCM DECAY		-3587.8								-3587.8
NCM SETTLING		0.0								0.0
TOTAL INPUTS	32.964	44870.3	27342.5	0.0	0.0	0.0	0.0	0.0	0.0	9321.3
TOTAL OUTPUTS	-32.964	-44870.4	-27342.4	0.0	0.0	0.0	0.0	0.0	0.0	-9321.4
NET CONVERGENCE ERROR	0.000	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1

.....EXECUTION COMPLETED