APPENDIX A

Maps

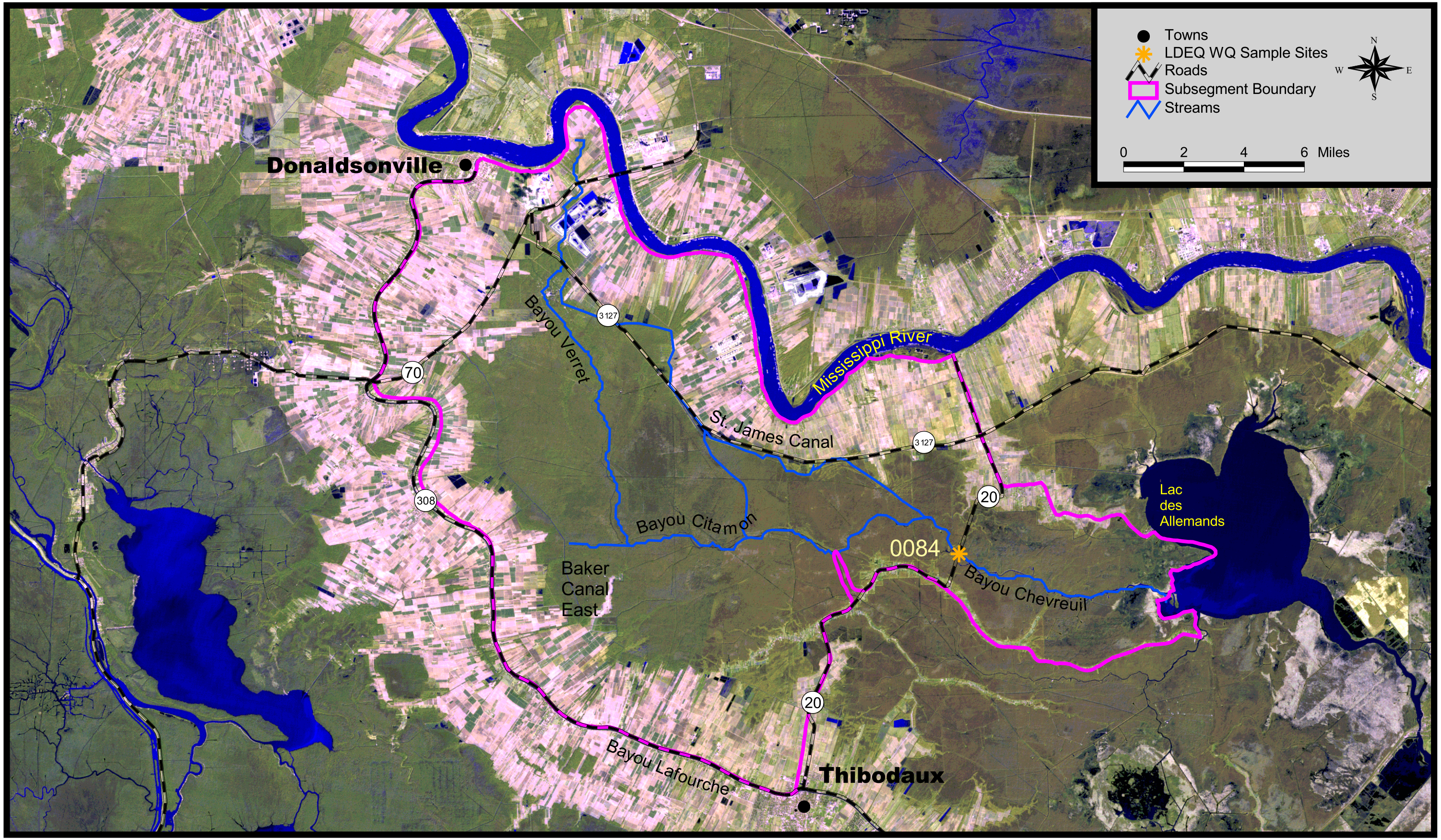


Figure A.1. Watershed map for subsegment 020101.

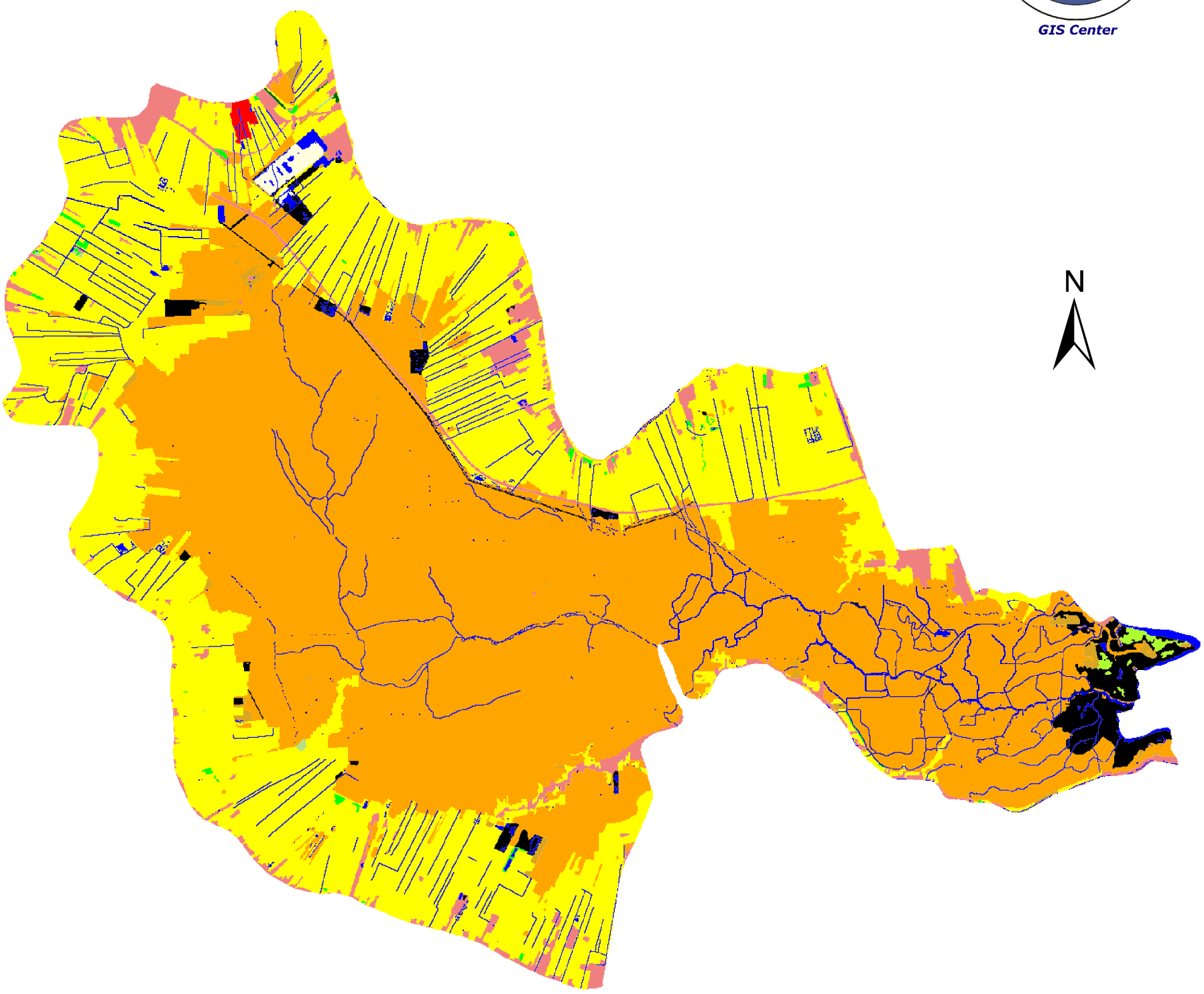
LDEQ BASIN SUBSEGMENT 020101

USGS Louisisna GAP Land Cover

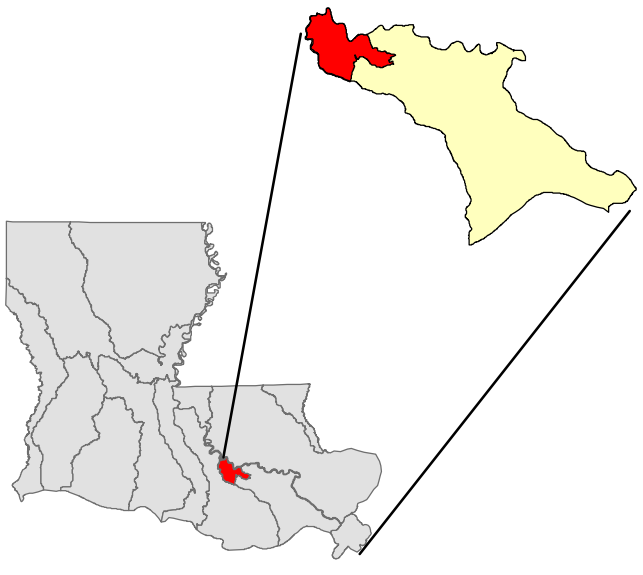
BARATARIA BASIN

Map Date: 1/09/04
Map number: 200401002
Map sources: LDEQ basin-subsegment data,
USGS Louisiana GAP Data
Map projection: UTM Zone 15; NAD83

Louisiana Department of Environmental Quality
LDEQ
GIS Center



Subsegment 020201



Legend

- Fresh Marsh
- Intermediate Marsh
- Brackish Marsh
- Saline Marsh
- Wetland Forest Deciduous
- Wetland Forest Evergreen
- Wetland Forest Mixed
- Upland Forest Deciduous
- Upland Forest Evergreen
- Upland Forest Mixed
- Dense Pine Thicket
- Wetland S/S Deciduous
- Wetland S/S Evergreen
- Wetland S/S Mixed
- Upland S/S Deciduous
- Upland S/S Evergreen
- Upland S/S Mixed
- Agriculture/Cropland/Grassland
- Vegetated Urban
- Non-Vegetated Urban
- Wetland Barren
- Upland Barren
- Water

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.

0 2 4 8 Miles

Figure A.3. Location of point source discharges in subsegment 020101.

APPENDIX B

Historical DO Data

Long Term DO data from LDEQ station 0084 (Bayou Chevreuil near Chegby (Chackbay), Louisiana)
Downloaded from LDEQ website on 6/17/02 (http://www.deq.state.la.us/surveillance/wqdata/0084wqnf.txt)

DATE	TIME	D.O. (mg/l)	Meets Standards
12/5/00	1025	0.40	NO
10/31/00	1005	4.20	NO
10/3/00	1115	5.20	YES
9/5/00	1035	1.60	NO
8/8/00	940	3.25	NO
7/11/00	1000	2.70	NO
6/6/00	1025	2.80	NO
5/9/00	1030	4.10	NO
4/11/00	1020	2.50	NO
3/14/00	1045	6.00	YES
2/8/00	1015	4.80	NO
1/11/00	1035	2.50	NO
5/12/98	931	1.80	NO
3/10/98	917	2.70	NO
1/13/98	1110	4.70	NO
11/18/97	1051	4.50	NO
9/9/97	1102	5.50	YES
7/15/97	1125	2.00	NO
5/13/97	1057	1.70	NO
3/11/97	1055	2.10	NO
1/7/97	1055	0.30	NO
11/19/96	1105	6.60	YES
9/10/96	1100	2.40	NO
7/9/96	1115	2.20	NO
5/14/96	1030	1.40	NO
3/12/96	1125	8.20	YES
1/9/96	1025	7.57	YES
11/14/95	1014	4.32	NO
9/12/95	900	3.10	NO
7/11/95	815	3.81	NO
3/14/95	1135	5.30	YES
1/10/95	930	4.60	NO
11/15/94	845	2.70	NO
9/13/94	835	2.60	NO
7/12/94	915	1.90	NO
5/10/94	910	1.70	NO
3/15/94	900	3.60	NO
1/11/94	845	4.80	NO
11/16/93	1110	5.10	YES
9/14/93	840	3.83	NO
7/13/93	815	1.55	NO
5/11/93	910	1.30	NO
3/9/93	1033	3.70	NO
1/12/93	1100	2.00	NO
11/17/92	800	2.50	NO
9/15/92	900	0.00	NO
7/14/92	1025	1.80	NO

DATE	TIME	D.O. (mg/l)	Meets Standards
5/12/92	840	4.50	NO
3/10/92	1045	1.90	NO
1/7/92	1146	4.50	NO
11/19/91	1100	4.30	NO
9/10/91	1110	1.70	NO
7/16/91	1006	1.50	NO
5/14/91	1025	1.40	NO
3/12/91	1050	2.40	NO
1/15/91	1005	4.50	NO
12/11/90	1155	3.60	NO
11/14/90	1035	3.80	NO
10/16/90	1025	3.60	NO
9/11/90	1040	2.00	NO
8/14/90	1040	4.10	NO
7/10/90	1110	3.10	NO
6/12/90	1040	4.00	NO
5/15/90	950	2.20	NO
3/13/90	1040	3.30	NO
2/13/90	1035	3.60	NO
1/9/90	1035	1.00	NO
12/12/89	1200	3.60	NO
11/14/89	1030	0.70	NO
10/10/89	925	2.90	NO
9/12/89	945	1.10	NO
8/15/89	955	1.70	NO
7/11/89	950	1.50	NO
6/13/89	810	1.70	NO
5/9/89	755	2.50	NO
4/11/89	825	1.60	NO
3/14/89	1136	7.10	YES
1/9/89	1055	1.90	NO
12/12/88	1055	5.20	YES
11/14/88	1050	2.20	NO
10/10/88	1105	2.00	NO
9/12/88	1105	3.20	NO
8/8/88	1055	2.50	NO
7/12/88	1036	5.90	YES
6/14/88	955	2.90	NO
5/10/88	946	0.40	NO
4/12/88	934	1.10	NO
3/14/88	1155	2.40	NO
2/8/88	1150	5.70	YES
1/11/88	1143	7.20	YES
12/14/87	1143	4.20	NO
11/17/87	1048	4.50	NO
9/14/87	1155	3.00	NO
8/10/87	1145	2.30	NO
7/13/87	1150	1.00	NO
6/8/87	1210	2.00	NO
5/11/87	1145	1.60	NO

DATE	TIME	D.O. (mg/l)	Meets Standards
4/13/87	1135	1.70	NO
3/9/87	1140	3.30	NO
2/16/87	1140	3.00	NO
1/12/87	1125	3.80	NO
12/8/86	1145	2.30	NO
11/17/86	1145	2.60	NO
10/13/86	1130	2.80	NO
9/8/86	1145	3.70	NO
8/11/86	1135	2.10	NO
7/14/86	1135	2.20	NO
6/9/86	1149	2.80	NO
5/12/86	1145	4.20	NO
4/14/86	1150	3.80	NO
3/17/86	1130	4.70	NO
2/17/86	1145	5.20	YES
1/13/86	1200	3.50	NO
12/9/85	1150	2.50	NO
11/18/85	1140	0.10	NO
10/14/85	1135	2.20	NO
9/9/85	1205	1.30	NO
8/12/85	1125	0.90	NO
7/8/85	1145	1.20	NO
6/10/85	1140	4.00	NO
5/13/85	1140	3.30	NO
4/8/85	1245	2.60	NO
3/11/85	1140	1.80	NO
2/11/85	1205	7.30	YES
1/14/85	1145	6.50	YES
12/10/84	1135	3.00	NO
11/13/84	1130	2.00	NO
10/8/84	1236	2.70	NO
9/10/84	1140	2.20	NO
8/13/84	1120	1.10	NO
7/9/84	1135	2.50	NO
6/11/84	1020	6.00	YES
5/14/84	1105	4.90	NO
4/9/84	1055	2.10	NO
3/12/84	1145	3.50	NO
2/13/84	1140	4.80	NO
1/9/84	1140	1.90	NO
12/12/83	1135	0.80	NO
11/14/83	1100	1.80	NO
10/10/83	1155	1.70	NO
9/12/83	1050	0.40	NO
8/8/83	1130	1.30	NO
7/11/83	1030	1.10	NO
6/13/83	1140	1.80	NO
5/9/83	1145	0.70	NO
4/11/83	1135	1.00	NO
3/14/83	1130	2.50	NO

DATE	TIME	D.O. (mg/l)	Meets Standards
2/7/83	1150	5.30	YES
1/10/83	1130	2.30	NO
12/13/82	1215	1.30	NO
11/16/82	0	4.00	NO
9/13/82	1200	4.50	NO
8/9/82	1200	0.60	NO
7/12/82	1145	3.40	NO
6/14/82	1235	1.00	NO
5/10/82	1200	1.40	NO
4/12/82	1230	2.30	NO
3/8/82	1210	3.40	NO
2/8/82	1155	3.90	NO
1/11/82	1200	3.80	NO
12/14/81	1015	4.00	NO
11/16/81	1145	3.40	NO
10/12/81	1100	2.30	NO
9/14/81	1130	2.30	NO
8/10/81	1110	1.50	NO
7/13/81	1115	0.80	NO
6/8/81	1130	1.60	NO
5/11/81	1520	2.40	NO
4/13/81	1045	2.40	NO
3/9/81	1245	1.50	NO
2/9/81	1115	5.30	YES
1/12/81	1155	6.80	YES
12/10/80	824	3.90	NO
11/19/80	827	2.40	NO
10/15/80	845	2.20	NO
9/16/80	901	0.60	NO
8/13/80	856	2.00	NO
6/11/80	827	1.00	NO
5/14/80	810	0.20	NO
4/16/80	820	1.60	NO
3/12/80	845	1.30	NO
2/13/80	830	6.00	YES
1/16/80	807	2.10	NO
12/12/79	840	2.80	NO
11/7/79	840	2.50	NO
10/10/79	838	1.80	NO
9/12/79	854	0.30	NO
8/15/79	850	0.80	NO
7/11/79	850	4.30	NO
6/13/79	821	0.80	NO
5/16/79	815	0.80	NO
4/18/79	804	0.20	NO
3/14/79	900	2.00	NO
2/14/79	850	5.00	YES
1/10/79	919	4.20	NO
12/13/78	857	1.90	NO
11/15/78	915	2.70	NO

DATE	TIME	D.O. (mg/l)	Meets Standards
10/11/78	809	2.90	NO
9/13/78	730	0.60	NO
8/16/78	709	2.00	NO
7/12/78	636	2.90	NO
6/14/78	636	1.30	NO
5/10/78	615	1.00	NO
4/12/78	658	3.00	NO
3/6/78	1108	4.50	NO

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APPENDIX C1

Field Data Collection Sites

DESCRIPTIONS OF BAYOU CHEVREUIL FIELD DATA COLLECTION SITES (Subsegment 020101)

Station Name	Station Location	Purpose for Modeling	Data that were collected:					
			In Situ	Lab	Velocity or flow		Contin. Monitor	Cross section
					6/3	6/4		
BV-1	Bayou Verret: 2 miles North of intersection with Baker Canal East	Inflow (headwater)	X	X	Dr	Dr	X	X
BV-2	Bayou Verret: 0.7 miles North of intersection with Baker Canal East	Calibration target	X					
BCi-1	Bayou Citamon: 0.7 Miles east of Bayou Verret/Baker Canal Confluence	Calibration target	X					
BCi-2	Bayou Citamon: 2.5 Miles east of Bayou Verret/Baker Canal Confluence	Calibration target	X	X	Dr Ac	Dr	X	X
BCi-3	Bayou Citamon: 0.7 Miles west of St. James Canal Western	Calibration target	X					
BCi-4	Bayou Citamon: 2 Miles west of Grand Bayou (Landmark: Small Island)	Calibration target	X	X	Dr Ac	Dr Ac	X	X
BCi-5	Bayou Citamon: 0.6 Miles west of Grand Bayou	Calibration target	X					
BCi-6	Bayou Citamon: 0.6 Miles east of Grand Bayou	Calibration target	X					
BCi-7	Bayou Citamon: 2.0 miles east of Grand Bayou	Calibration target	X	X	Dr Ac	Dr Ac	X	X
BCh-1	Bayou Chevreuil: 0.2 Miles east of St. James Canal (eastern)	Calibration target	X					
BCh-2	Bayou Chevreuil: Near Hwy 20	Calibration target	X	X	Ac	Dr Ac	X	X
BCh-3	Bayou Chevreuil: ¼ of the way between BCh-2 and Lac Des Allemands	Calibration target	X		Ac	Ac		
BCh-4	Bayou Chevreuil: Halfway between BCh-2 and Lac Des Allemands	Calibration target	X	X	Dr	Dr	X	X
BCh-5	Bayou Chevreuil: ¾ of the way between BCh-2 and Lac Des Allemands	Calibration target	X					

DESCRIPTIONS OF BAYOU CHEVREUIL FIELD DATA COLLECTION SITES (Subsegment 020101) (Continued)

Station Name	Station Location	Purpose for Modeling	Data that were collected:					
			In Situ	Lab	Velocity or flow		Contin. Monitor	Cross section
					6/3	6/4		
BCh-6	Bayou Chevreuil: Bayou Chevreuil at mouth	Stage data	X				X	
BkC-1	Baker Canal East: At intersection of Baker Canals East, North and South	Inflow (headwater)	X	X	Dr	Dr	X	X
BkC-2	Baker Canal East: 0.7 Miles west of intersection with Bayou Verret	Calibration target	X					
SJC-1	St. James Canal Western: 0.5 Miles North of confluence with Bayou Citamon	Inflow (tributary)	X	X	Dr	Ac	X	X
GB-1	Grand Bayou: 1 mile south of Bayou Citamon	Inflow (tributary)	X	X	Dr	Ac	X	X
SJC-2	St. James Canal Eastern: 0.5 Miles North of Bayou Chevreuil	Inflow (tributary)	X	X	Dr	Dr	X	X
DBC-1	Dredge Boat Canal: 0.5 Miles north of Bayou Chevreuil	Inflow (tributary)	X	X	Dr	Dr	X	X
LDA-1	Lac Des Allemands: About 1 mile ESE of mouth of Bayou Chevreuil	Lower boundary	X	X			X	

Dr=drogue measurement
Ac=acoustic doppler measurement

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BARATARIA BASIN SUBSEGMENTS 020101, 020102, 020103 - CHEVREUIL 1

Sample_Sites
- Elevation
- In-situ
- In-situ/lab/flow/monitor
- In-situ/lab/flow/monitor/elev
- In-situ/lab/monitor

Assessment_Sites
- Meeting DO standard
- Not meeting DO standard

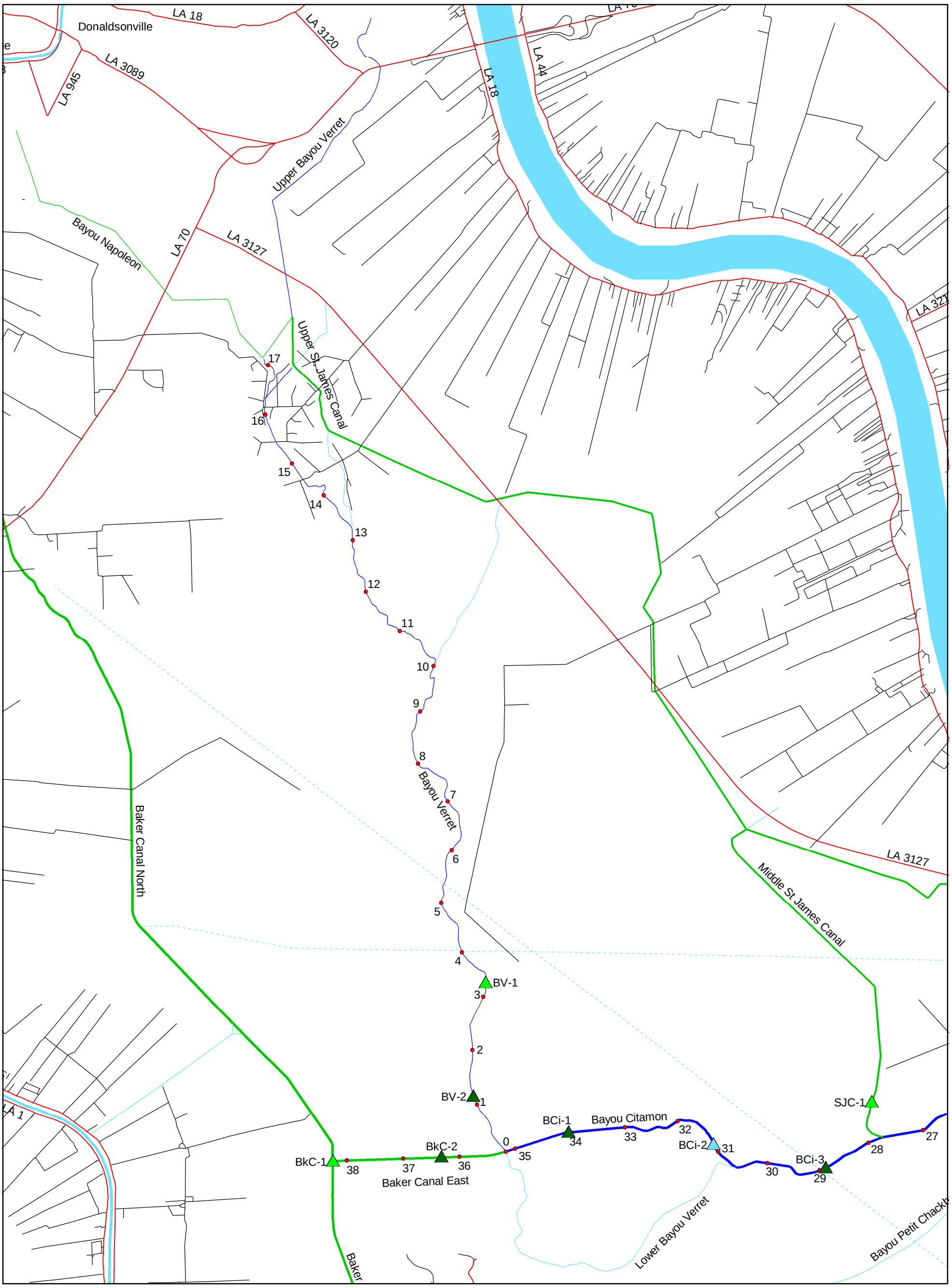
Environmental Technology Division
Engineering Group 2
Map Number: 200203023
Map Date: 12-19-02
Map Projection: UTM Zone 15, NAD83
Map Source: Digitized from USGS 7.5' topo maps

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.

303(d) Barataria waters
Significant other Barataria waters
Minor Barataria waters

1 0.5 0 1 2 3 4 5 Kilometers

N



BARATARIA BASIN SUBSEGMENTS 020101, 020102, 020103 - CHEVREUIL 2

Sample_Sites
- Elevation
- In-situ
- In-situ/lab/flow/monitor
- In-situ/lab/flow/monitor/elev
- In-situ/lab/monitor

Assessment_Sites
- Meeting DO standard
- Not meeting DO standard

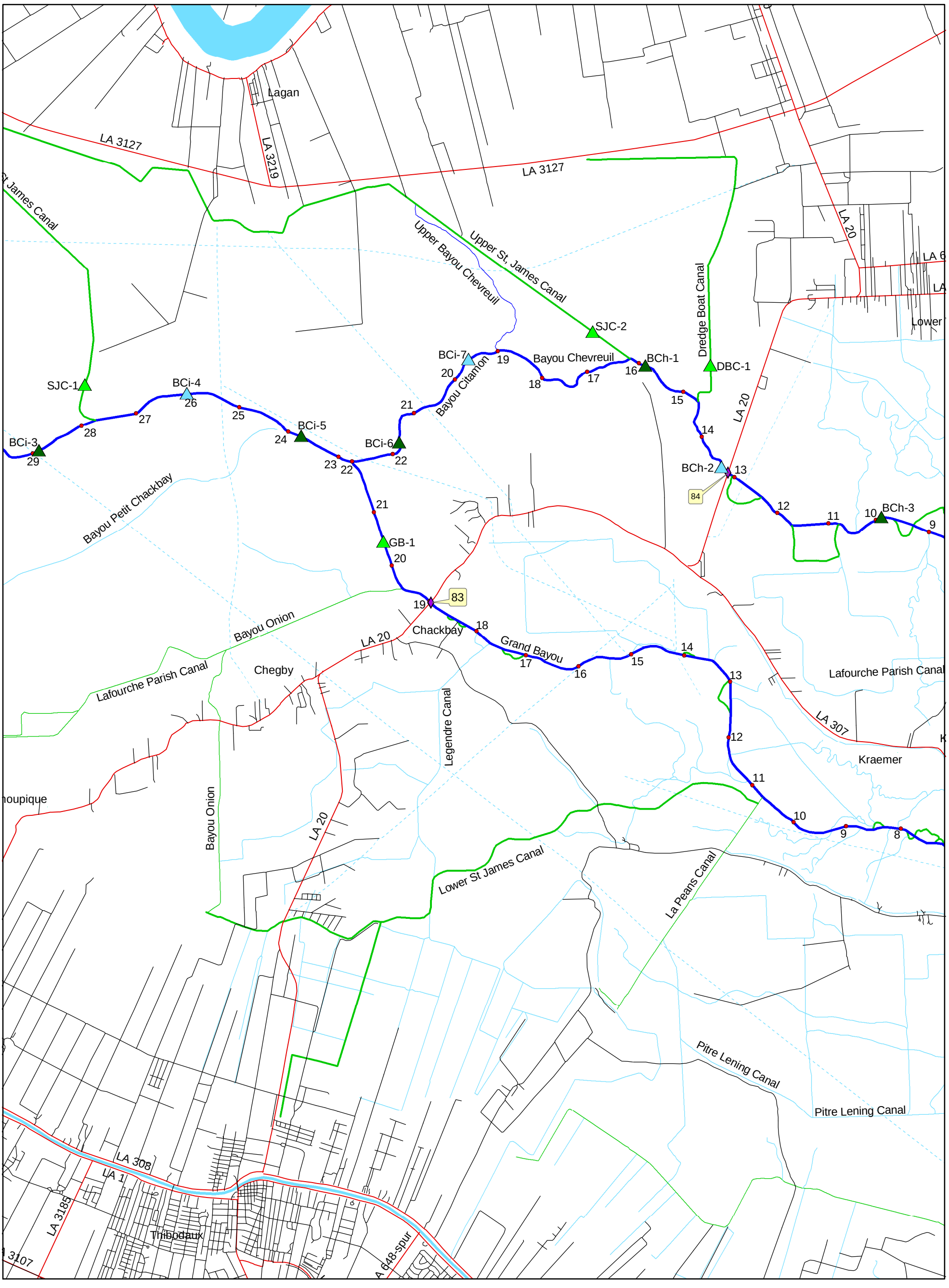
Environmental Technology Division
Engineering Group 2
Map Number: 200203023
Map Date: 12-19-02
Map Projection: UTM Zone 15, NAD83
Map Source: Digitized from USGS 7.5' topo maps

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.

303(d) Barataria waters
Significant other Barataria waters
Minor Barataria waters

1 0.5 0 1 2 3 4 5 Kilometers

N



BARATARIA BASIN SUBSEGMENTS 020101, 020102, 020103 - CHEVREUIL 3

Sample_Sites
- Elevation
- In-situ
- In-situ/lab/flow/monitor
- In-situ/lab/flow/monitor/elev
- In-situ/lab/monitor

Assessment_Sites
- Meeting DO standard
- Not meeting DO standard

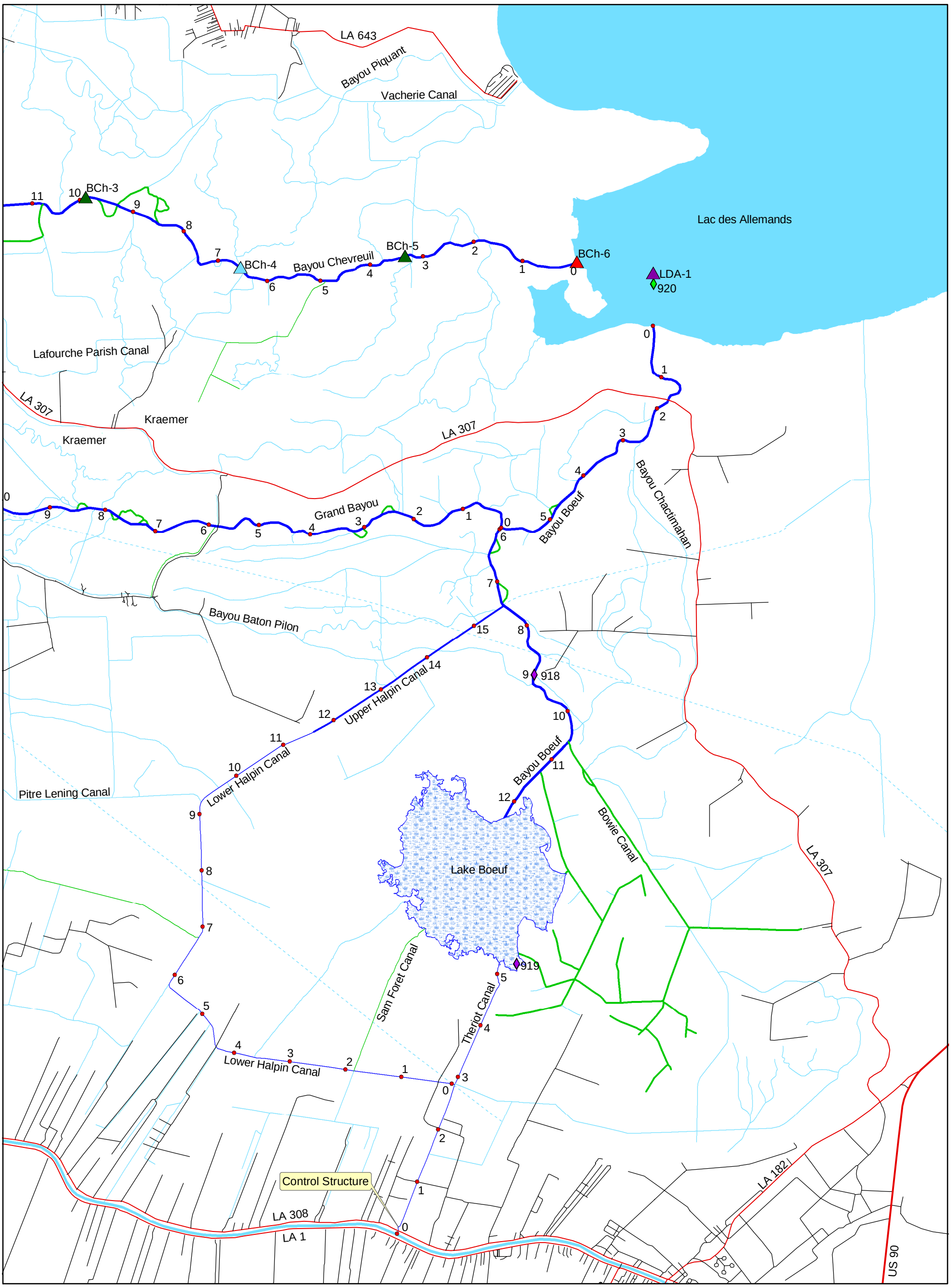
Environmental Technology Division
Engineering Group 2
Map Number: 200203023
Map Date: 12-19-02
Map Projection: UTM Zone 15, NAD83
Map Source: Digitized from USGS 7.5' topo maps

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.

303(d) Barataria waters
Significant other Barataria waters
Minor Barataria waters

1 0.5 0 1 2 3 4 5 Kilometers

N



APPENDIX C2

Water Quality Sampling Data

Table C2.1. Summary of Sampling and In Situ Data for Chevreuil (020101).

Site	Lab ID	Date	Time	Sampling Depth (m)	Temp. (ºC)	DO (mg/L)	DO (% sat)	Conduc. (umhos /cm)	Salinity (ppt)	pH (su)	Secchi Depth (ft)	TDS (ppm)	Chloride (ppm)	Chloro-phyll a, calc. (ug/L)	Total Phos. (ppm)	Ammonia Nitrogen (ppm)	TKN (ppm)	NO2 + NO3 (ppm)	TOC (ppm)
BV-1	TRG	6/4/03	1020	0.5	26.6	2.07	25.6	502.4	0.25	7.33	1.1	336	64.9		0.57	ND	1.88	ND	
BV-2		6/4/03	1005	1	26.35	2.12	26.4	279.7	0.14	7.13	1.1								
BkC-1	TRG	6/4/03	900	1	25.43	1.97	24.7	172	0.07	6.78	2	157	9.3		0.81	0.3	3.28	4.44	9.3
BkC-2		6/4/03	948	1	25.3	1.2	14.3	180.2	0.08	6.72	0.333333								
BCi-1		6/4/03	1110	1	26.65	1.1	13.9	204.3	0.09	6.99	0.5								
BCi-2	TRG	6/4/03	1120	1	26.95	1.56	19.8	252	0.12	6.94	0.9	181	22.8	58	0.28	0.3	1.72	ND	13.8
BCi-3		6/4/03	1140	1	27.19	2.88	36.2	229.3	0.11	6.98	1								
BCi-4	TRG	6/4/03	1105	0.5	25.47	4.18	37.9	207.3	0.1	6.79		158	26.2	28	0.26	0.21	1.35	ND	22.2
BCi-5		6/4/03	110	1	26.53	2.87	36	212.9	0.1	6.72									
GB-1	TRG	6/4/03	1330	0.5	27.96	5.09	65.3	237.6	0.11	6.86		171	27.7		0.37	0.14	1.45	0.05	15.5
BCi-6		6/4/03	100	0.6	27.26	4.36	54.2	231.8	0.11	6.8									
BCi-7	TRG	6/4/03	1135	0.5	27.03	3.42	41.3	262.6	0.13	6.91	1	191	34.6	63	0.43	0.19	1.42	ND	21.1
SJC-1	TRG	6/4/03	940	1	25.64	2.74	32.6	230.6	0.11	7.13	1	188	29.1		0.32	0.42	1.41	0.06	15.6
SJC-2	TRG	6/4/03	900	1	26.07	1.92	23.6	272.6	0.13	7.26	0.4925	247	31.7		0.36	0.45	2.96	1.36	14.9
BCh-1		6/4/03	1000	1	26.11	1.39	17.2	256.2	0.12	7.26	0.666667								
DBC-1	TRG	6/4/03	1013	0.5	26.25	1.88	23.3	230.9	0.11	7.38	1	194	27		0.45	0.37	1.81	0.78	14.3
BCh-2	TRG	6/4/03	1109	1	26.52	1.17	14.5	237	0.11	7.37	1	190	27.3	43	0.31	0.29	2.09	1.06	12.2
BCh-2	FD	6/4/03	1109	1	26.52	1.17	14.5	237	0.11	7.37	1	191	27.3		0.28	ND	2.11	1.17	13.1
BCh-3		6/4/03	815	1	26.94	1.97	25.4	269.3	0.13	6.9									
BCh-4	TRG	6/4/03	840	1	27.09	1.73	21.6	274.7	0.13	6.98	1.583333	191	35.3	53	0.2	0.19	1.34	ND	20.1
BCh-4	FD	6/4/03	840	1	27.09	1.73	21.6	274.7	0.13	6.98		195	35.4		0.56	0.17	0.29	ND	18.5
BCh-5		6/4/03	1015	1	27.09	1.85	23.3	260.7	0.12	6.89									
BCh-6																			
LDA-1	TRG	6/4/03	930	1	27.35	6.23	78.8	254.3	0.12	7.59		173	53.3		0.52	0.16	1.82	ND	20.7

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Table C2.2 Comparison of survey data and historical data for Bayou Chevreuil (020201).

parameter	LDEQ Station 0084 June			BCh-2 June 4,2003
TEMP	22.50	-	31.00	26.52
DO	0.8	-	6	1.17
NO2+NO3	0.01	-	1.41	1.06
TKN	1.05	-	2.44	1.12
TP	0.19	-	0.46	0.30
TOC	7.3	-	18.9	12.7

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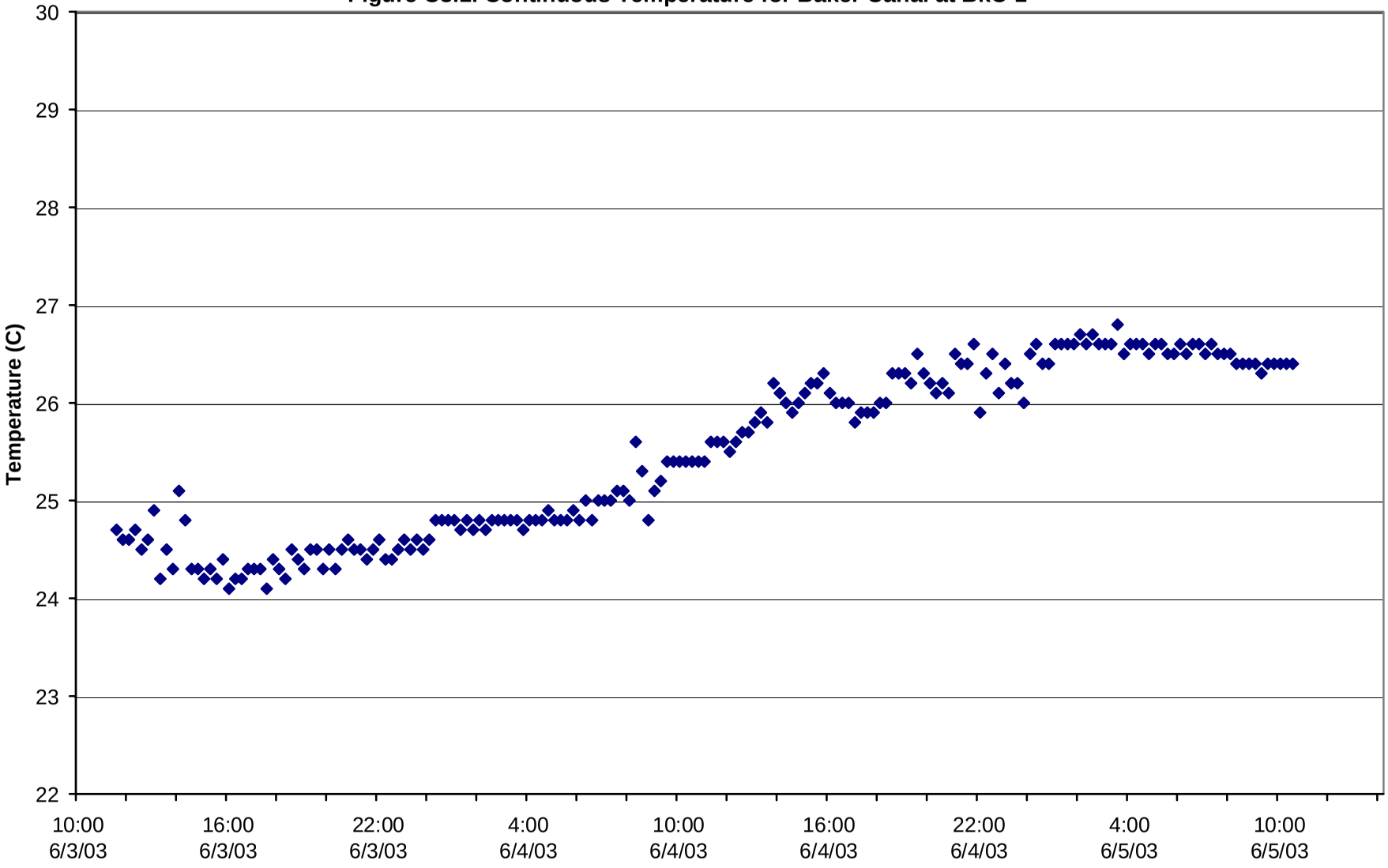
APPENDIX C3

Plots of Continuous In Situ Data

Figure C3.1. Continuous Temperature for Baker Canal at BkC-1



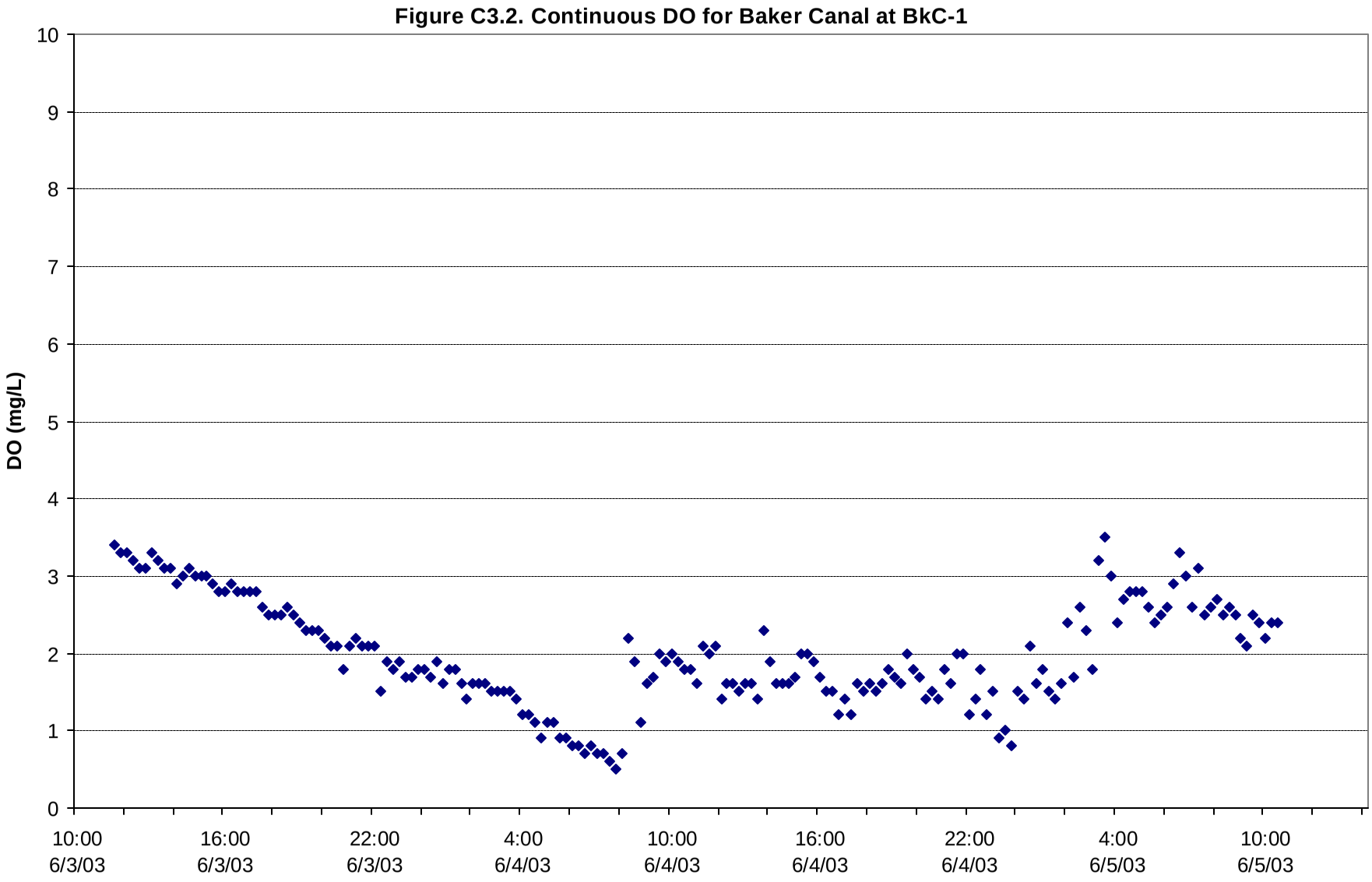


Figure C3.2. Continuous DO for Baker Canal at BkC-1
DO (mg/L)
10
9
8
7
6
5
4
3
2
1
0
10:00 6/3/03
16:00 6/3/03
22:00 6/3/03
4:00 6/4/03
10:00 6/4/03
16:00 6/4/03
22:00 6/4/03
4:00 6/5/03
10:00 6/5/03

Figure C3.3. Continuous DO Percent Saturation for Baker Canal at BkC-1

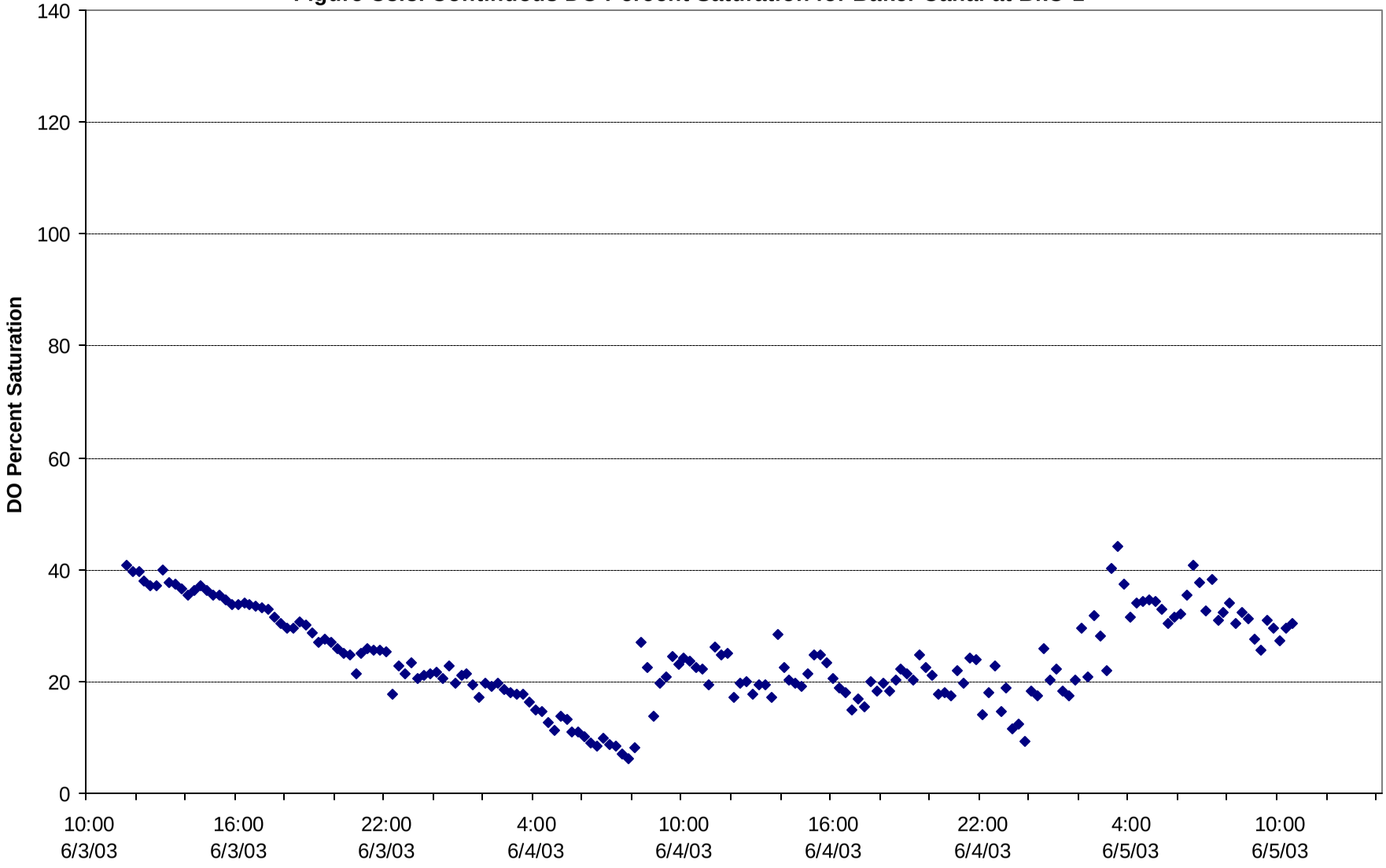


Figure C3.4. Continuous pH for Baker Canal at BkC-1

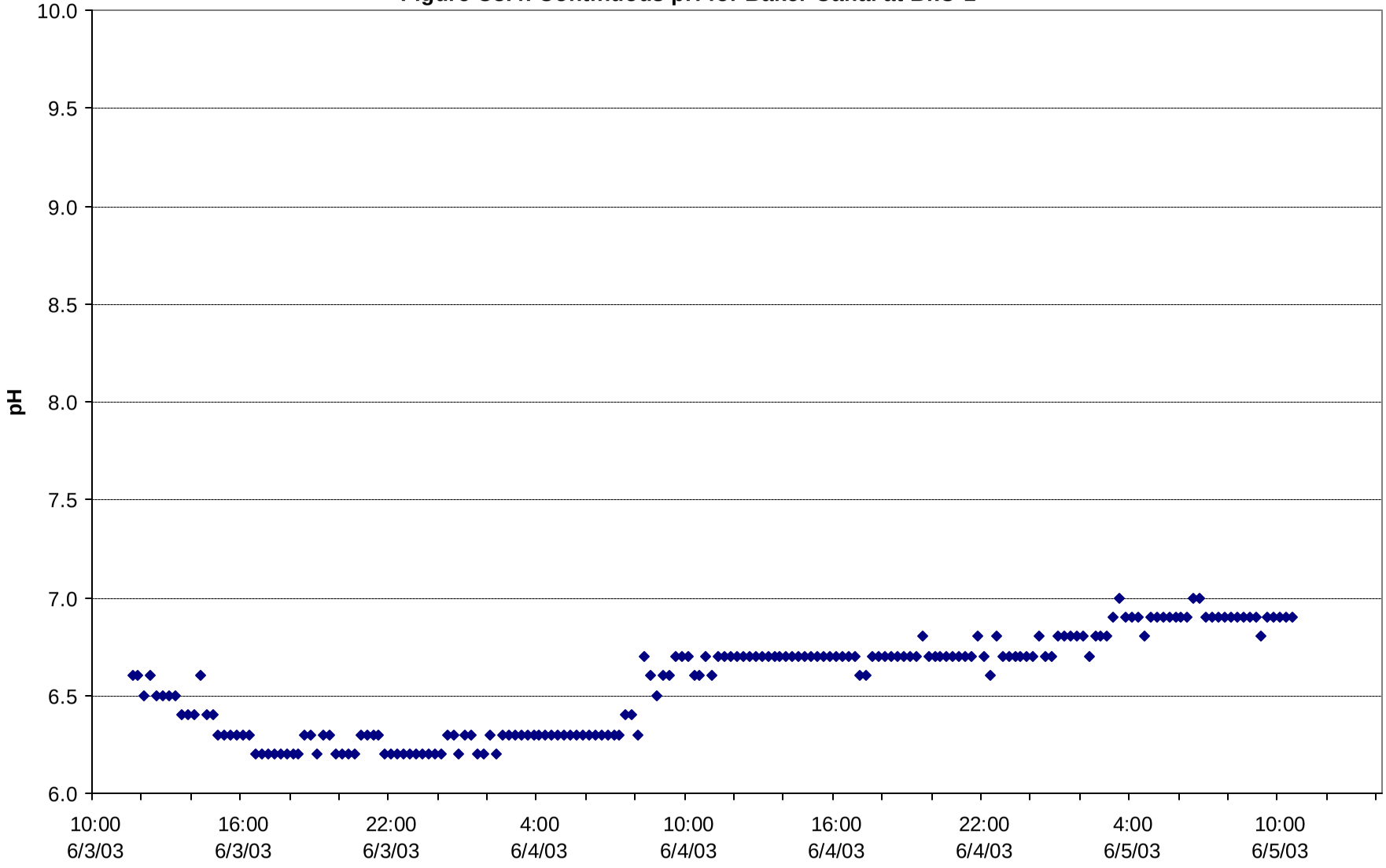
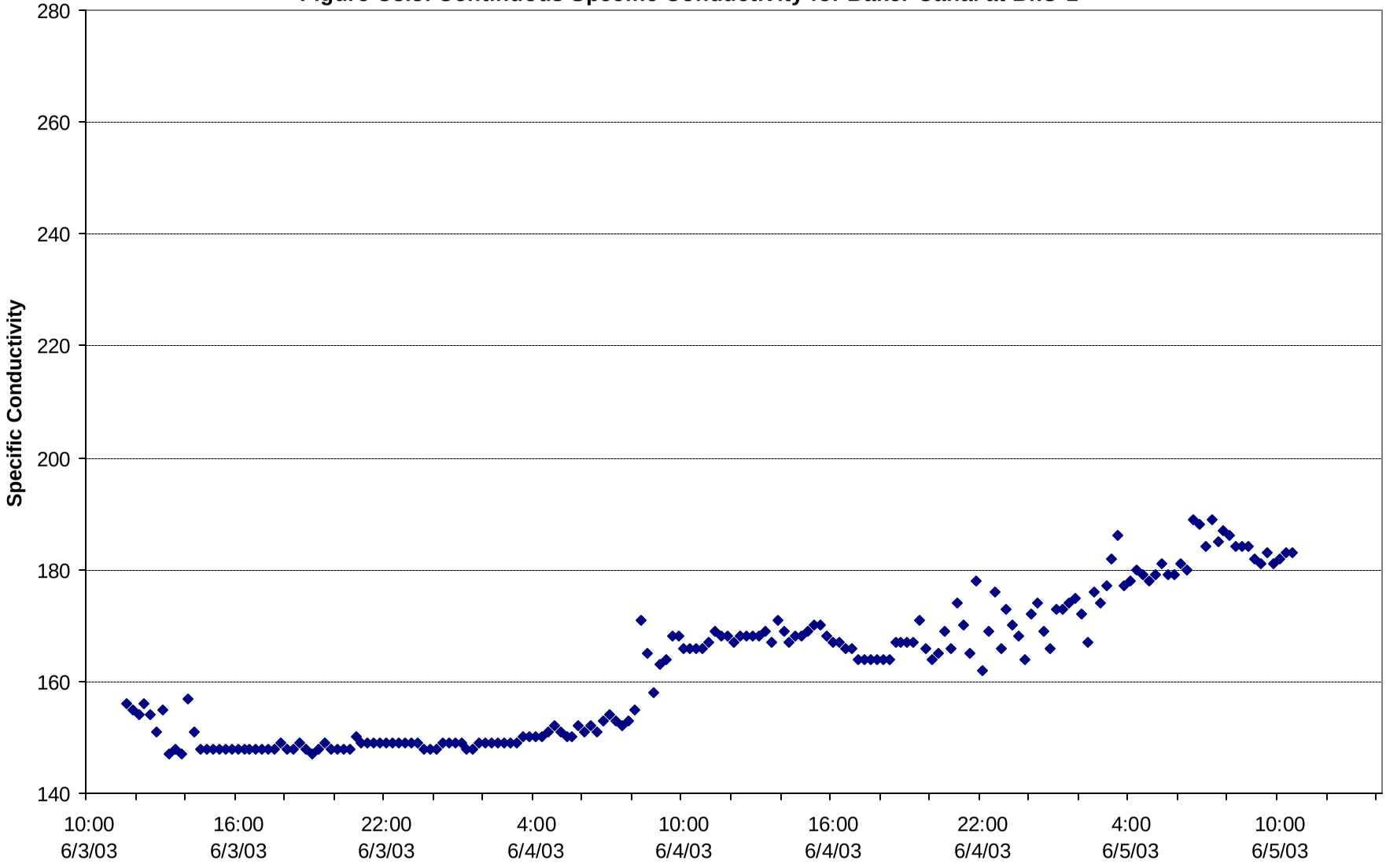


Figure C3.5. Continuous Specific Conductivity for Baker Canal at BkC-1



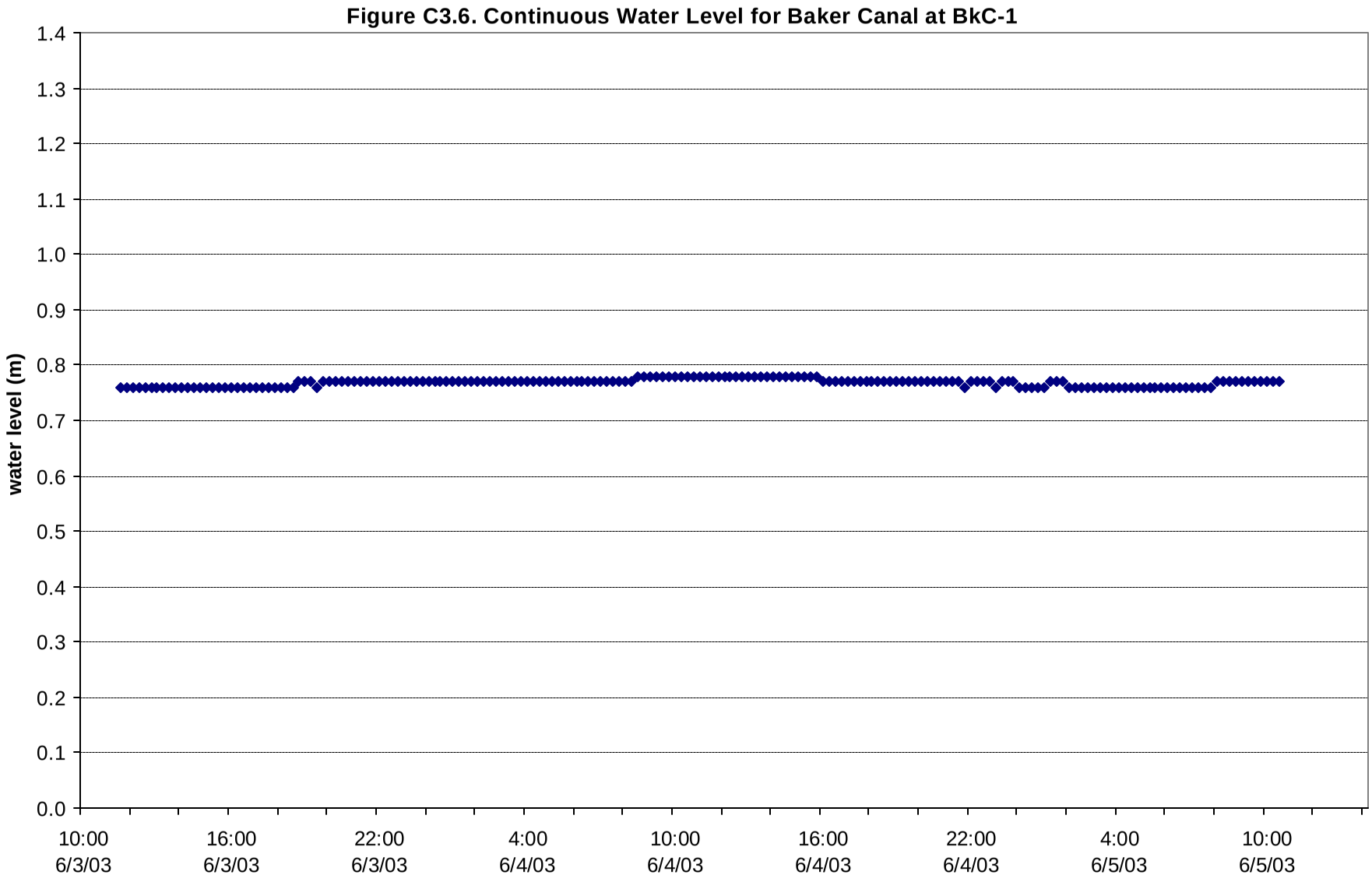


Figure C3.6. Continuous Water Level for Baker Canal at BkC-1
water level (m)
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
10:00 6/3/03
16:00 6/3/03
22:00 6/3/03
4:00 6/4/03
10:00 6/4/03
16:00 6/4/03
22:00 6/4/03
4:00 6/5/03
10:00 6/5/03

Figure C3.7. Continuous Temperature for Bayou Citamon at BCi-2

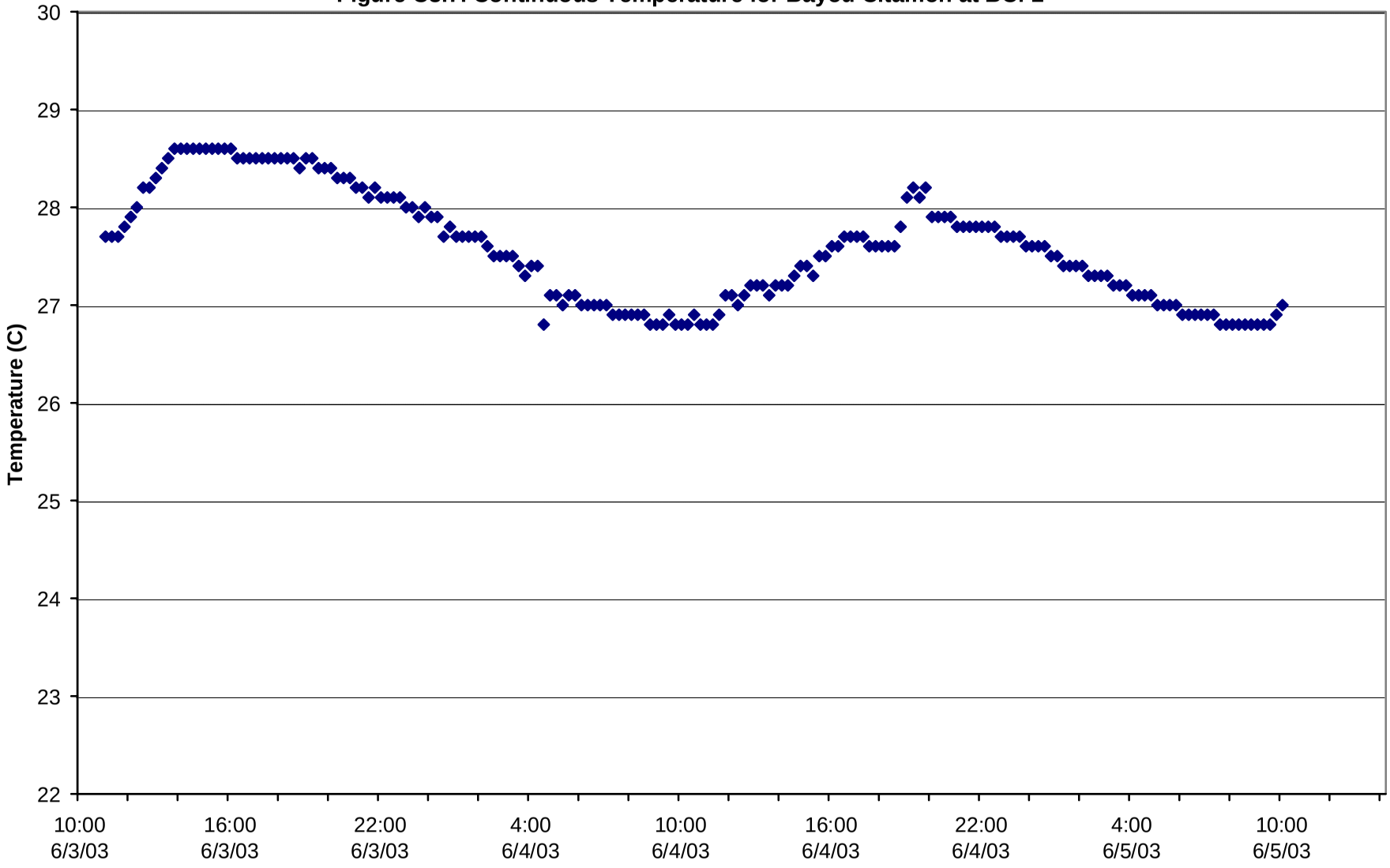


Figure C3.8. Continuous DO for Bayou Citamon at BCi-2

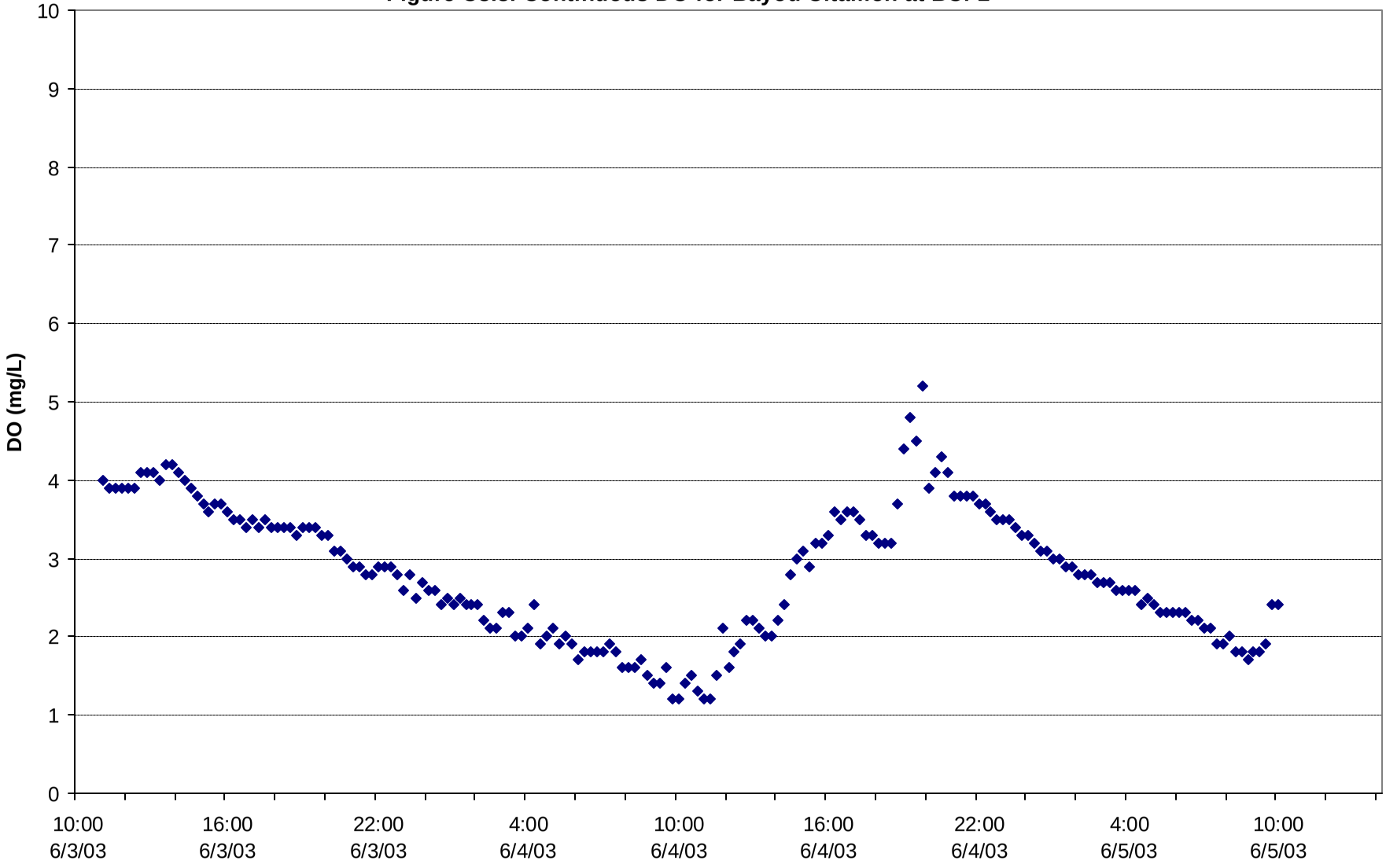


Figure C3.9. Continuous DO Percent Saturation for Bayou Citamon at BCi-2

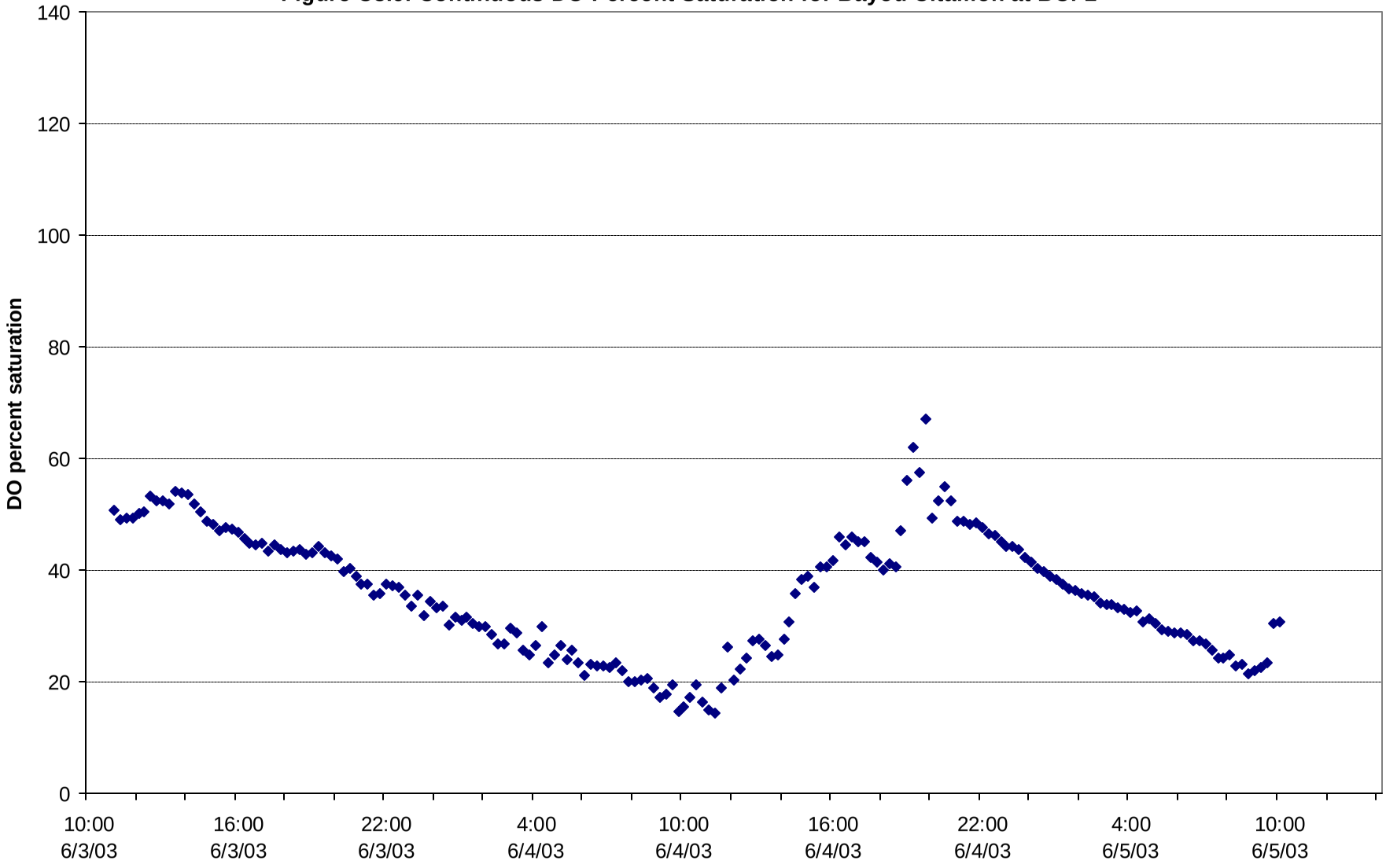


Figure C3.10. Continuous pH for Bayou Citamon at BCi-2

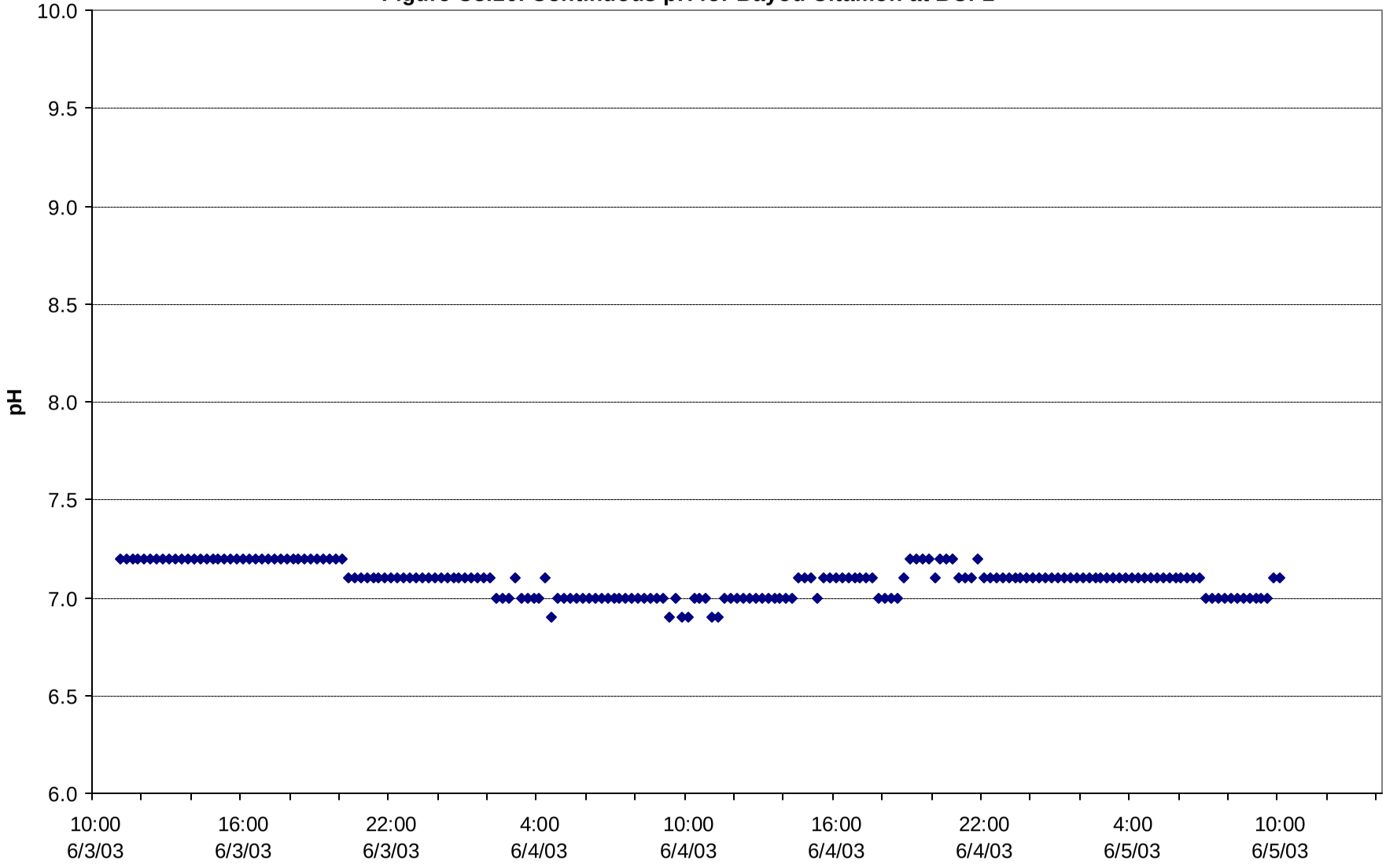


Figure C3.11. Continuous Specific Conductivity for Bayou Citamon at BCi-2

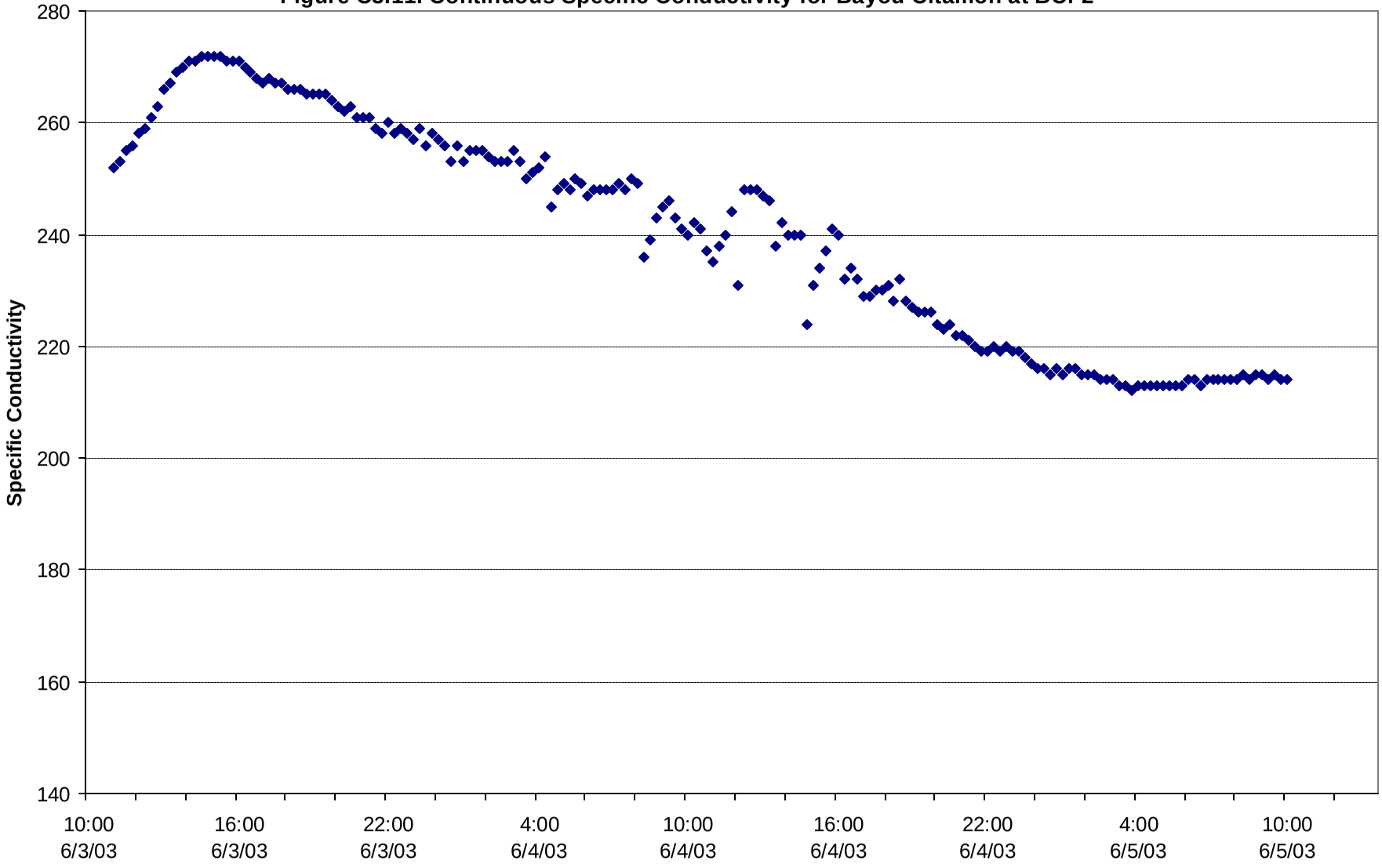


Figure C3.12. Continuous Temperature for Bayou Citamon at BCi-4

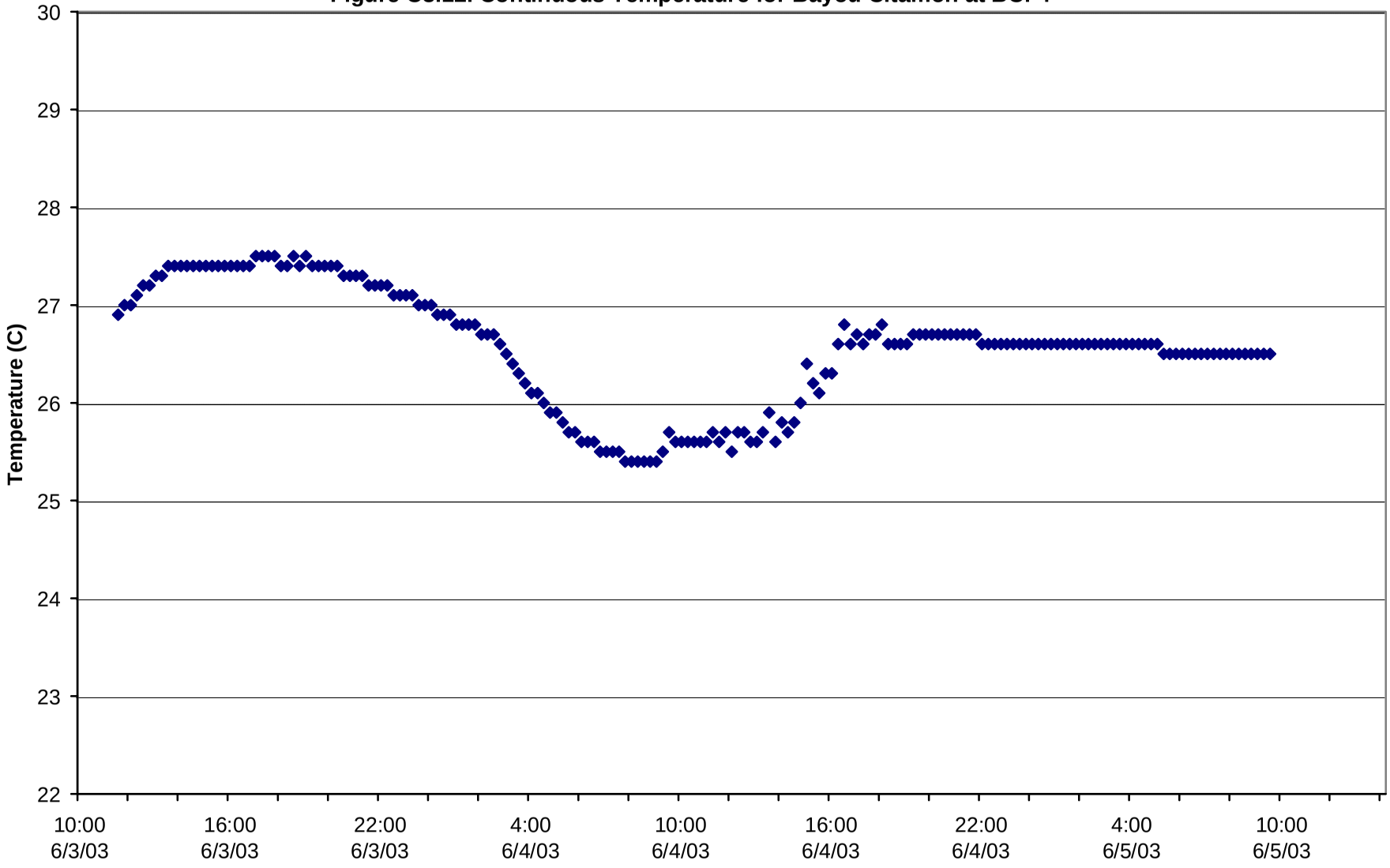


Figure 3.13. Continuous DO for Bayou Citamon at BCi-4

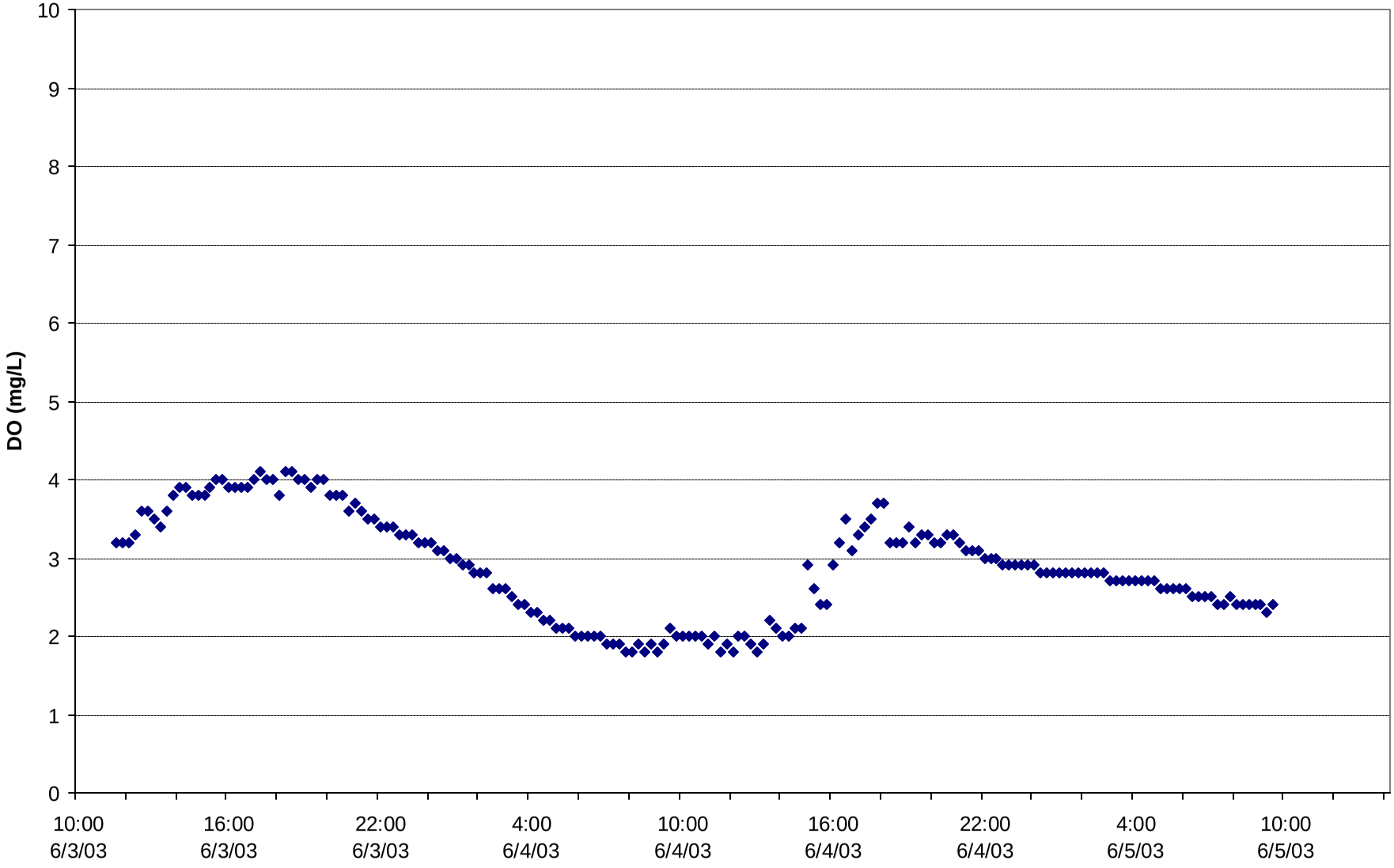


Figure C3.14. Continuous DO Percent Saturation for Bayou Citamon at BCi-4

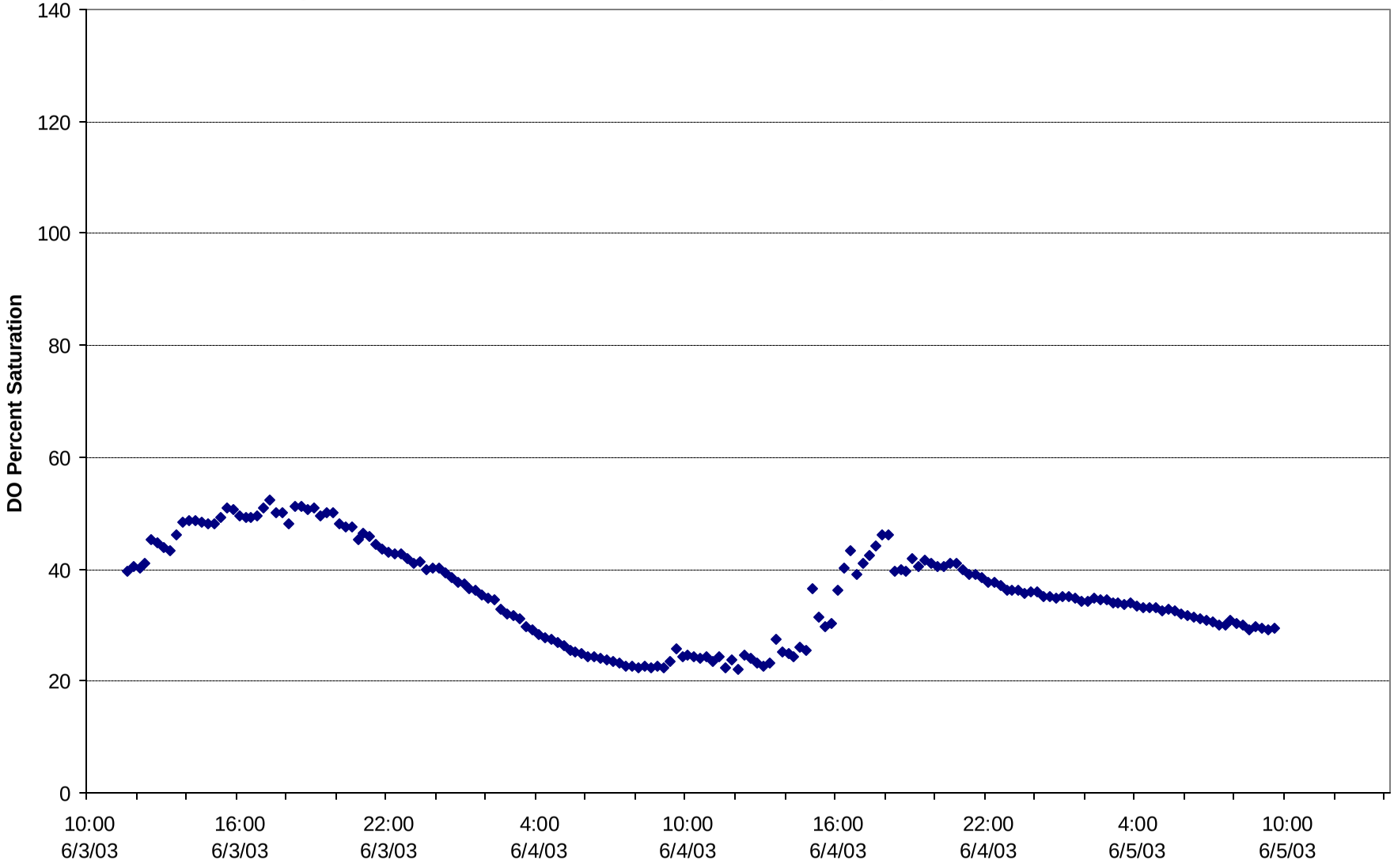


Figure C3.15. Continuous pH for Bayou Citamon at BCi-4

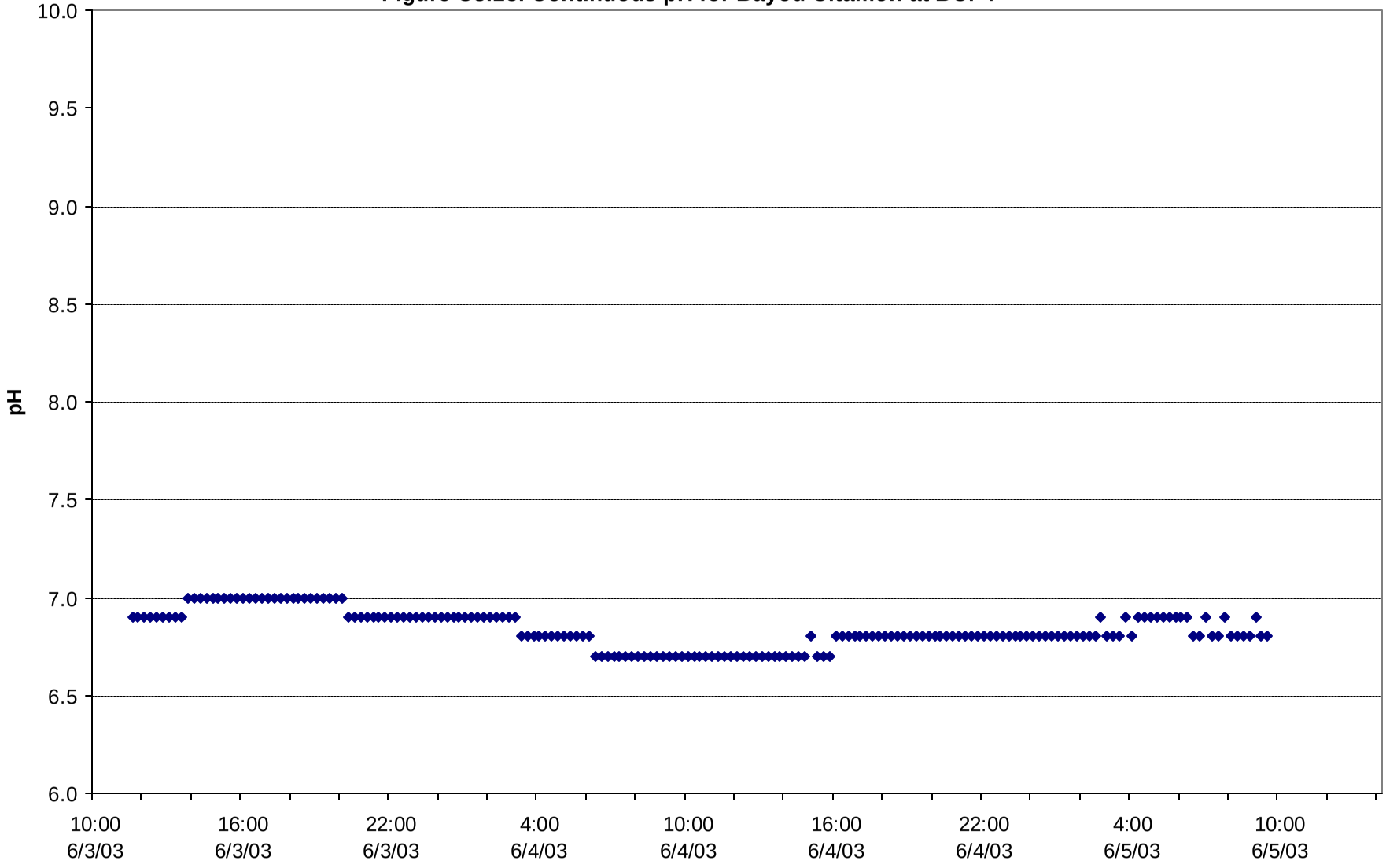


Figure C3.16. Continuous Specific Conductivity for Bayou Citamon at BCi-4

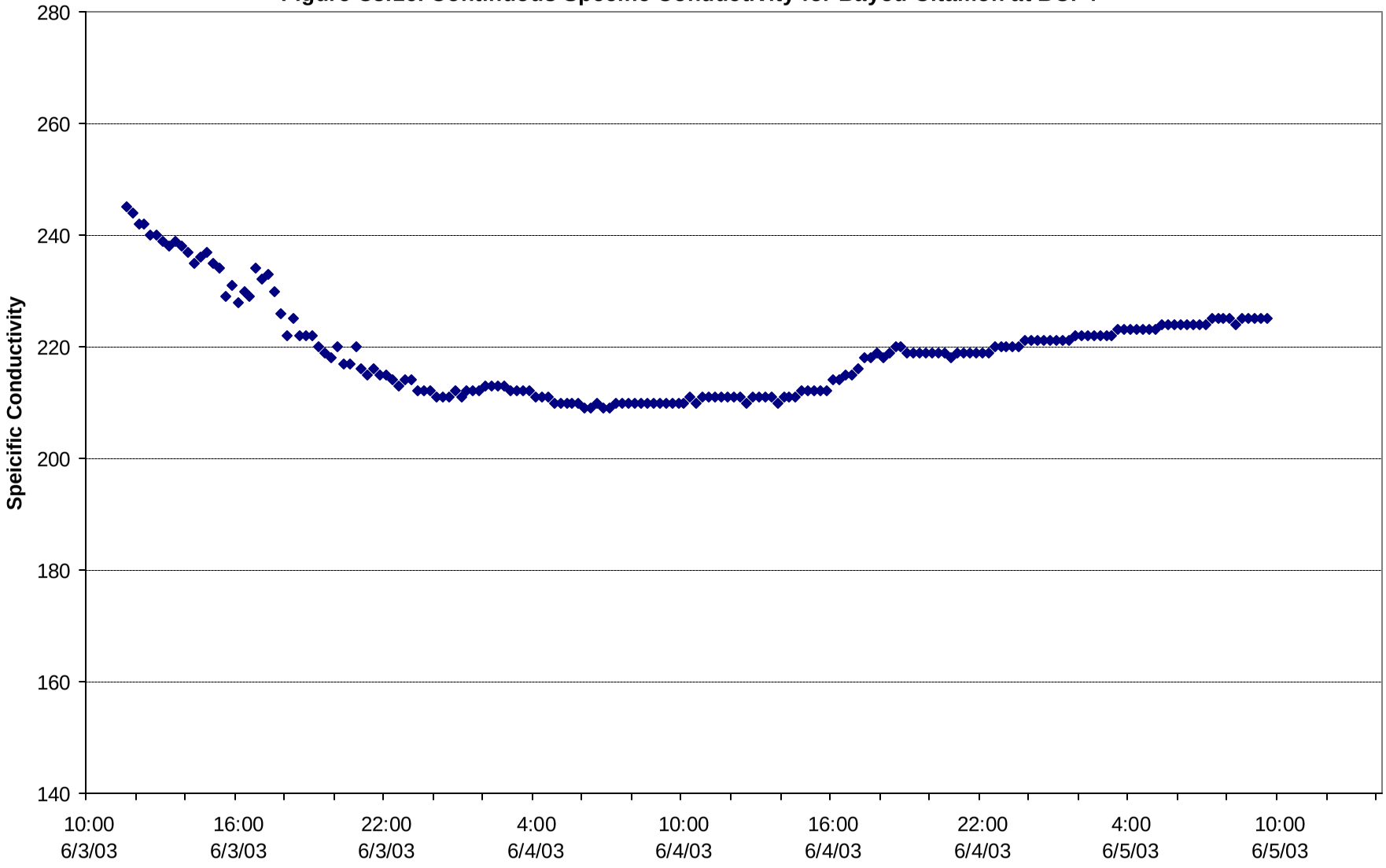


Figure C3.17. Continuous Temperature for Bayou Citamon at BCi-7

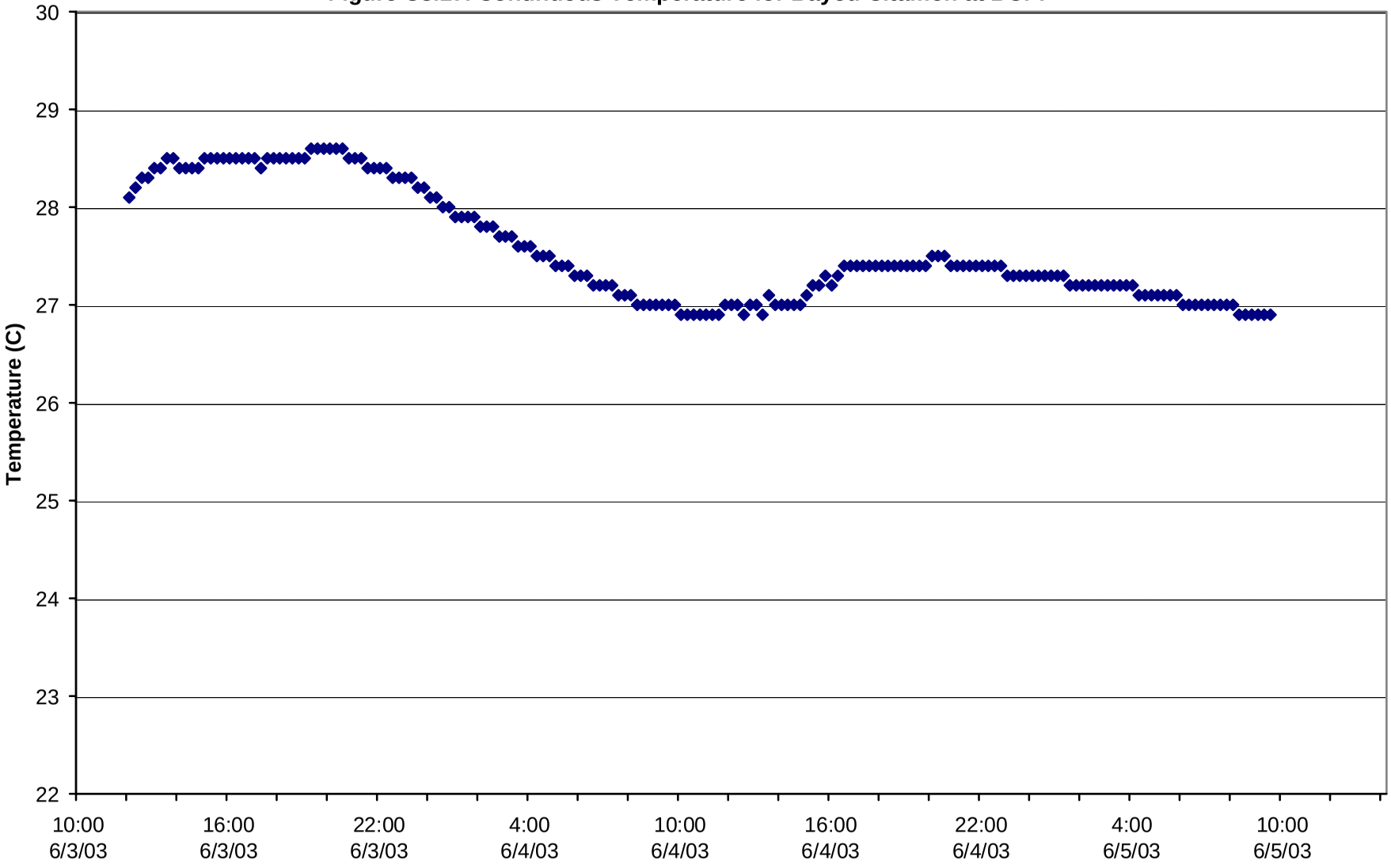


Figure C3.18. Continuous DO for Bayou Citamon at BCi-7

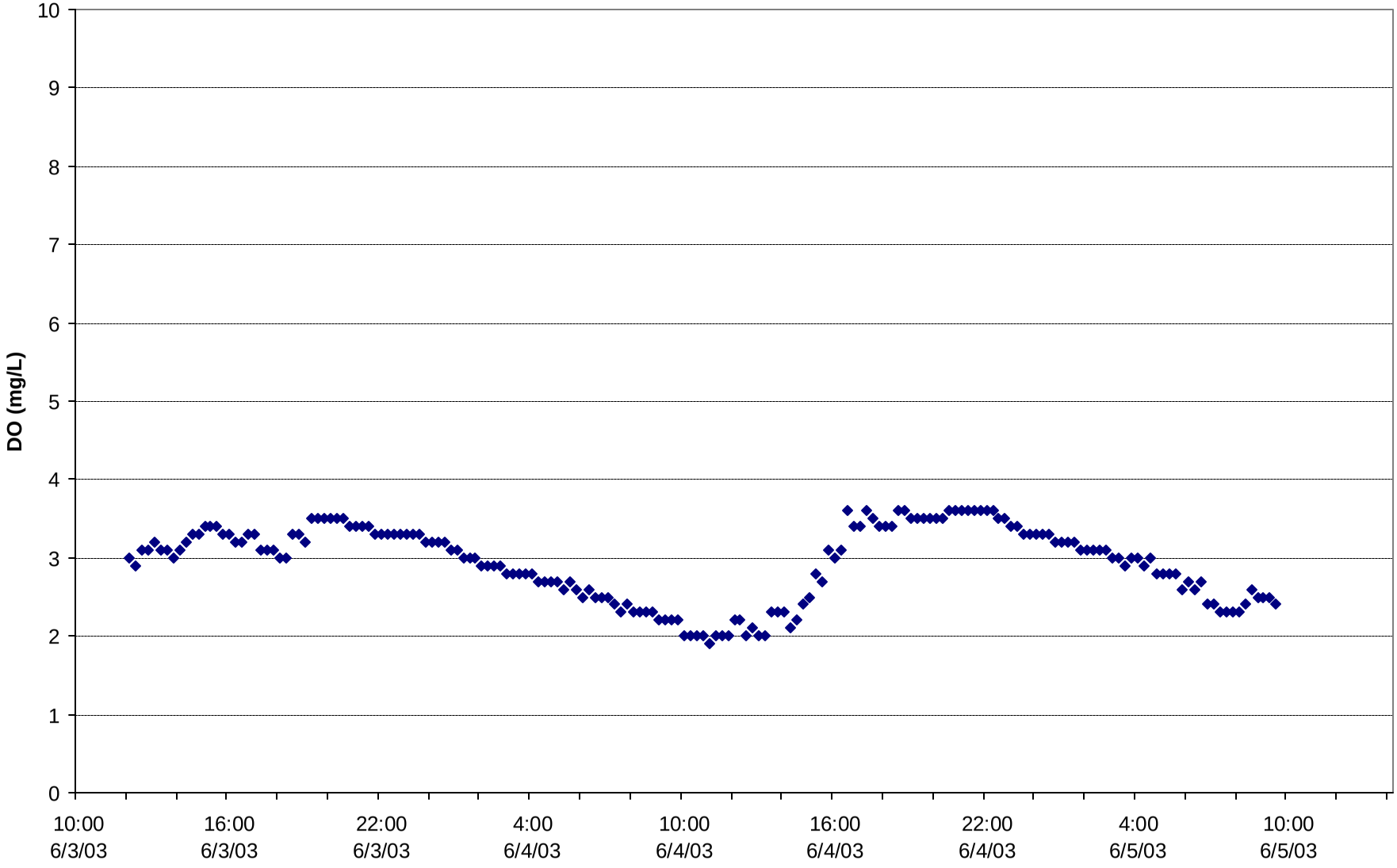


Figure C3.19. Continuous DO Percent Saturation for Bayou Citamon at BCi-7

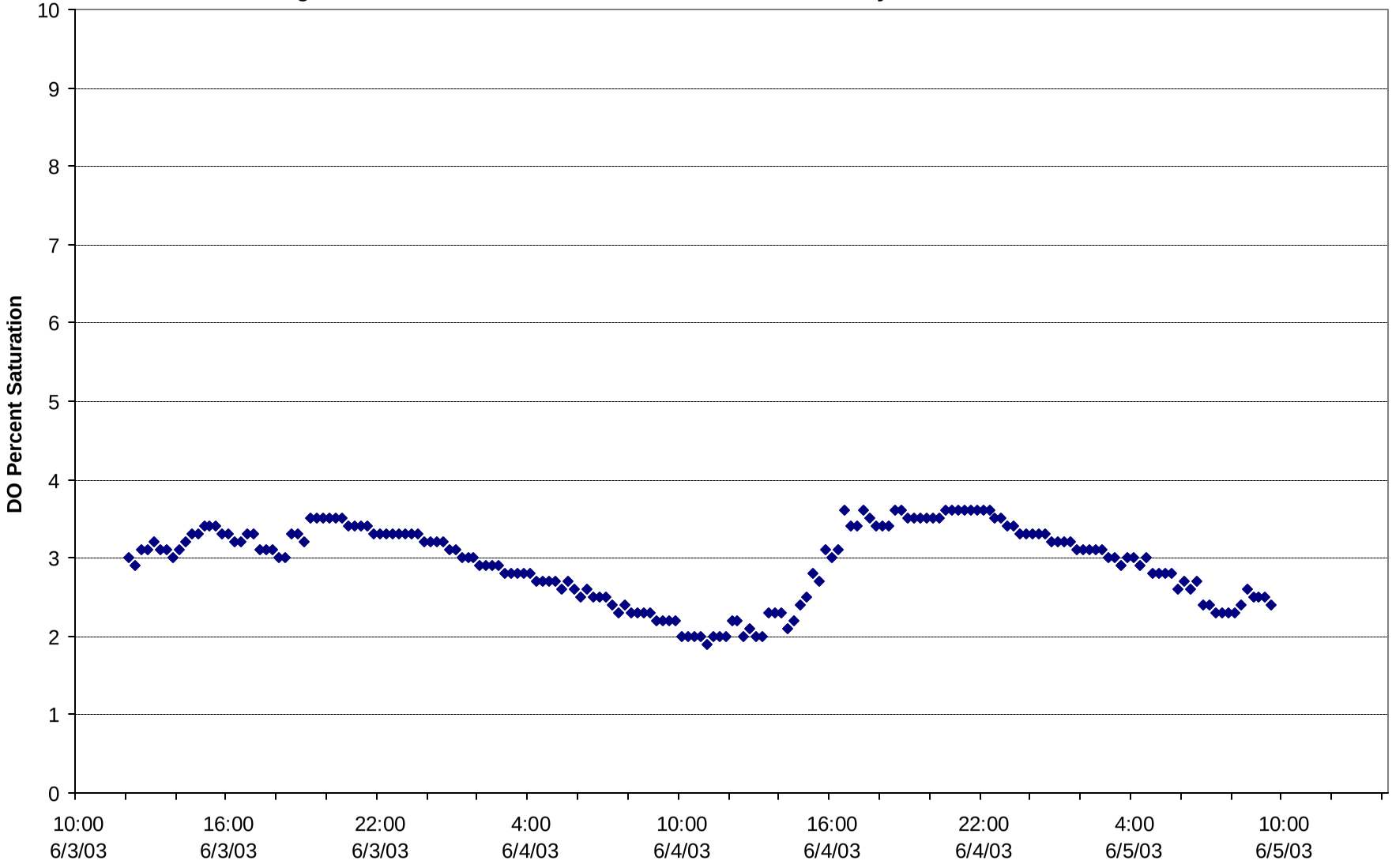


Figure C3.20. Continuous pH for Bayou Citamon at BCi-7

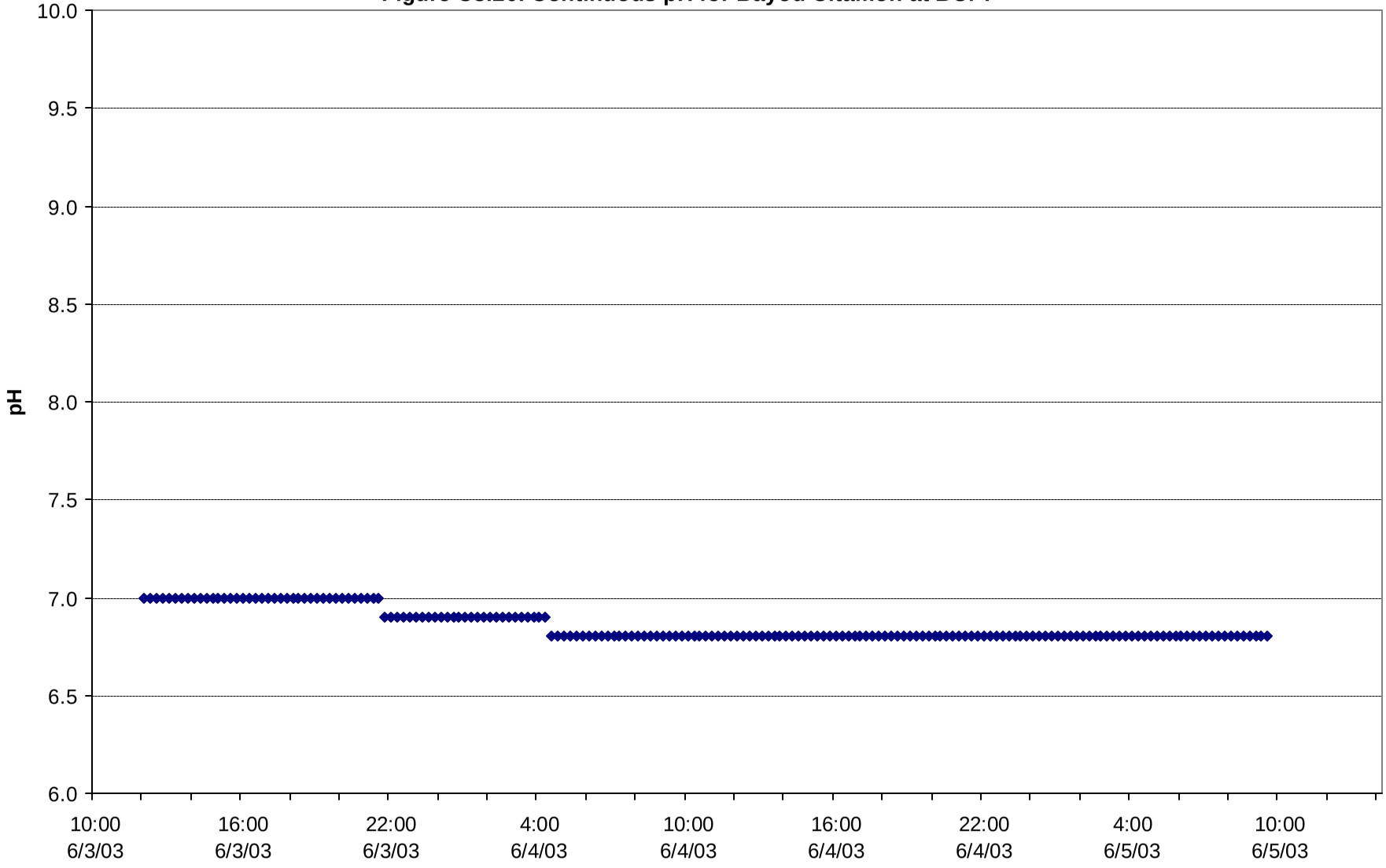


Figure C3.21. Continuous Specific Conductivity for Bayou Citamon at BCi-7

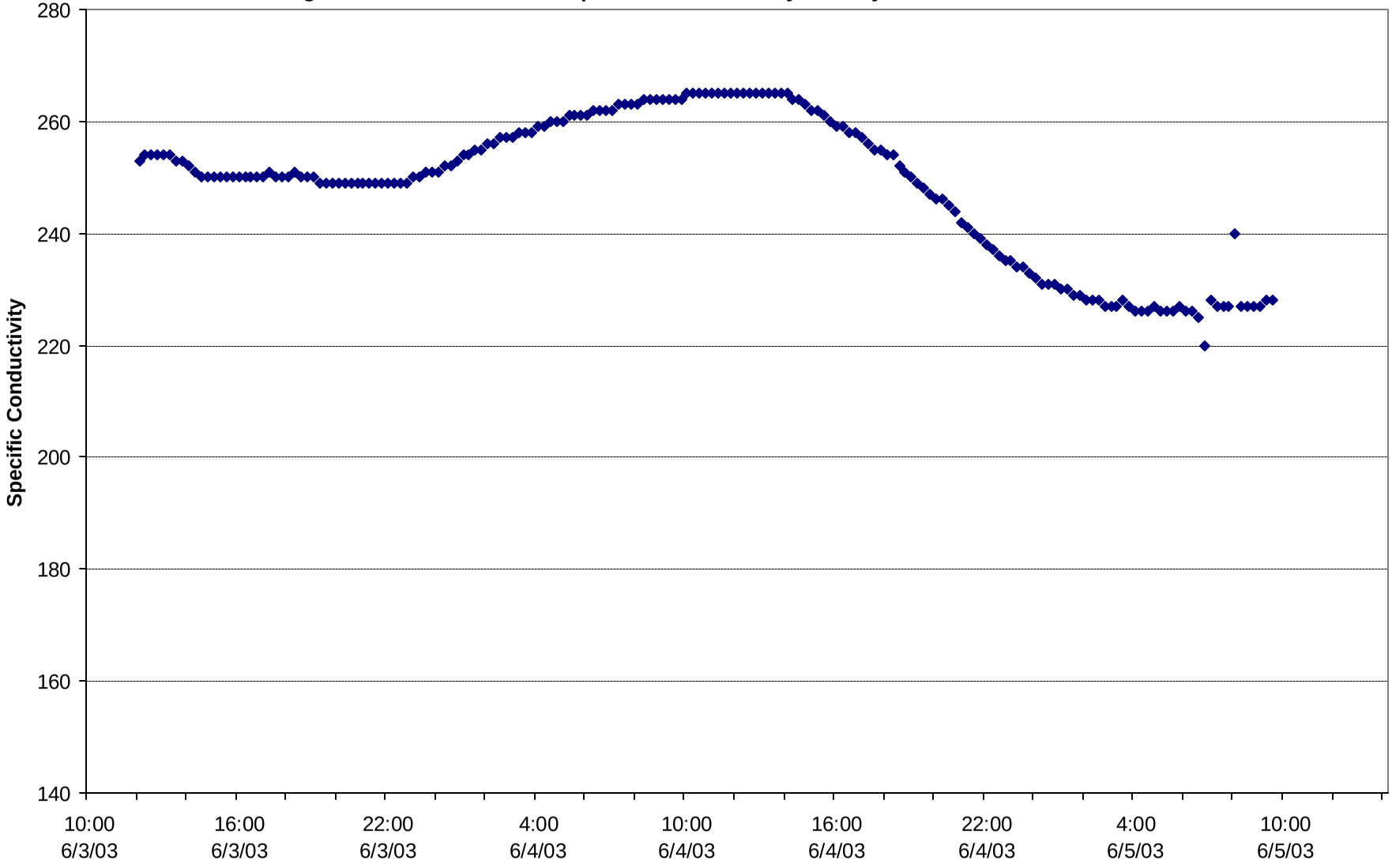


Figure C3.22. Continuous Temperature for Bayou Chevreuil at BCh-2

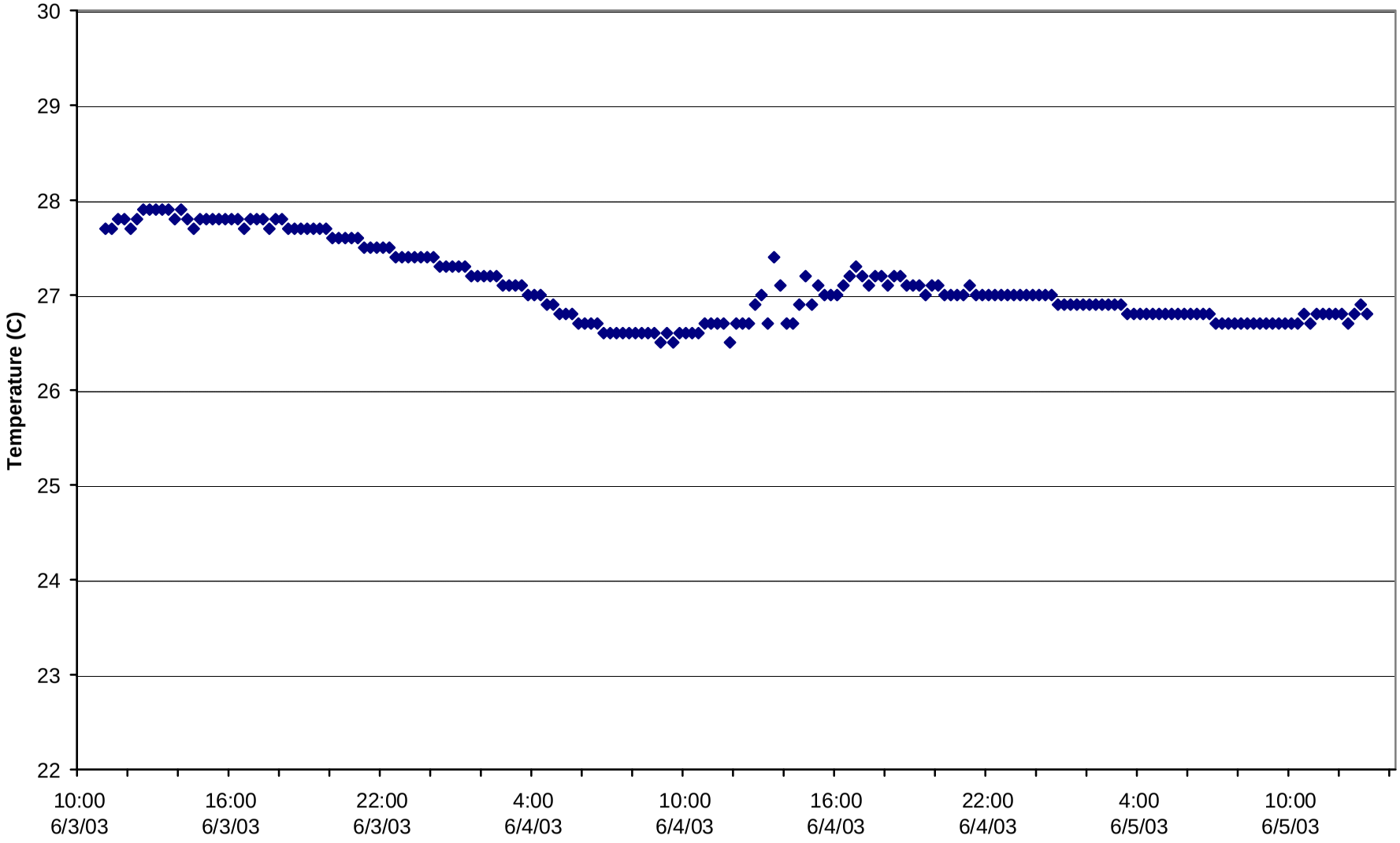


Figure C3.23. Continuous DO for Bayou Chevreuil at BCh-2

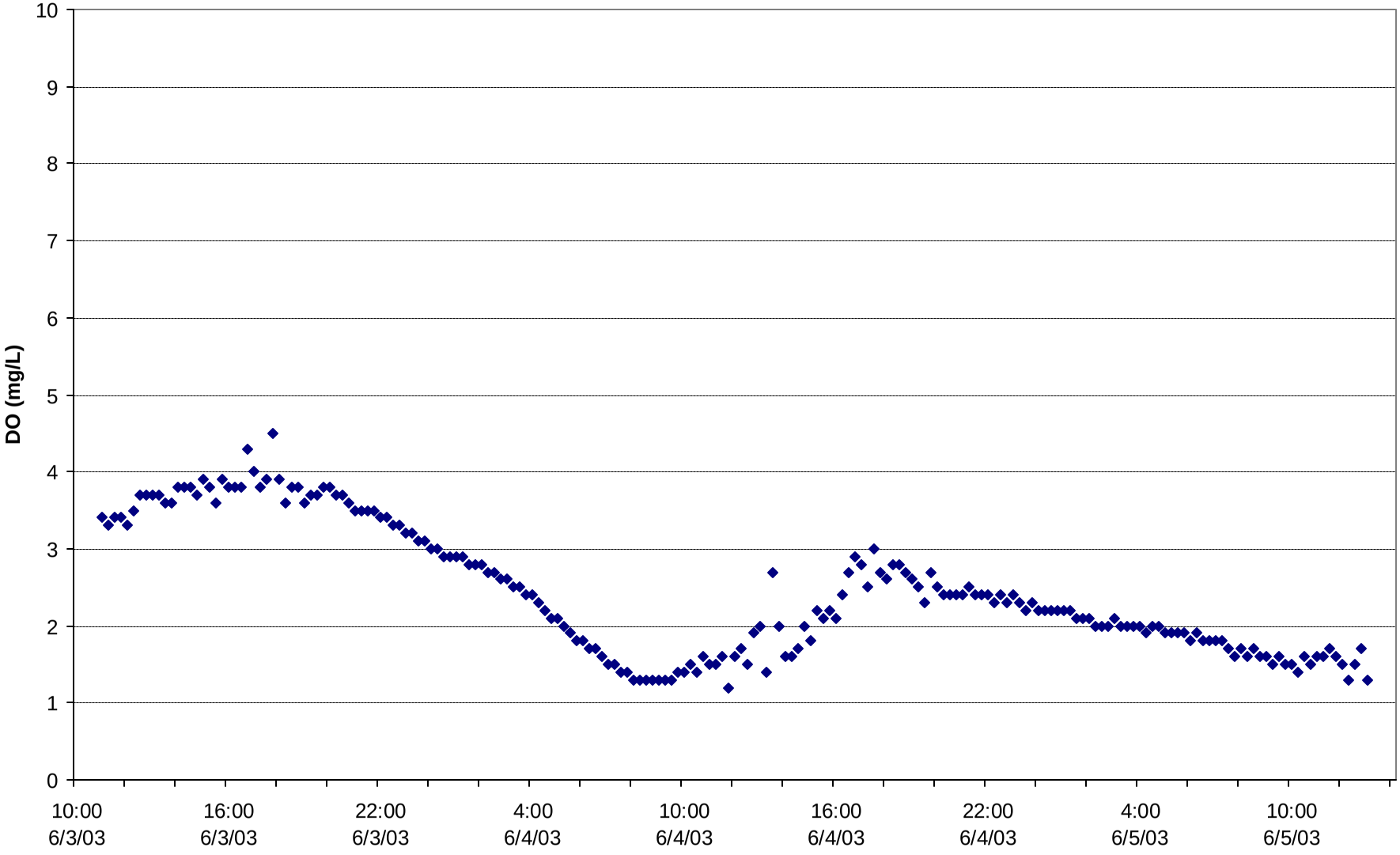
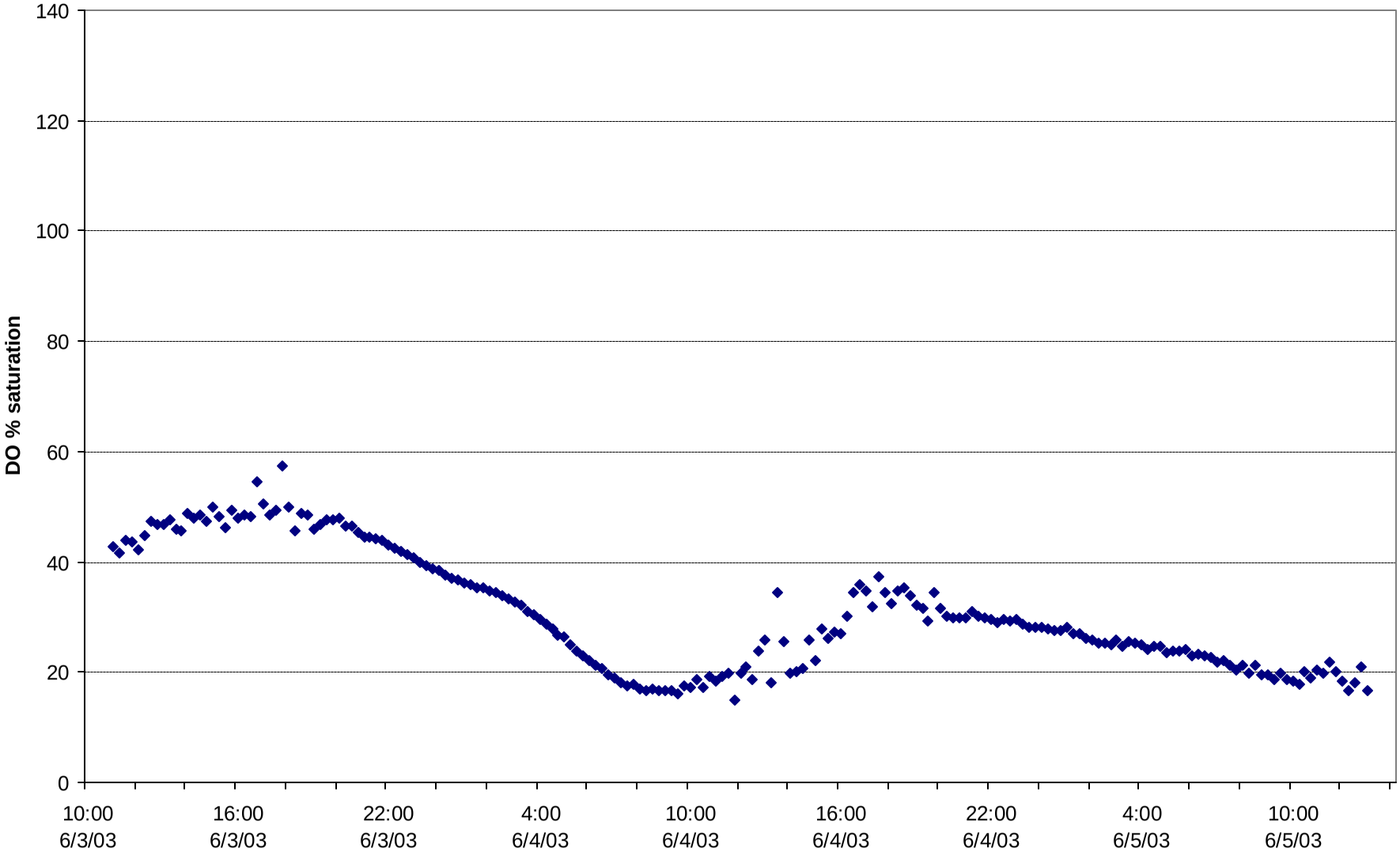


Figure C3.24. Continuous DO Percent Saturation for Bayou Chevreuil at BCh-2



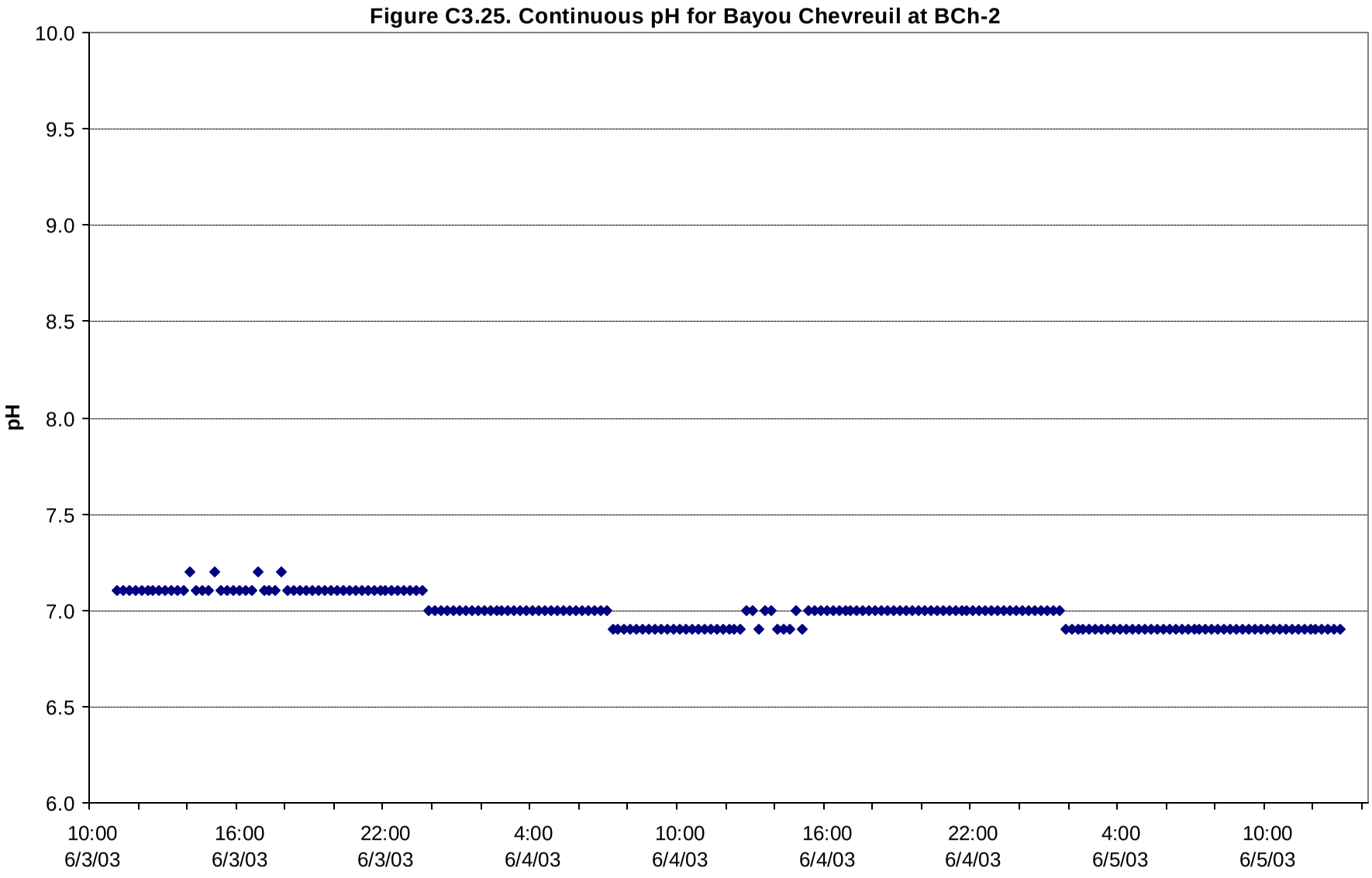


Figure C3.25. Continuous pH for Bayou Chevreuil at BCh-2
pH
10.0
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
10:00 6/3/03
16:00 6/3/03
22:00 6/3/03
4:00 6/4/03
10:00 6/4/03
16:00 6/4/03
22:00 6/4/03
4:00 6/5/03
10:00 6/5/03

Figure C3.26. Continuous Specific Conductivity for Bayou Chevreuil at BCh-2

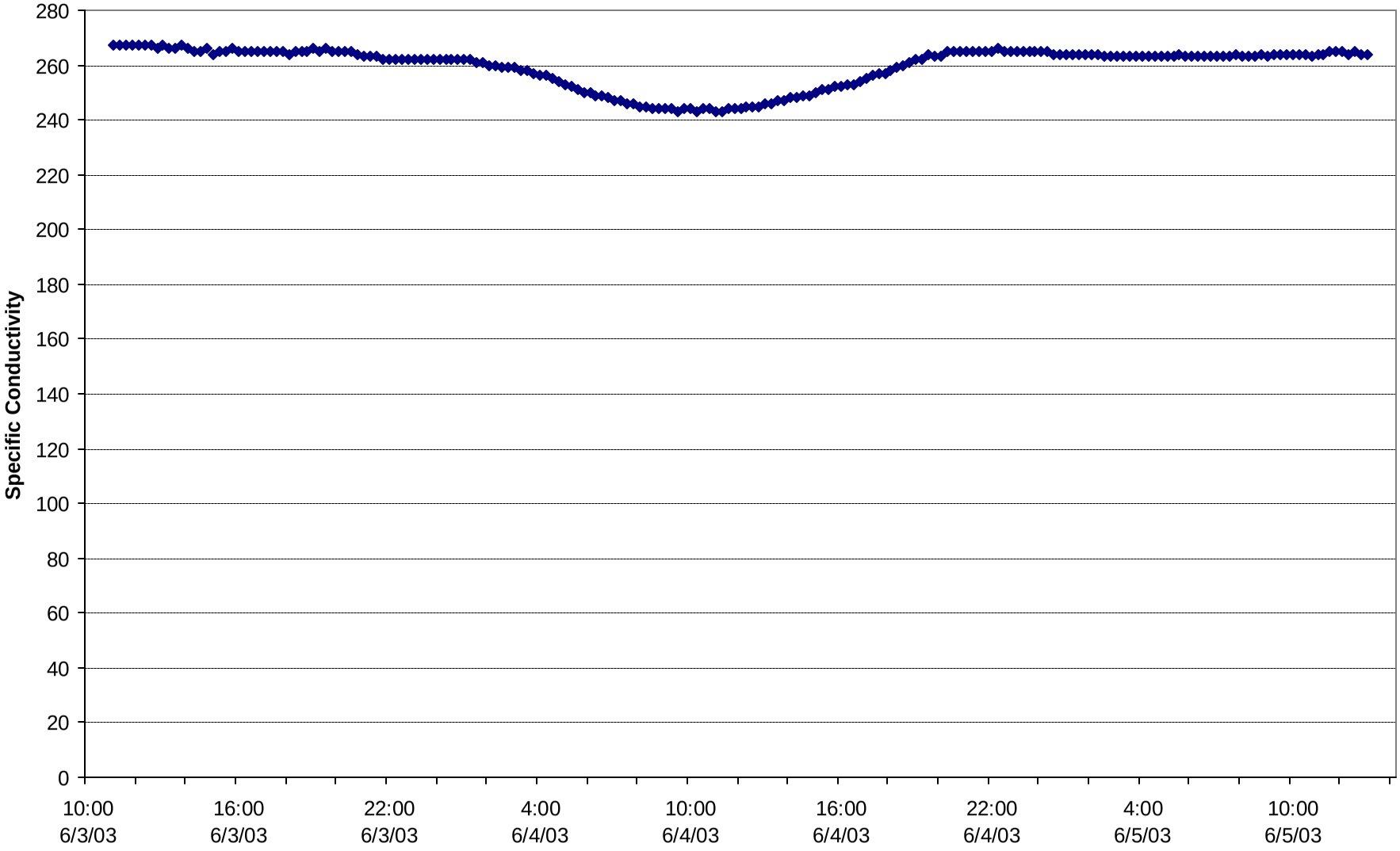


Figure C3.27. Continuous Temperature for Bayou Chevreuil at BCh-4

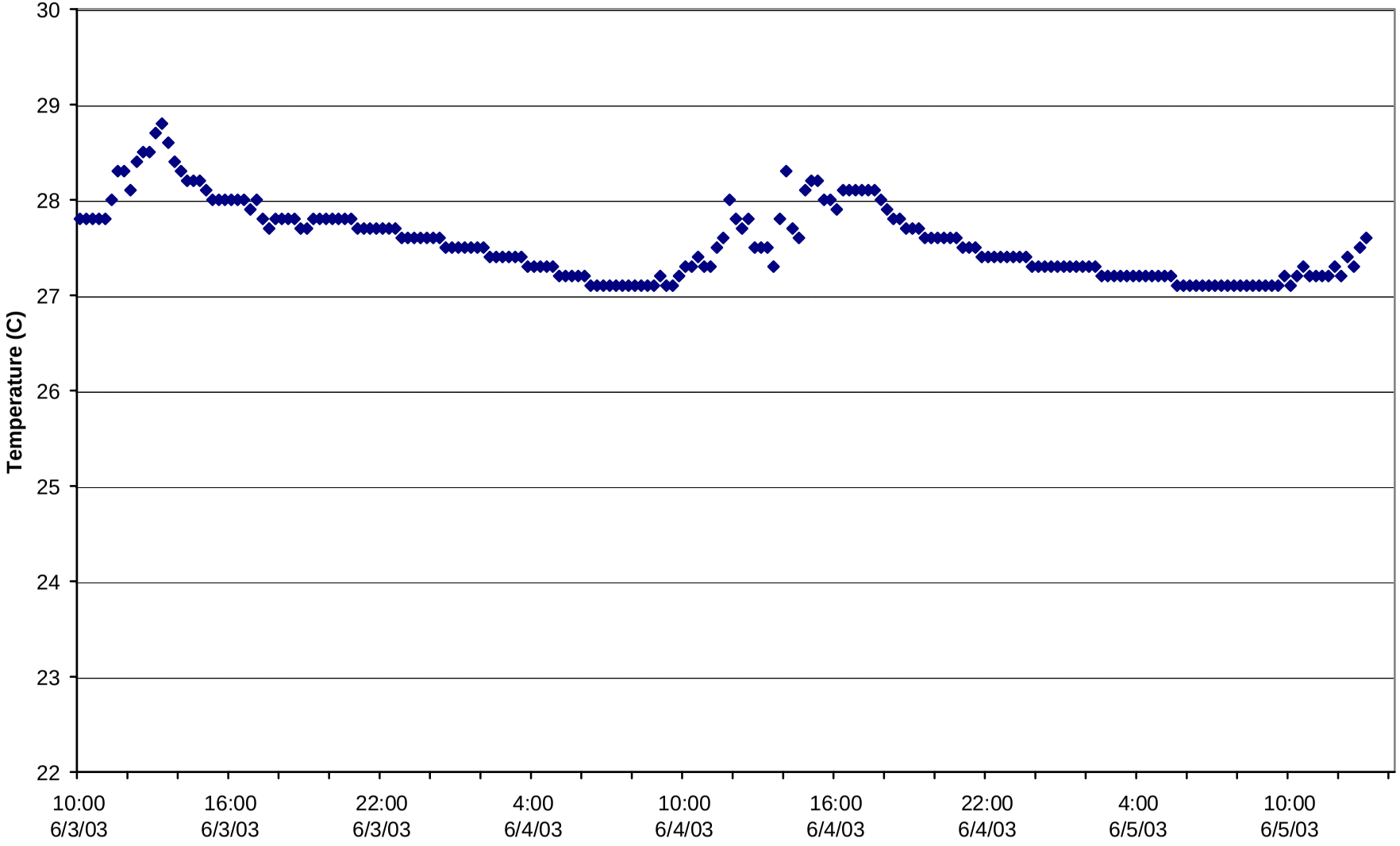


Figure C3.28. Continuous DO for Bayou Chevreuil at BCh-4

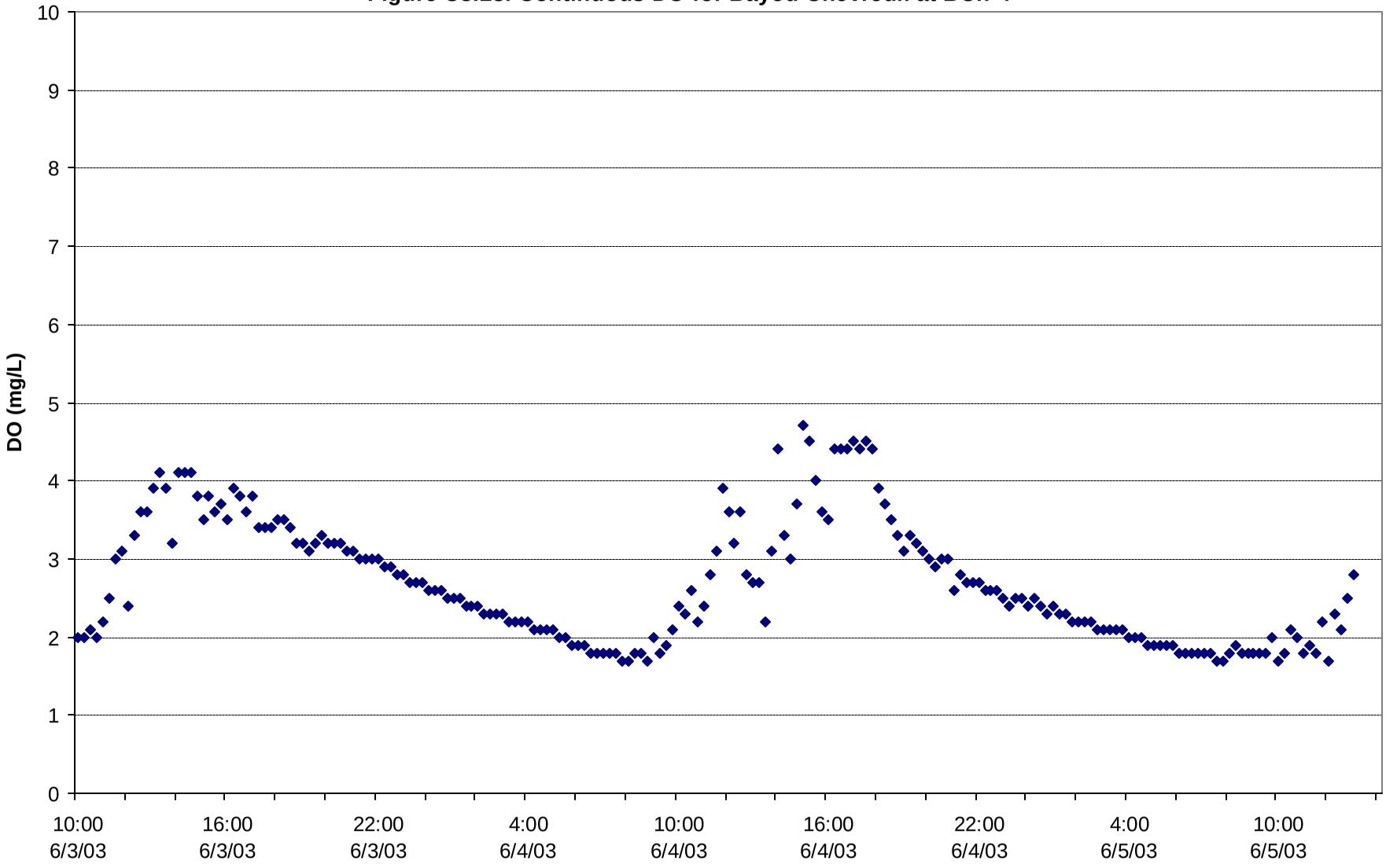


Figure C3.29. Continuous DO Percent Saturation Bayou Chevreuil at BCh-4

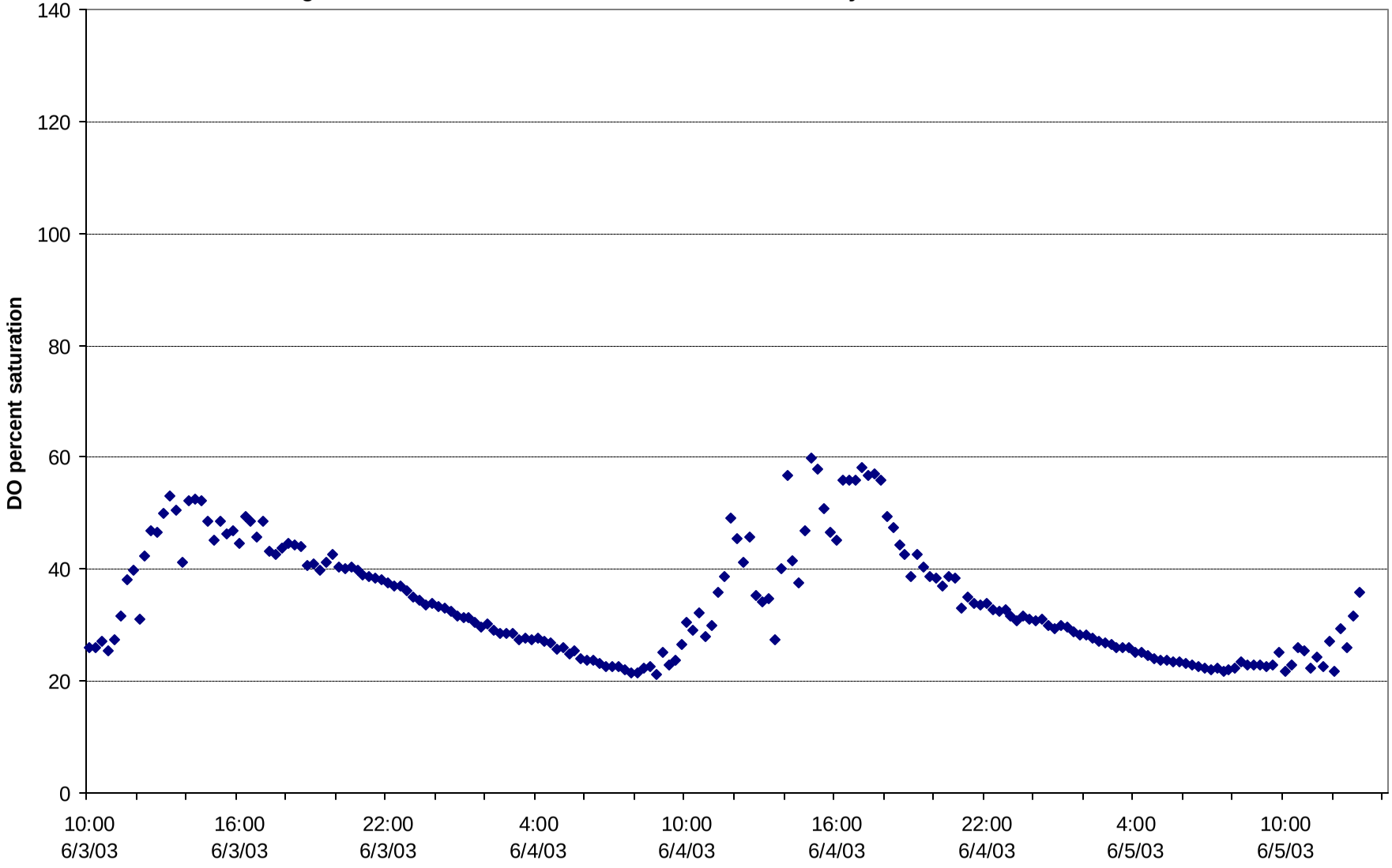


Figure C3.30. Continuous pH for Bayou Chevreuil at BCh-4

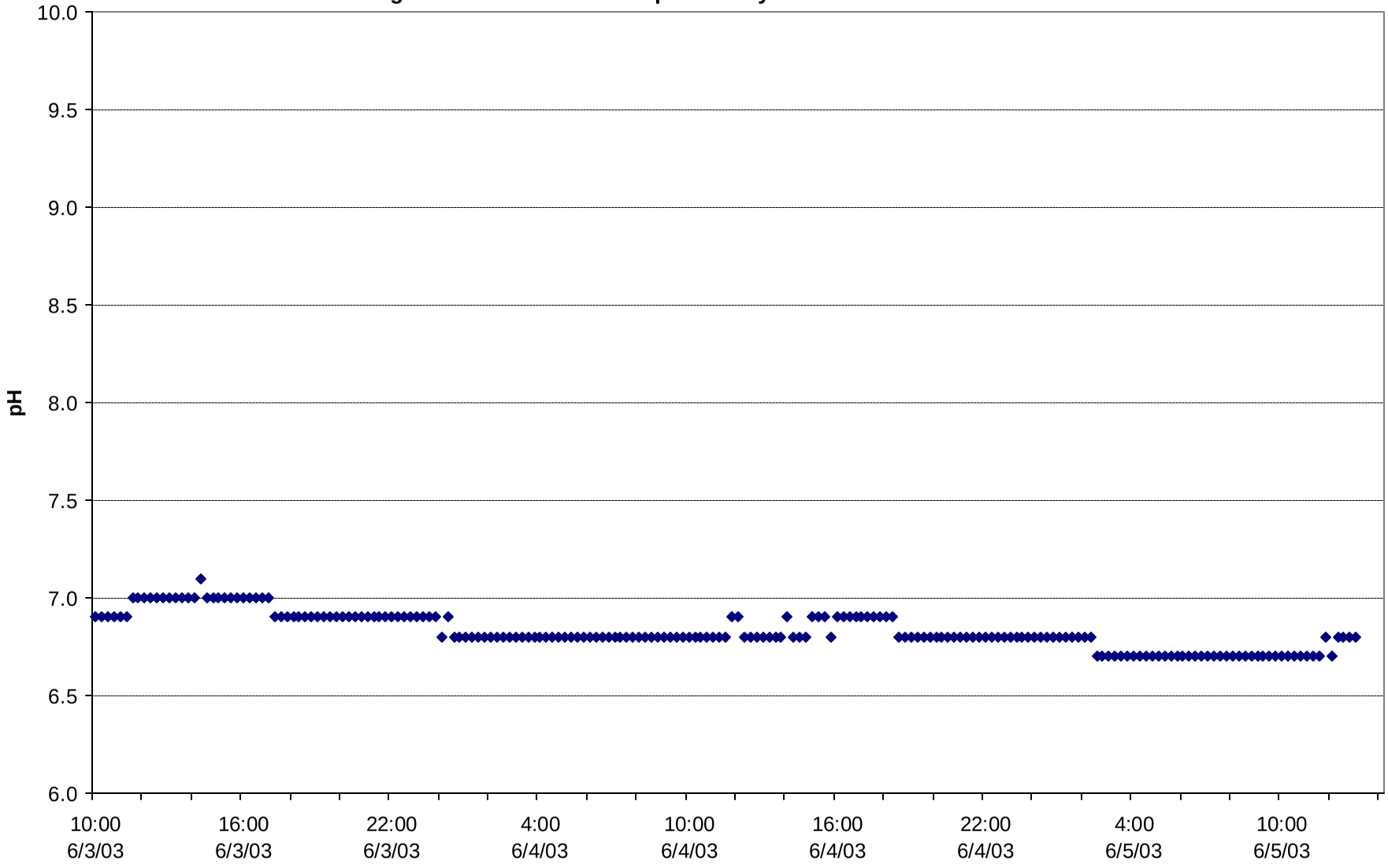


Figure C3.31. Continuous Specific Conductivity for Bayou Chevreuil at BCh-4

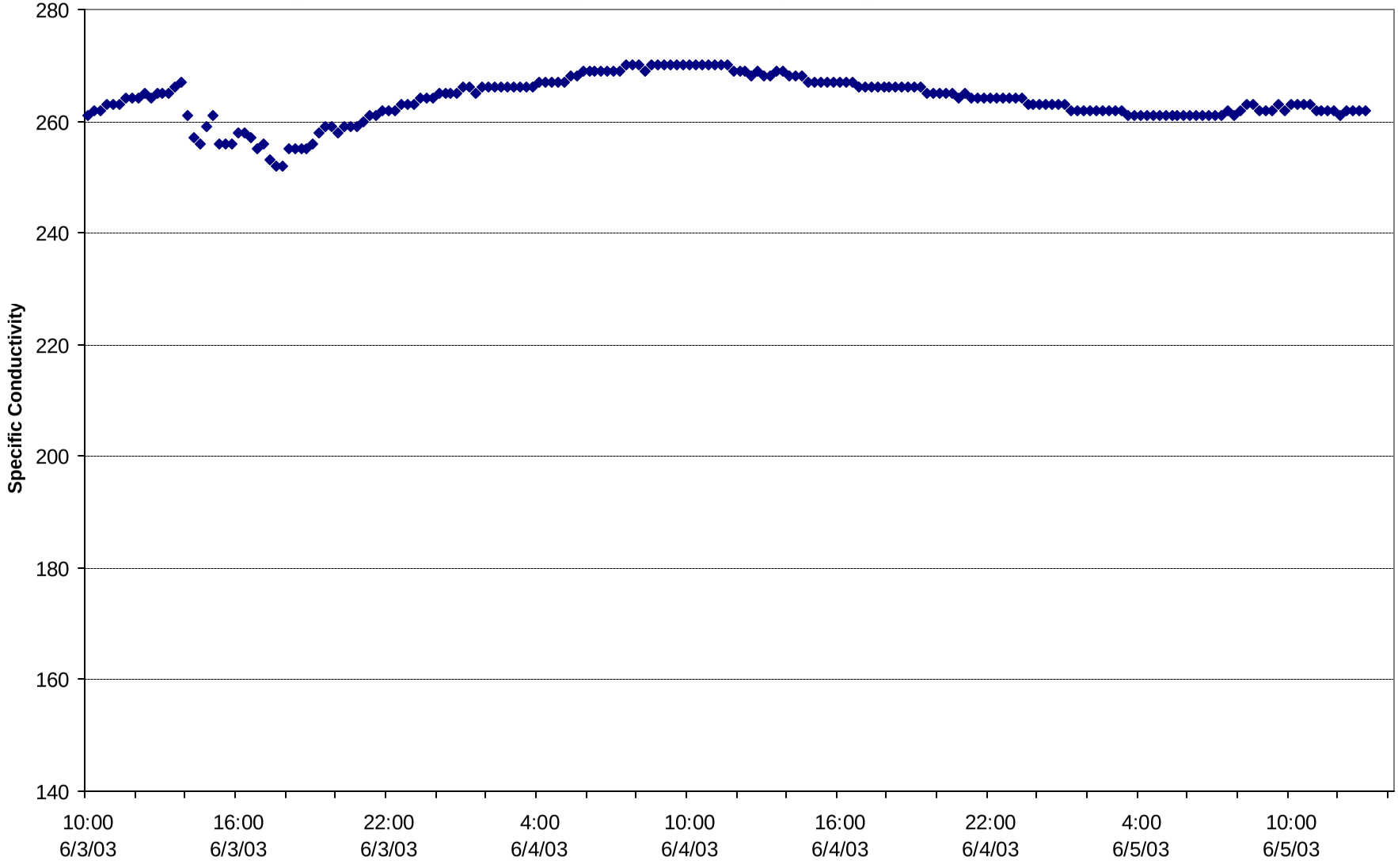


Figure C3.32. Continuous Temperature for Bayou Chevreuil at BCh-6

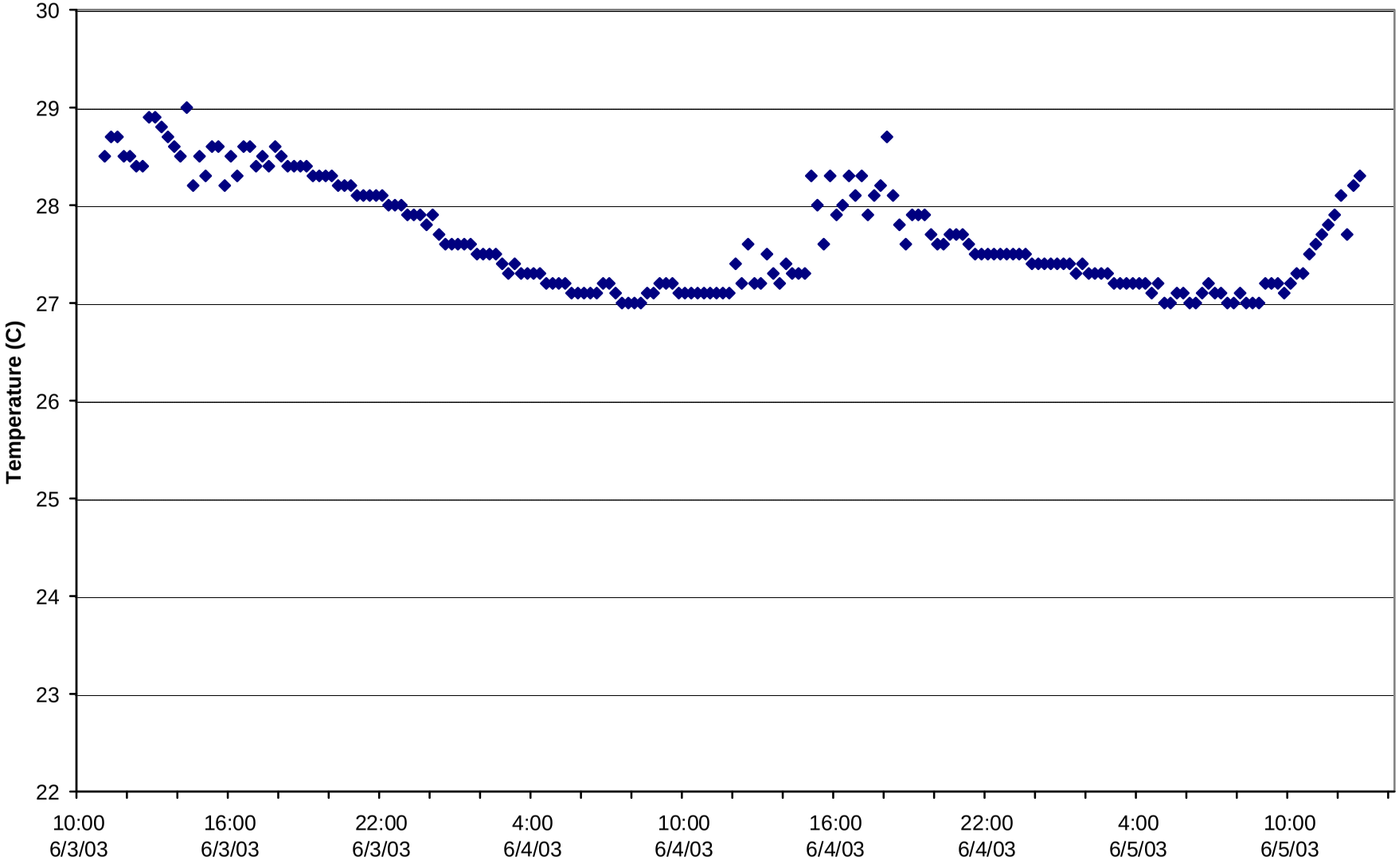


Figure C3.33. Continuous DO for Bayou Chevreuil at BCh-6

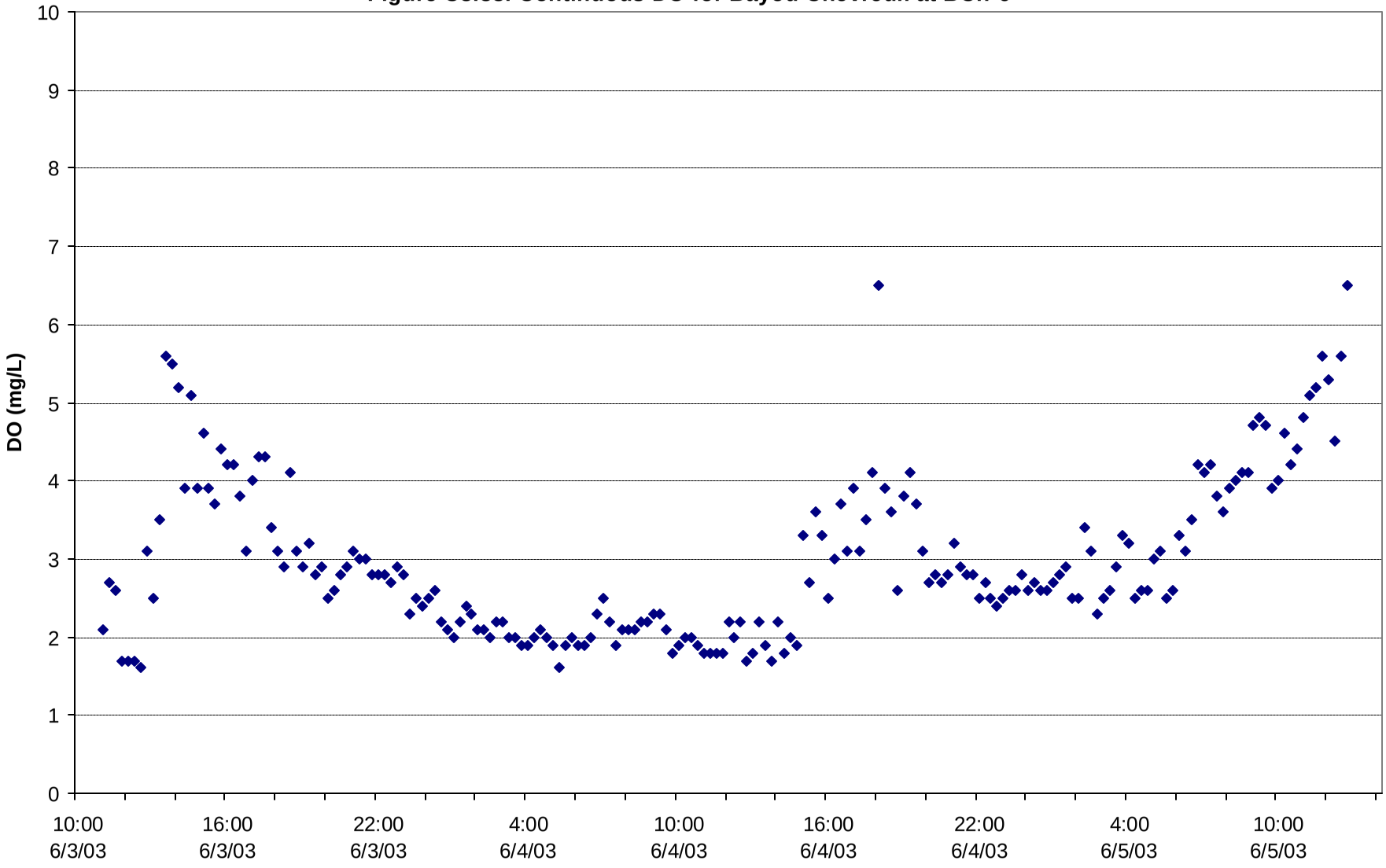


Figure C3.34. Continuous DO Percent Saturation for Bayou Chevreuil at BCh-6

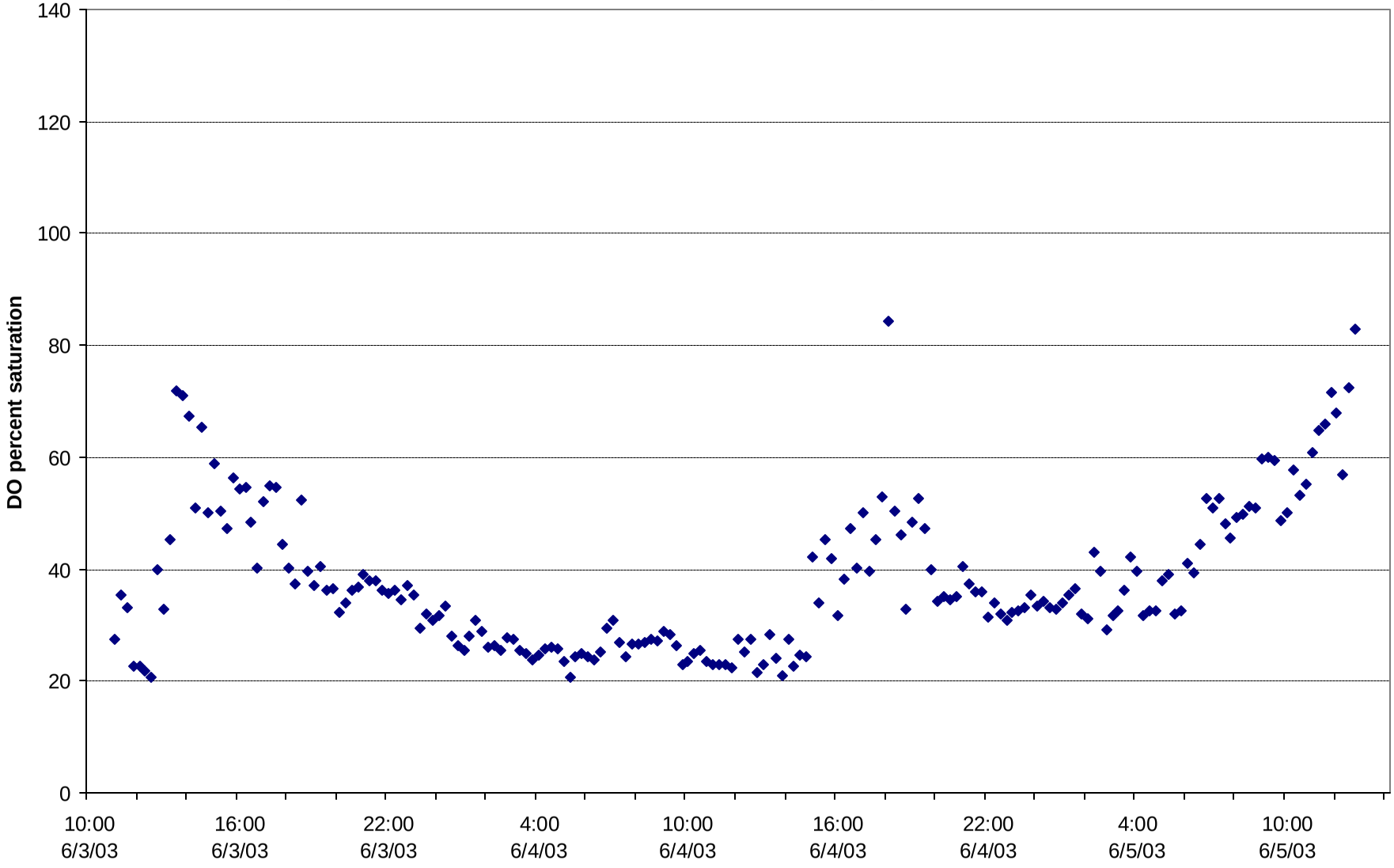


Figure C3.35. Continuous pH for Bayou Chevreuil at BCh-6

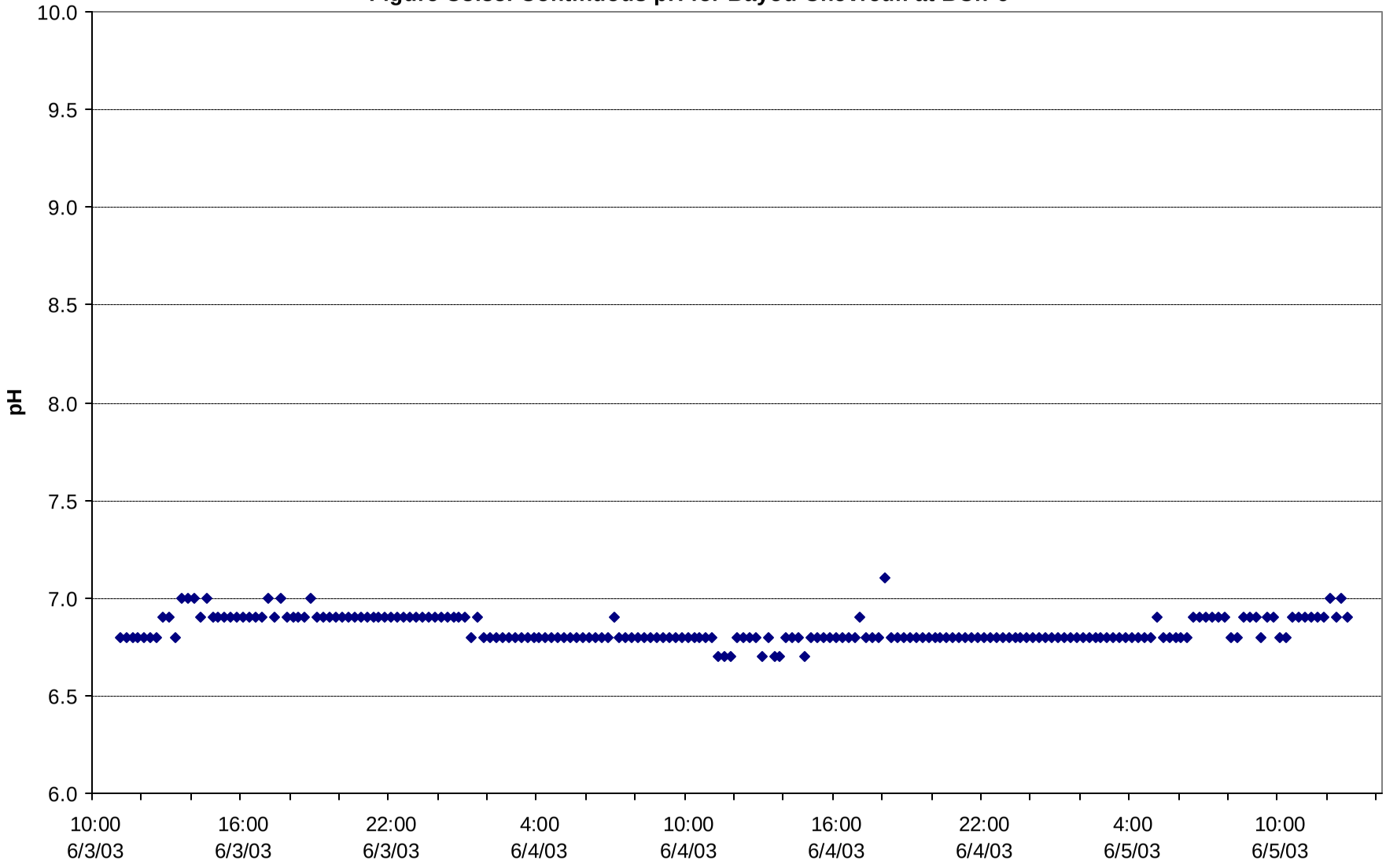


Figure C3.36. Continuous Specific Conductivity for Bayou Chevreuil at BCh-6

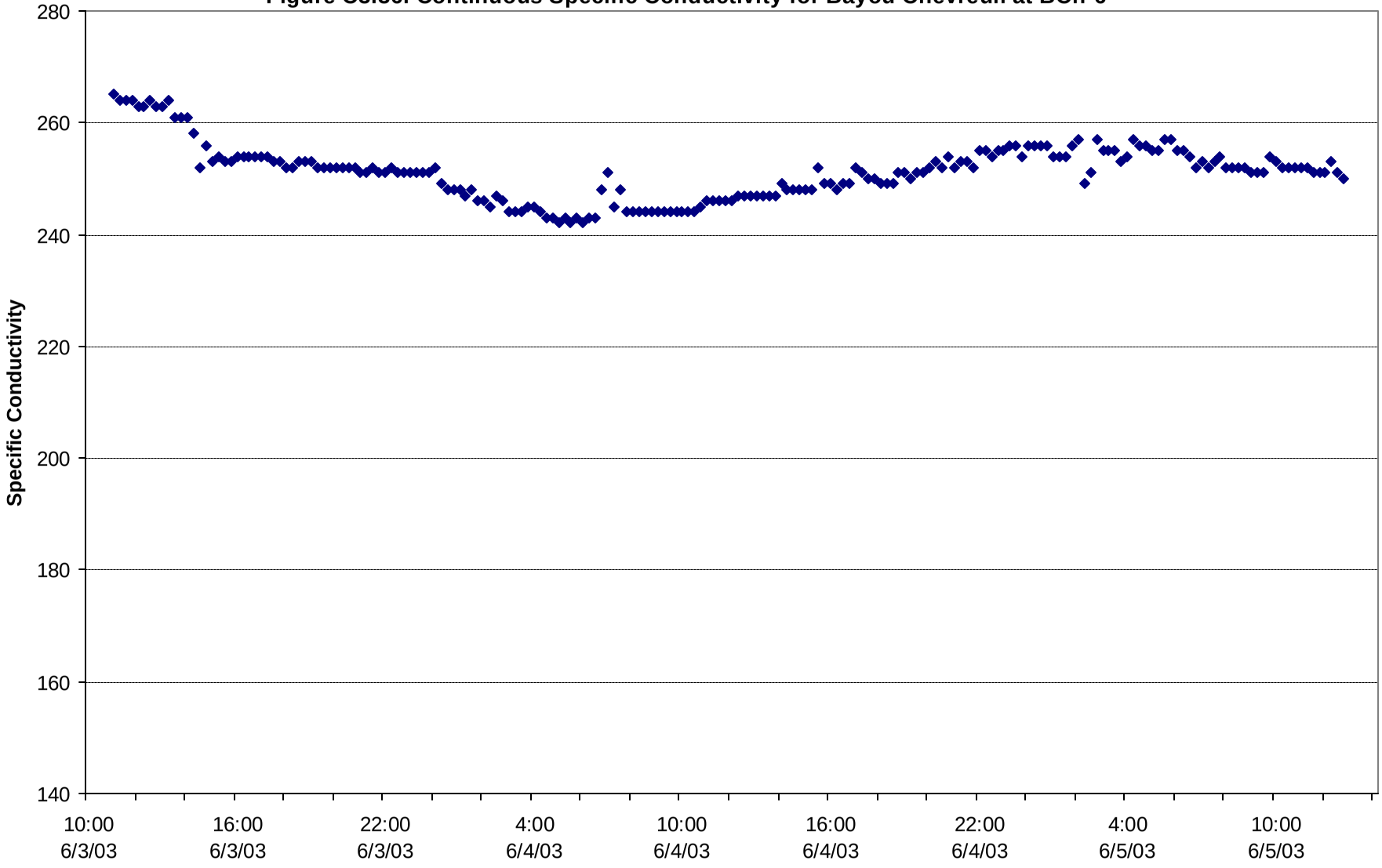


Figure C3.37. Continuous Water Depth for Bayou Chevreuil at BCh-6

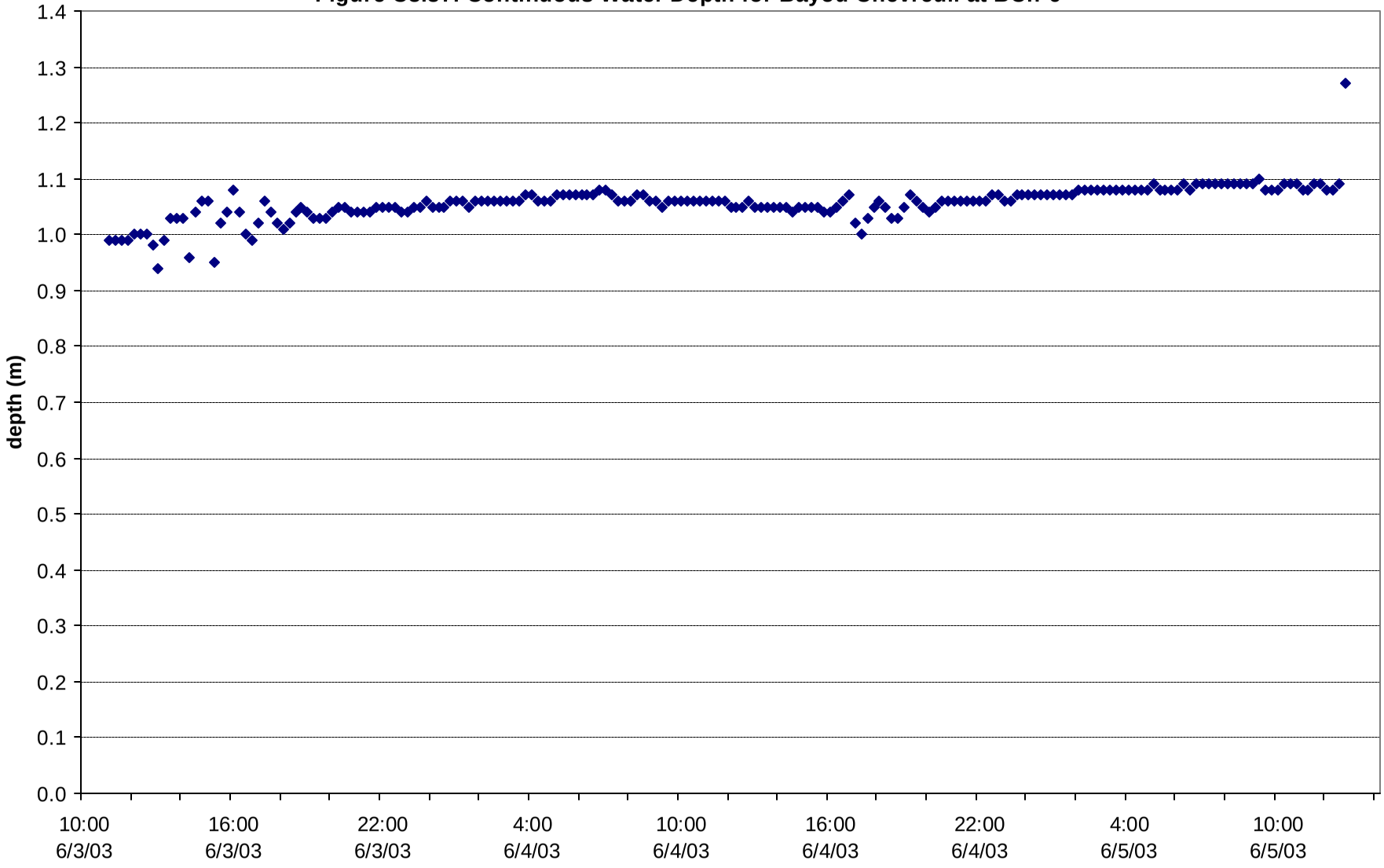


Figure C3.38. Continuous Temperature for Bayou Verret at BV-1

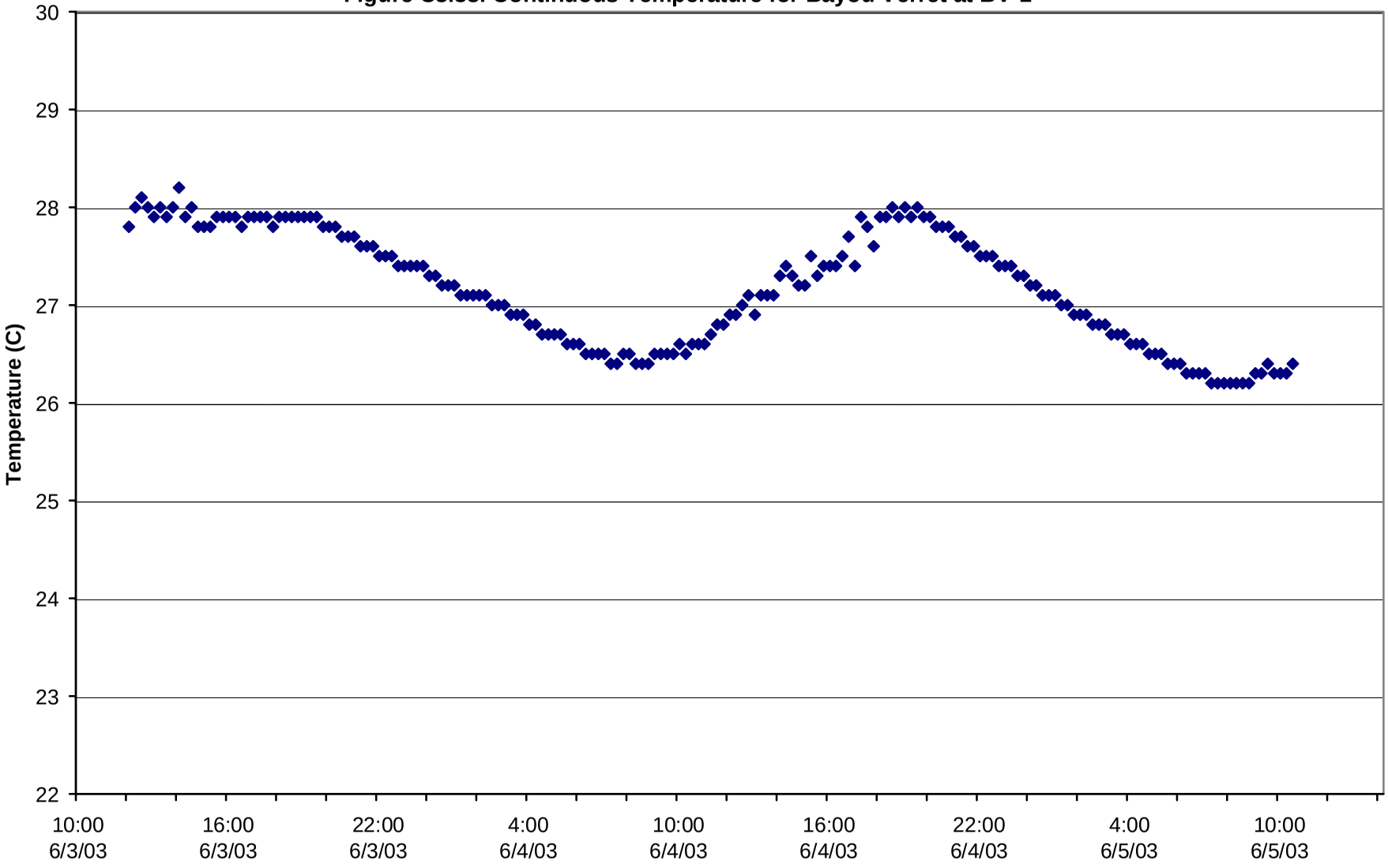


Figure C3.39. Continuous DO for Bayou Verret at BV-1

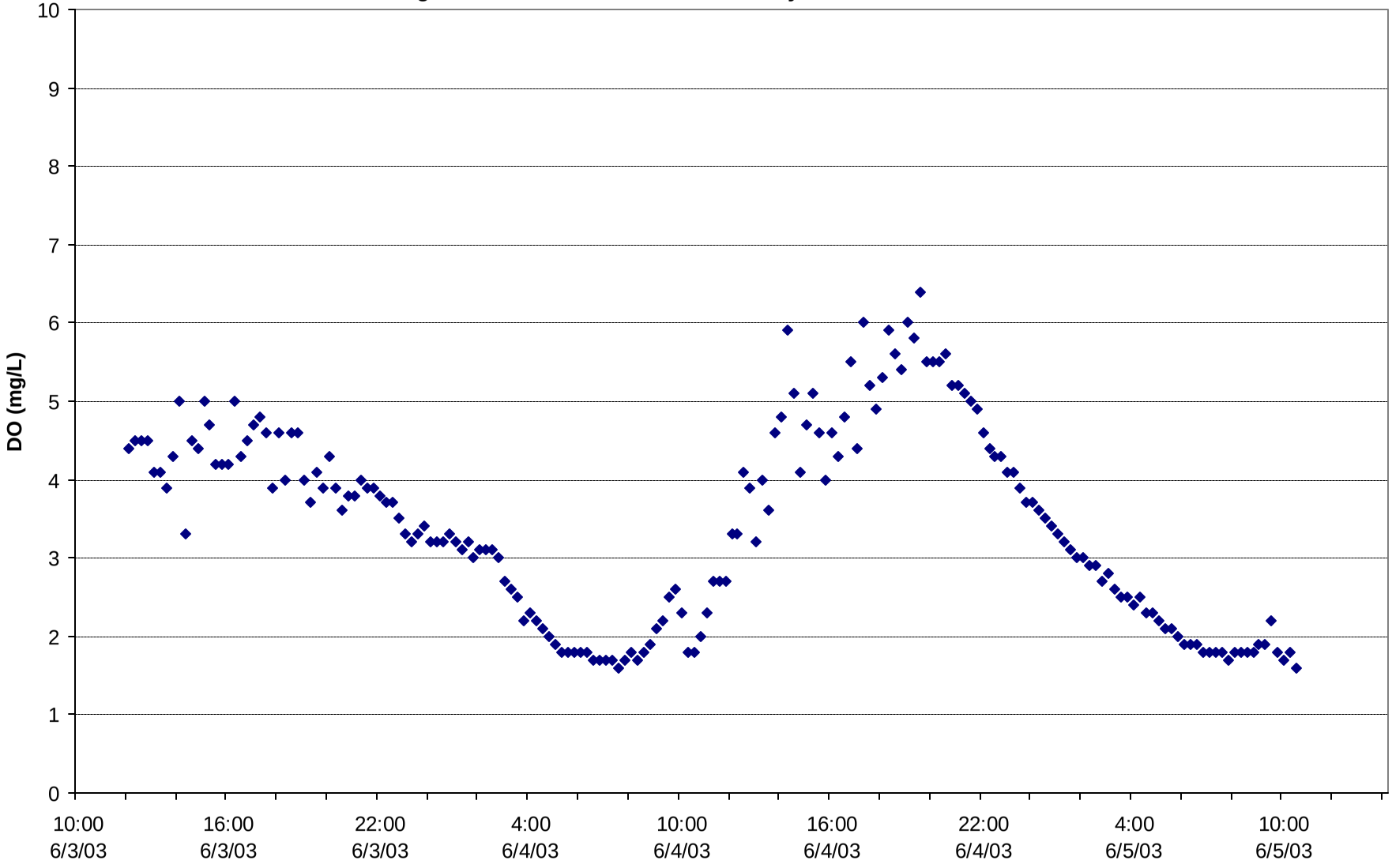


Figure C3.40. Continuous DO Percent Saturation for Bayou Verret at BV-1

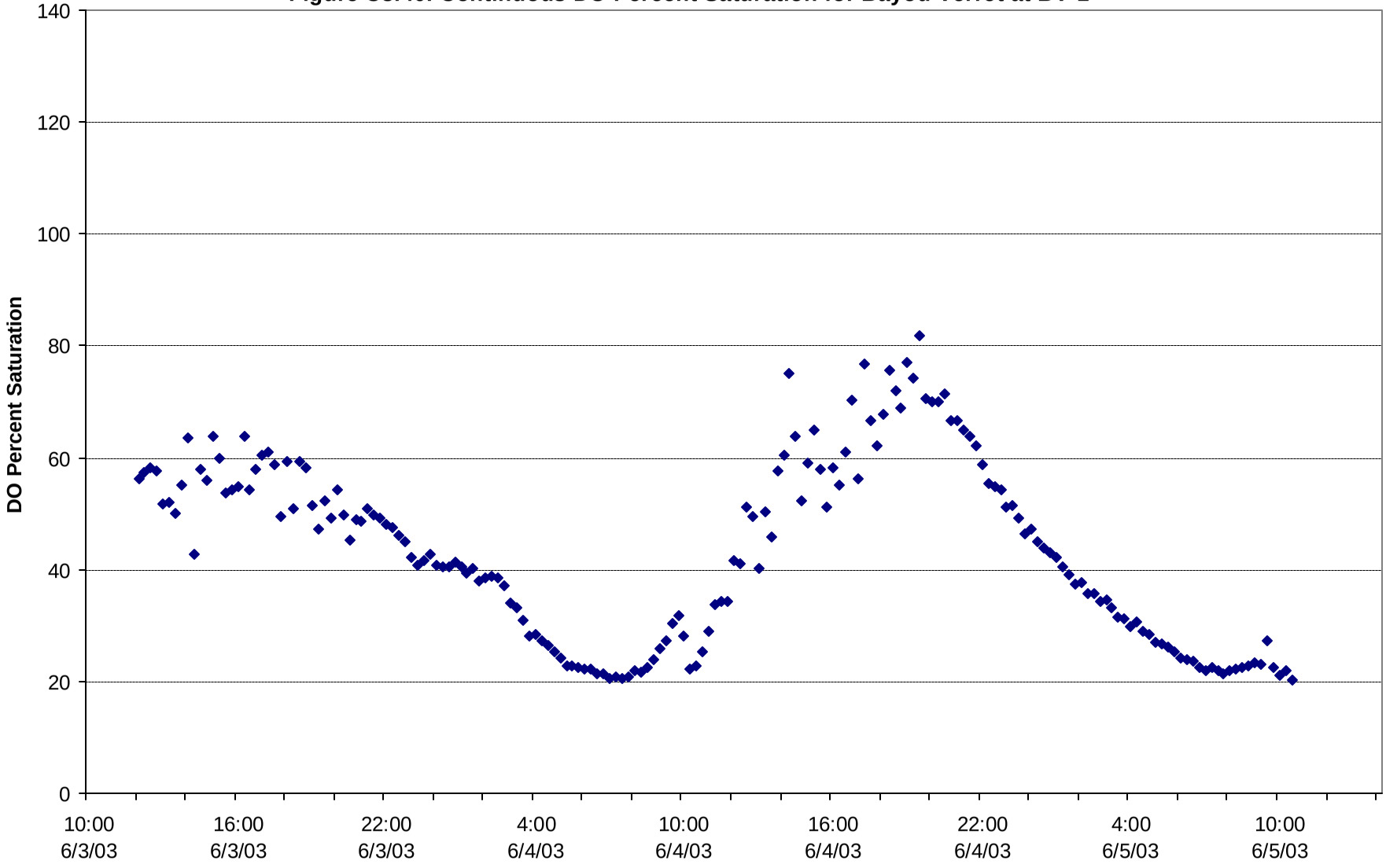


Figure C3.41. Continuous pH for Bayou Verret at BV-1

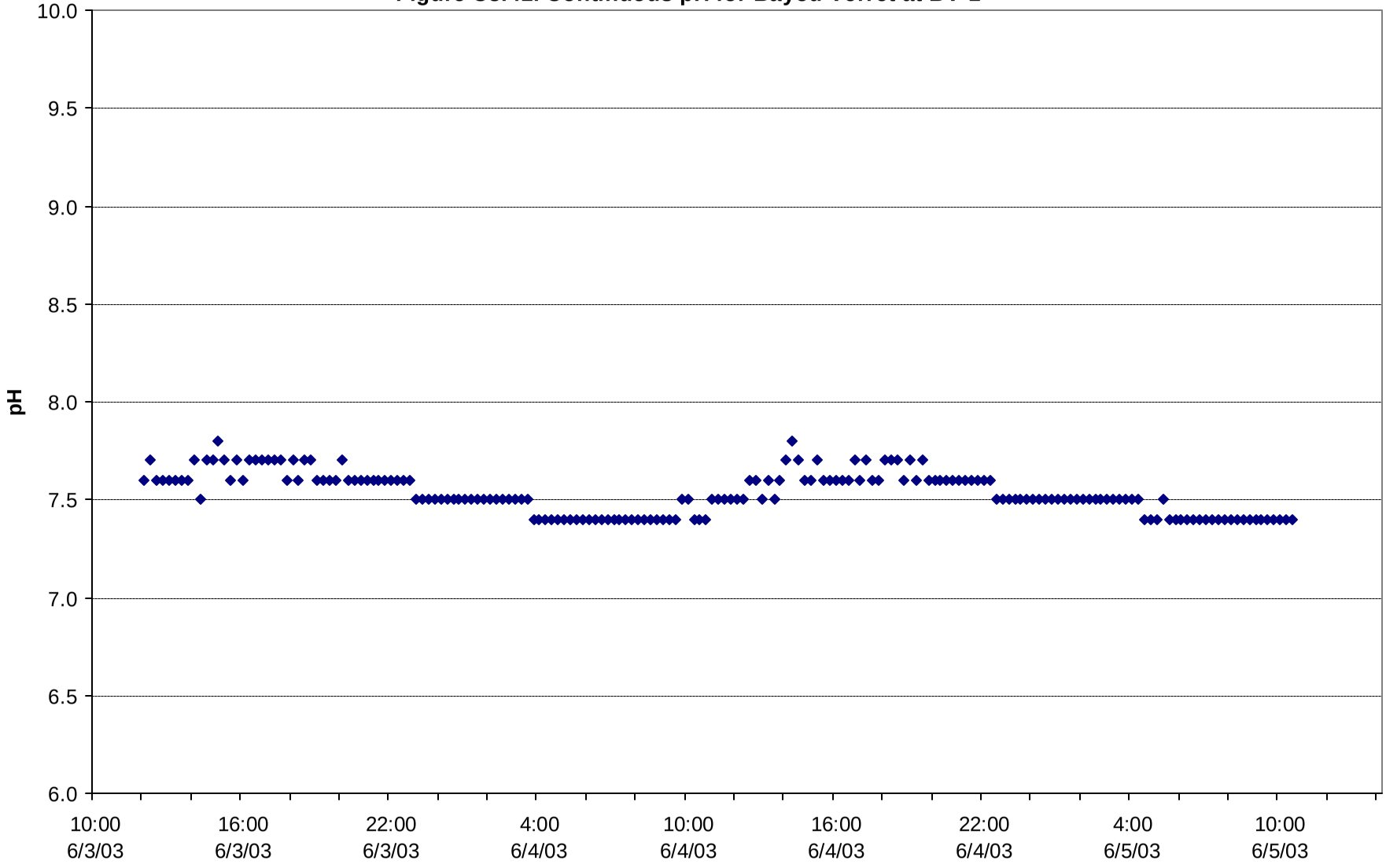


Figure C3.42. Continuous Specific Conductvity for Bayou Verret at BV-1

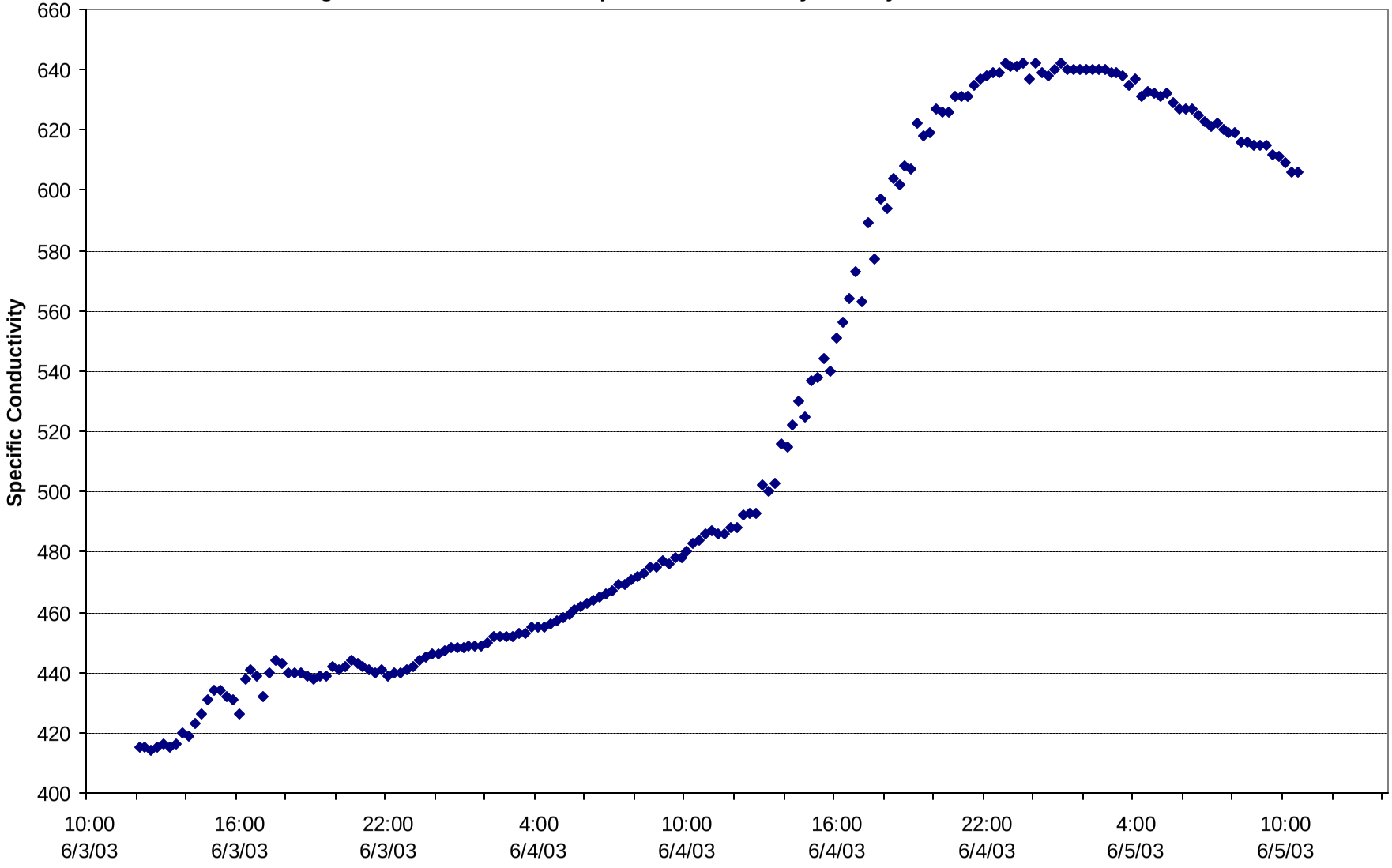


Figure C3.43. Continuous Depth for Bayou Verret at BV-1

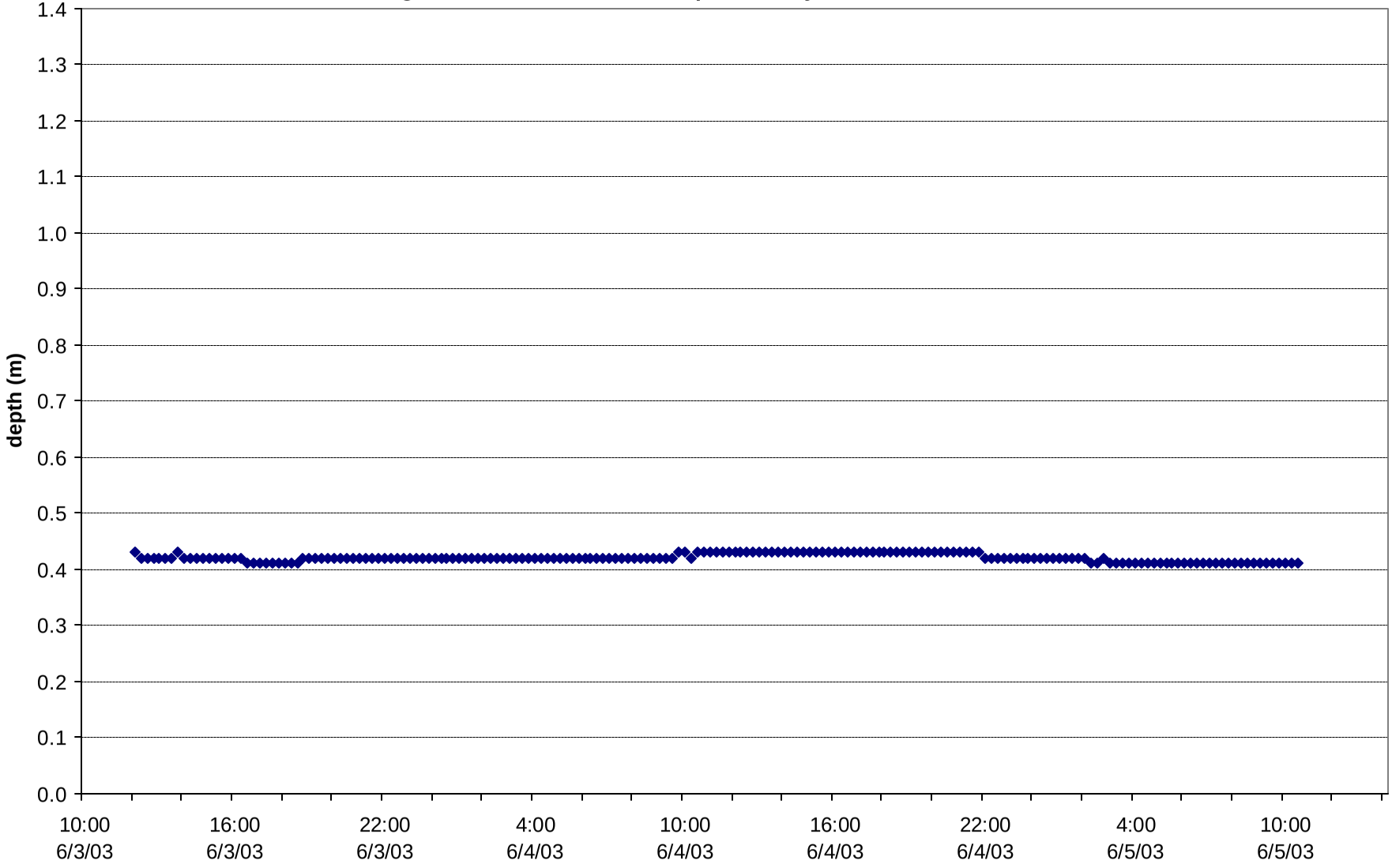


Figure C3.44. Continuous Temperature for St. James Canal at SJC-1

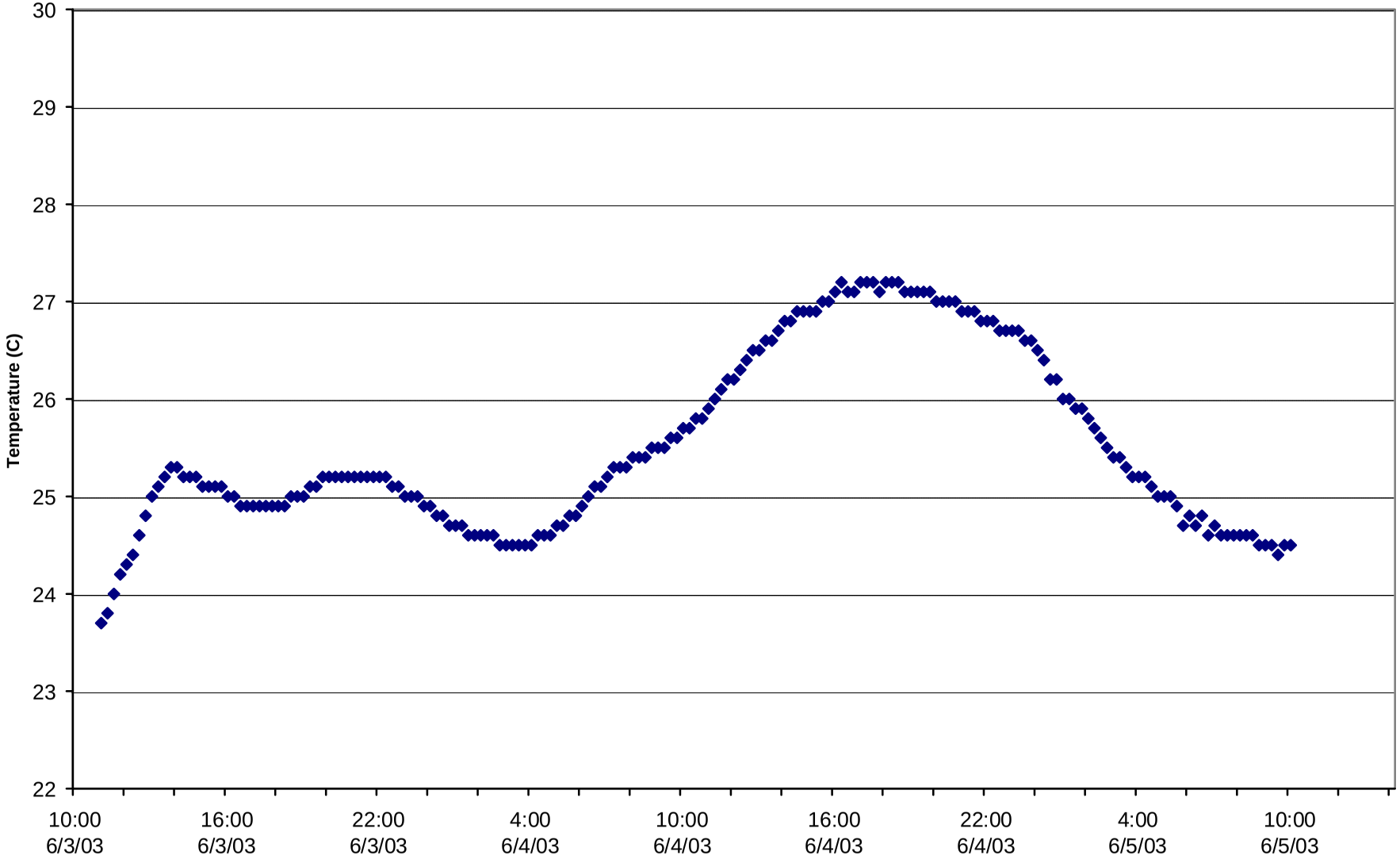


Figure C3.45. Continuous DO for St. James Canal at SJC-1

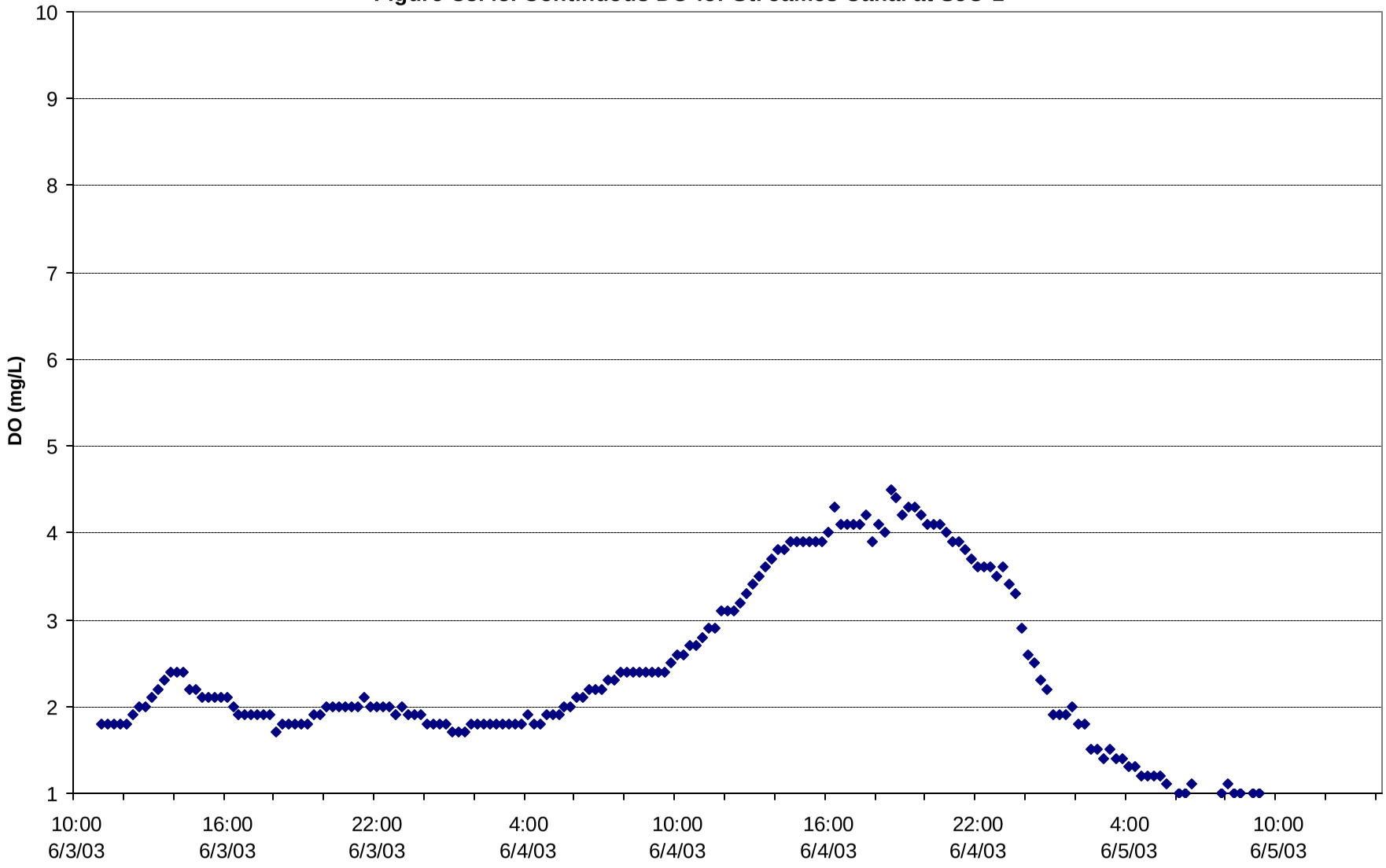


Figure C3.46. Continuous DO Percent Saturation for St. James Canal at SJC-1

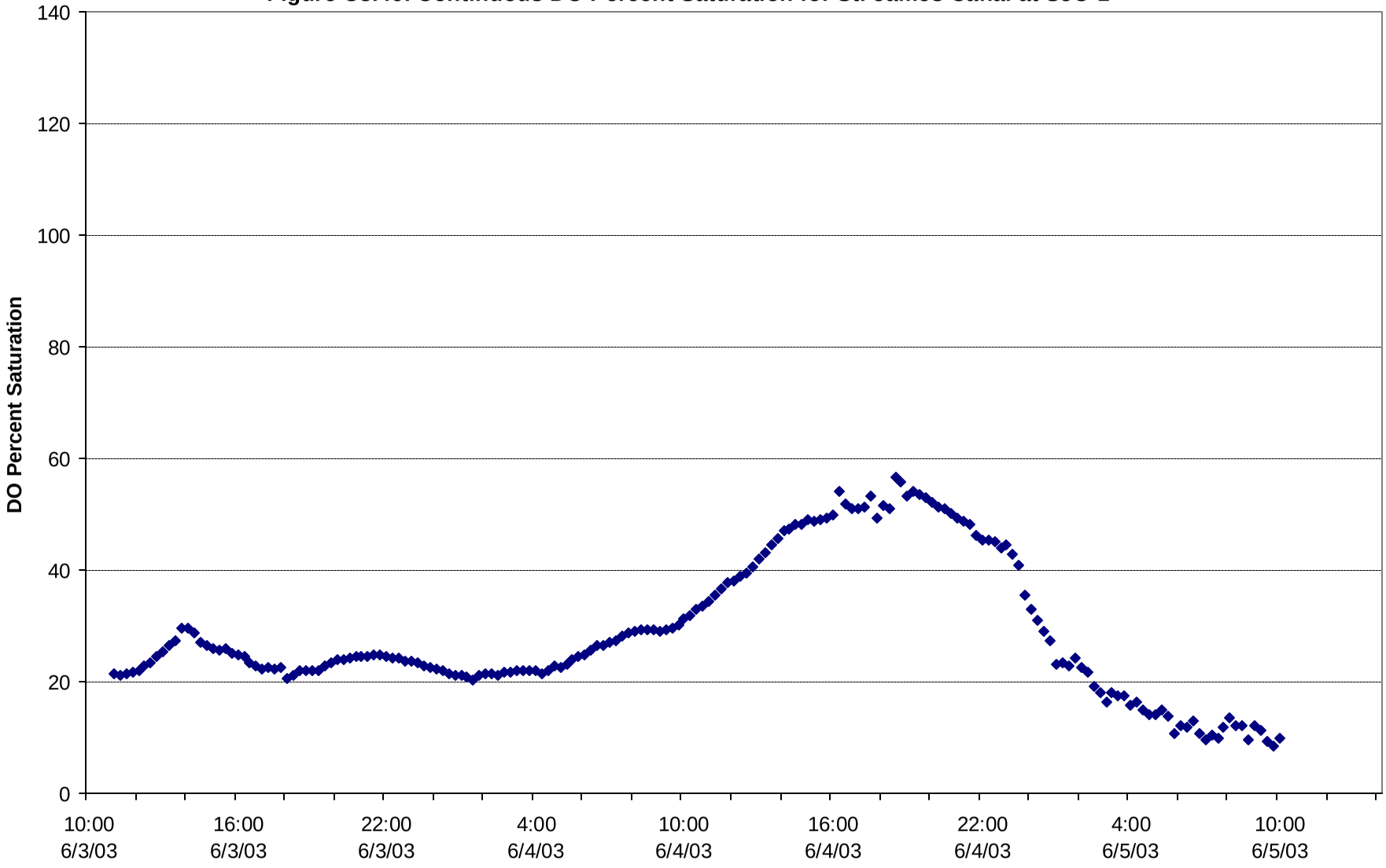


Figure C3.47. Continuous pH for St. James Canal at SJC-1

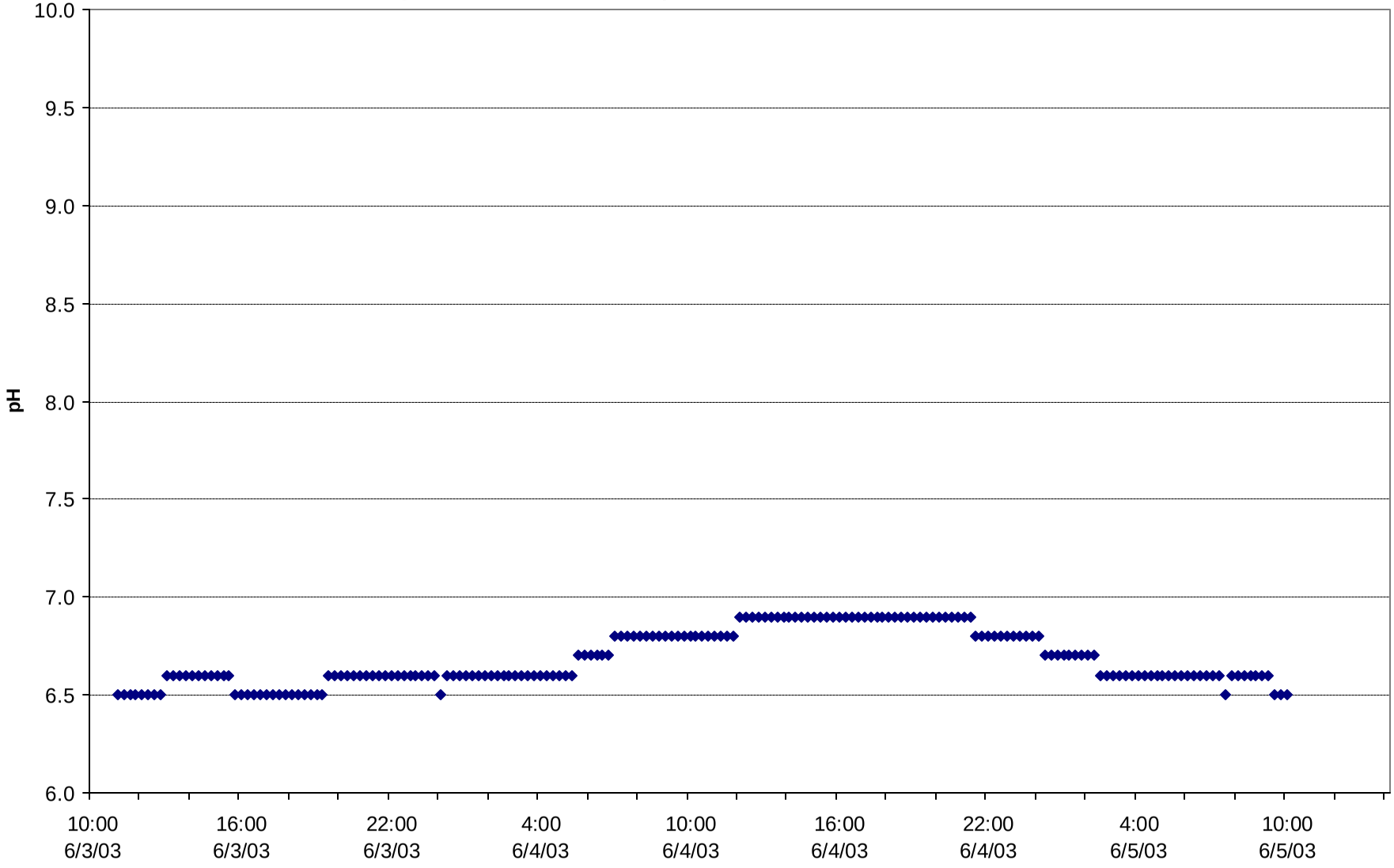


Figure C3.48. Continuous Specific Conductivity for St. James Canal at SJC-1

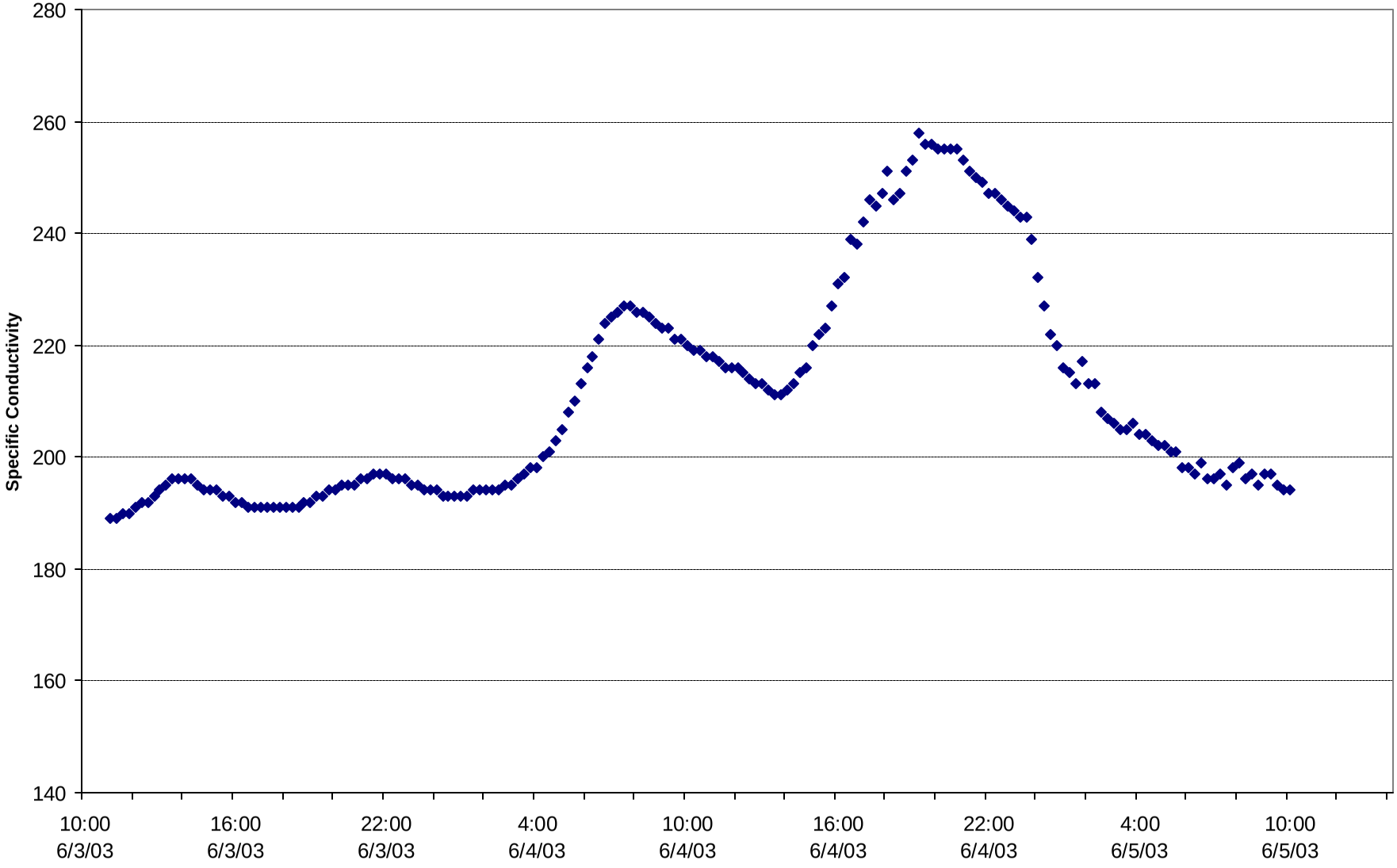


Figure C3.49. Continuous Depth for St. James Canal at SJC-1

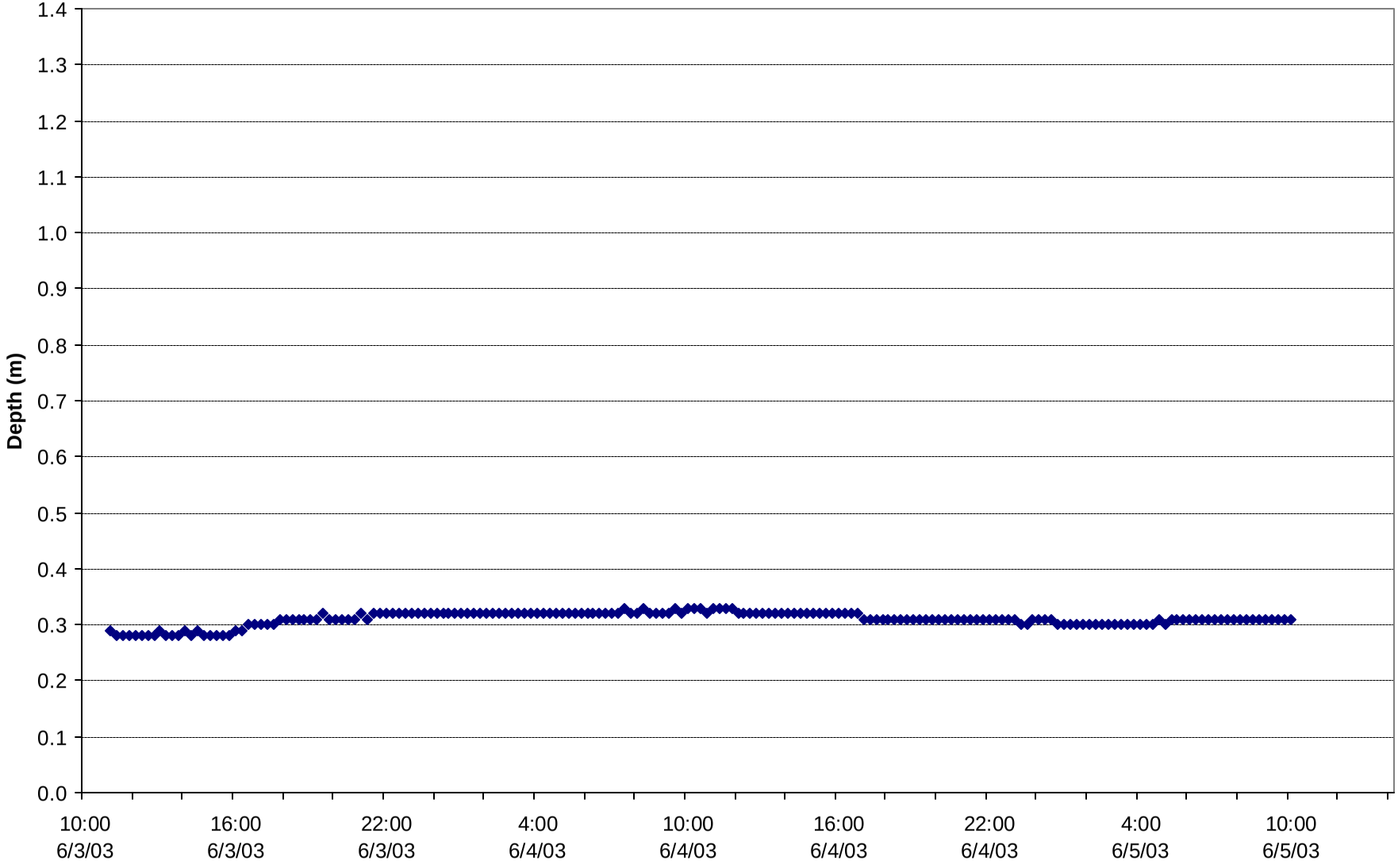


Figure C3.50. Continuous Temperature for Grand Bayou at GB-1

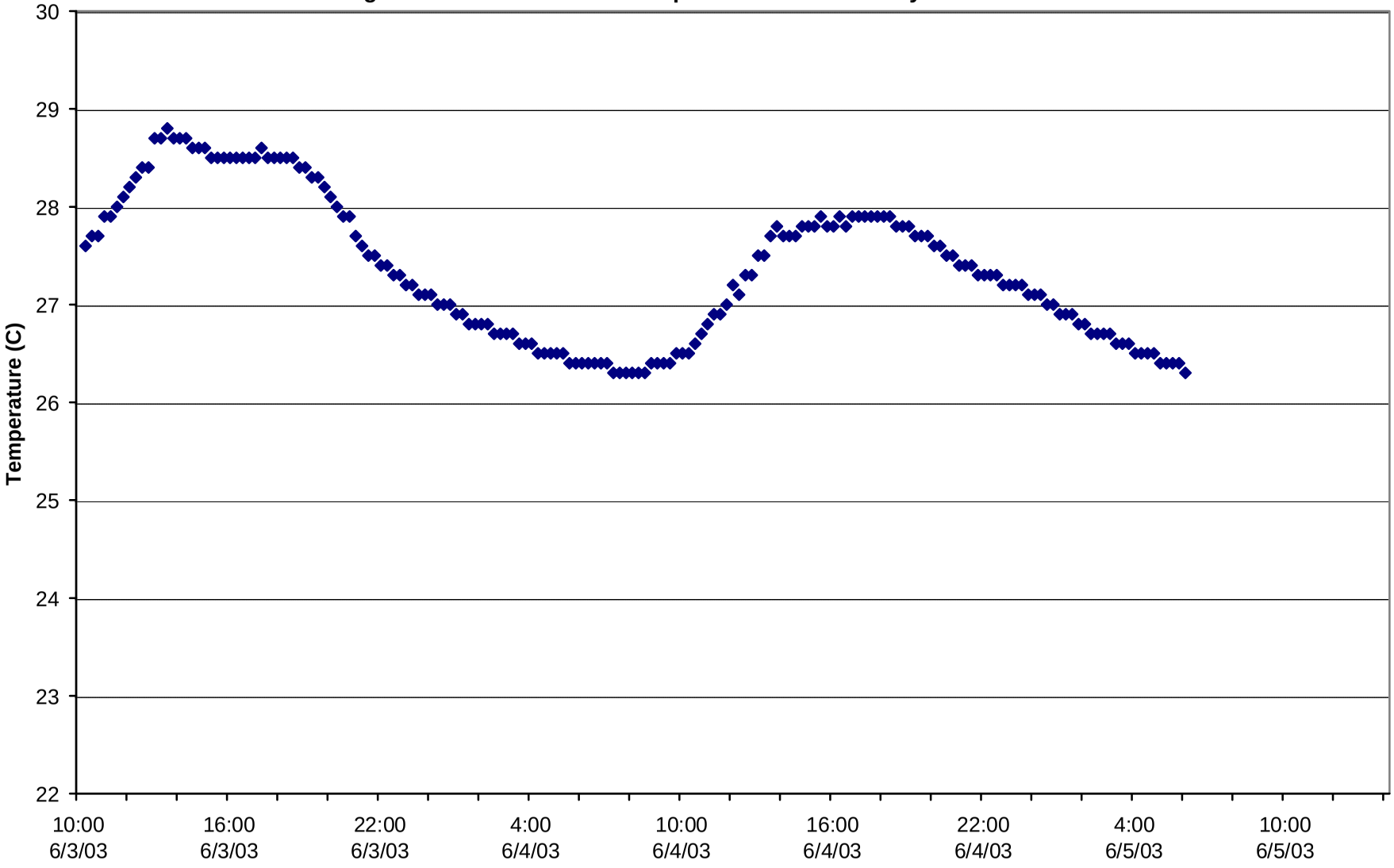


Figure C3.51. Continuous DO for Grand Bayou at GB-1

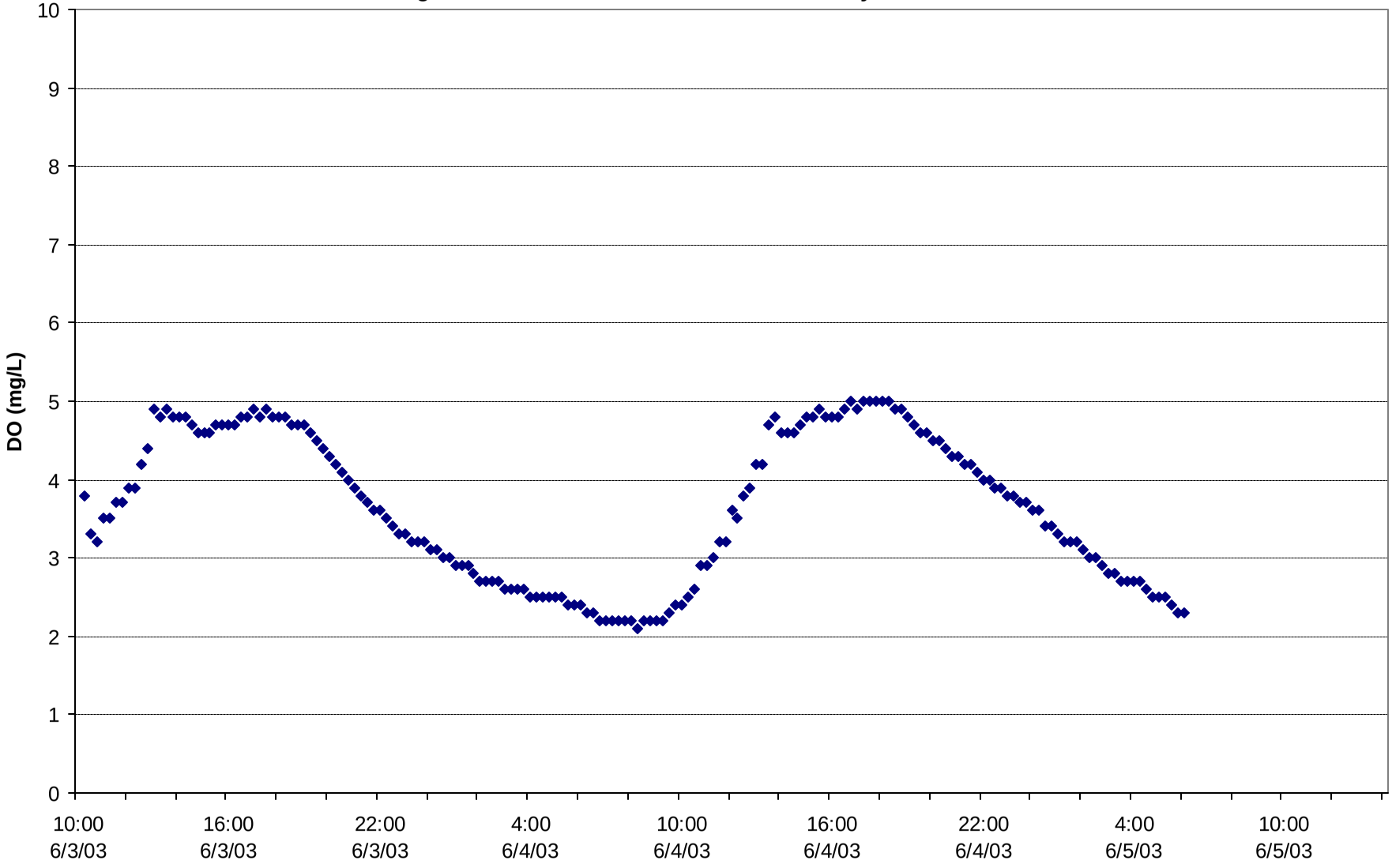


Figure C3.52. Continuous DO Percent Saturation for Grand Bayou at GB-1

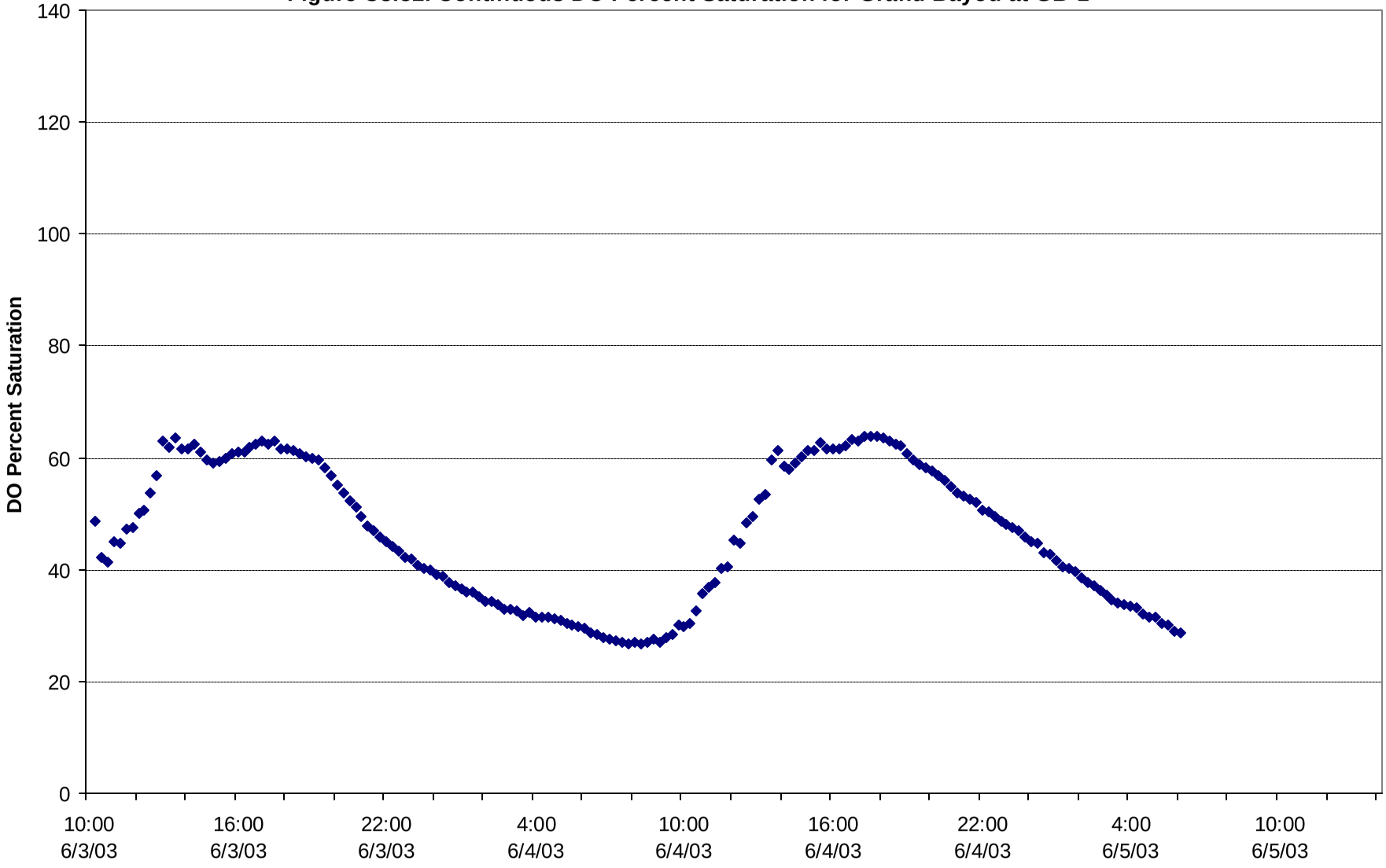


Figure C3.53. Continuous pH for Grand Bayou at GB-1

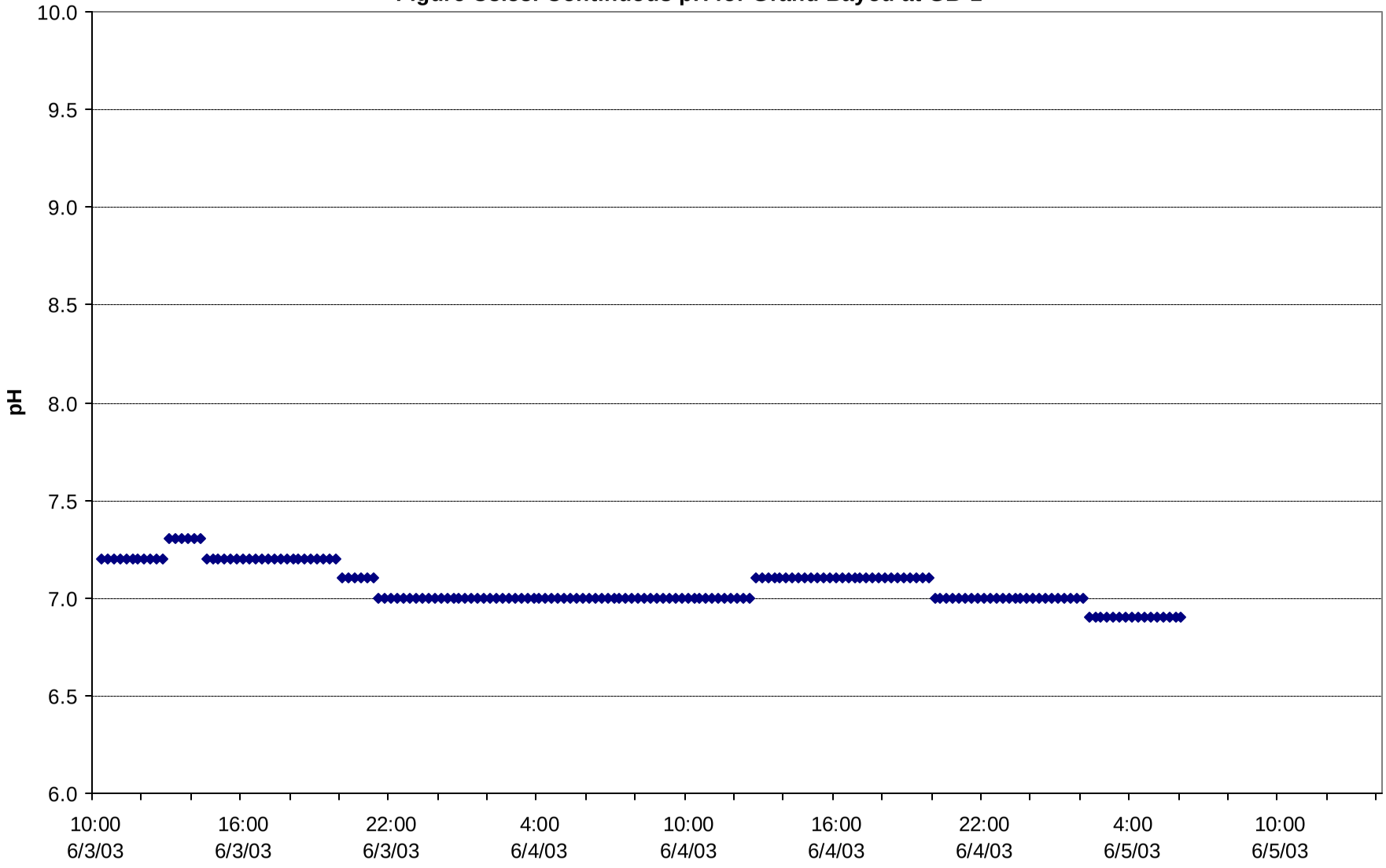


Figure C3.54. Continuous Specific Conductivity for Grand Bayou at GB-1

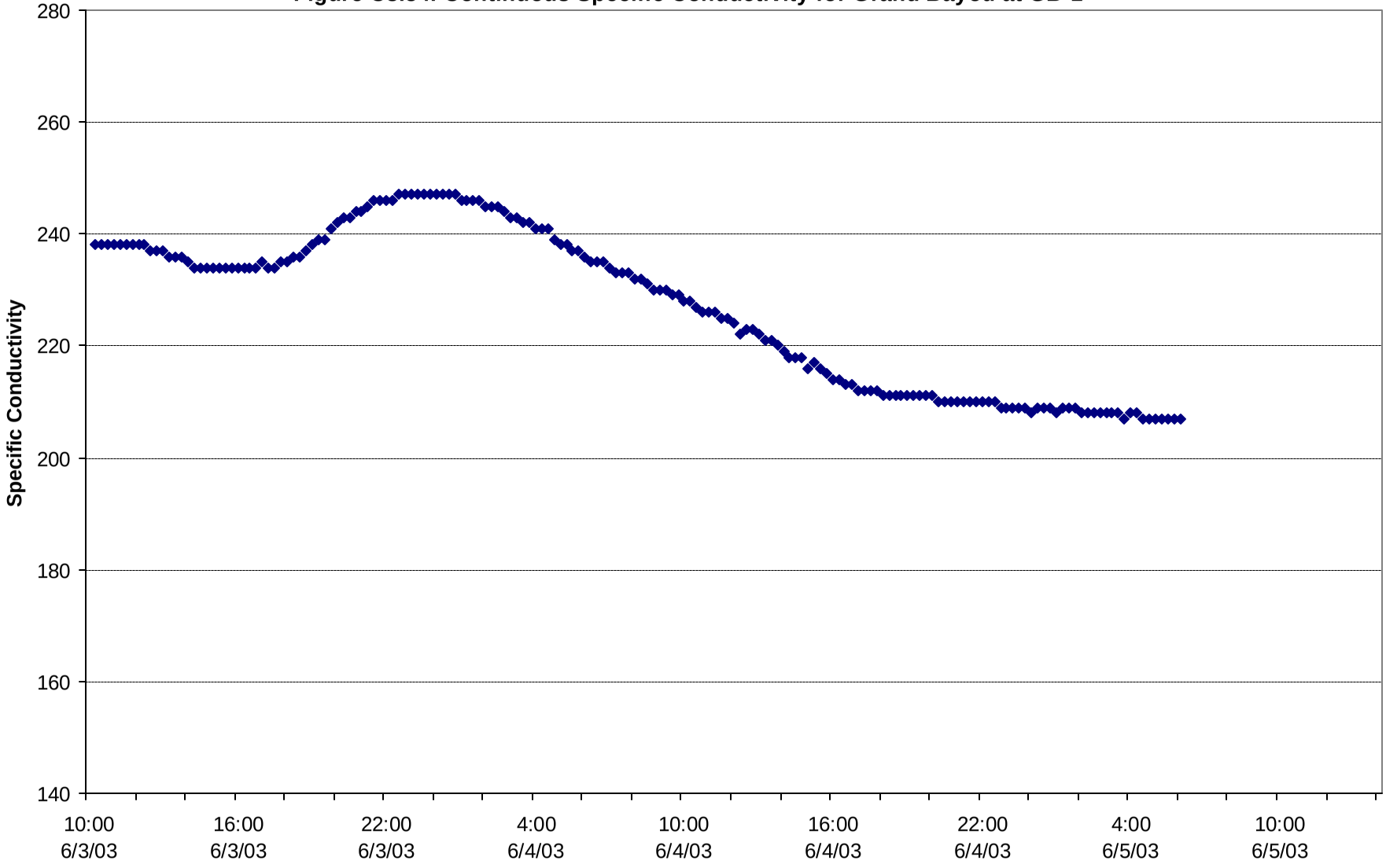


Figure C3.55. Continuous Depth for Grand Bayou at GB-1

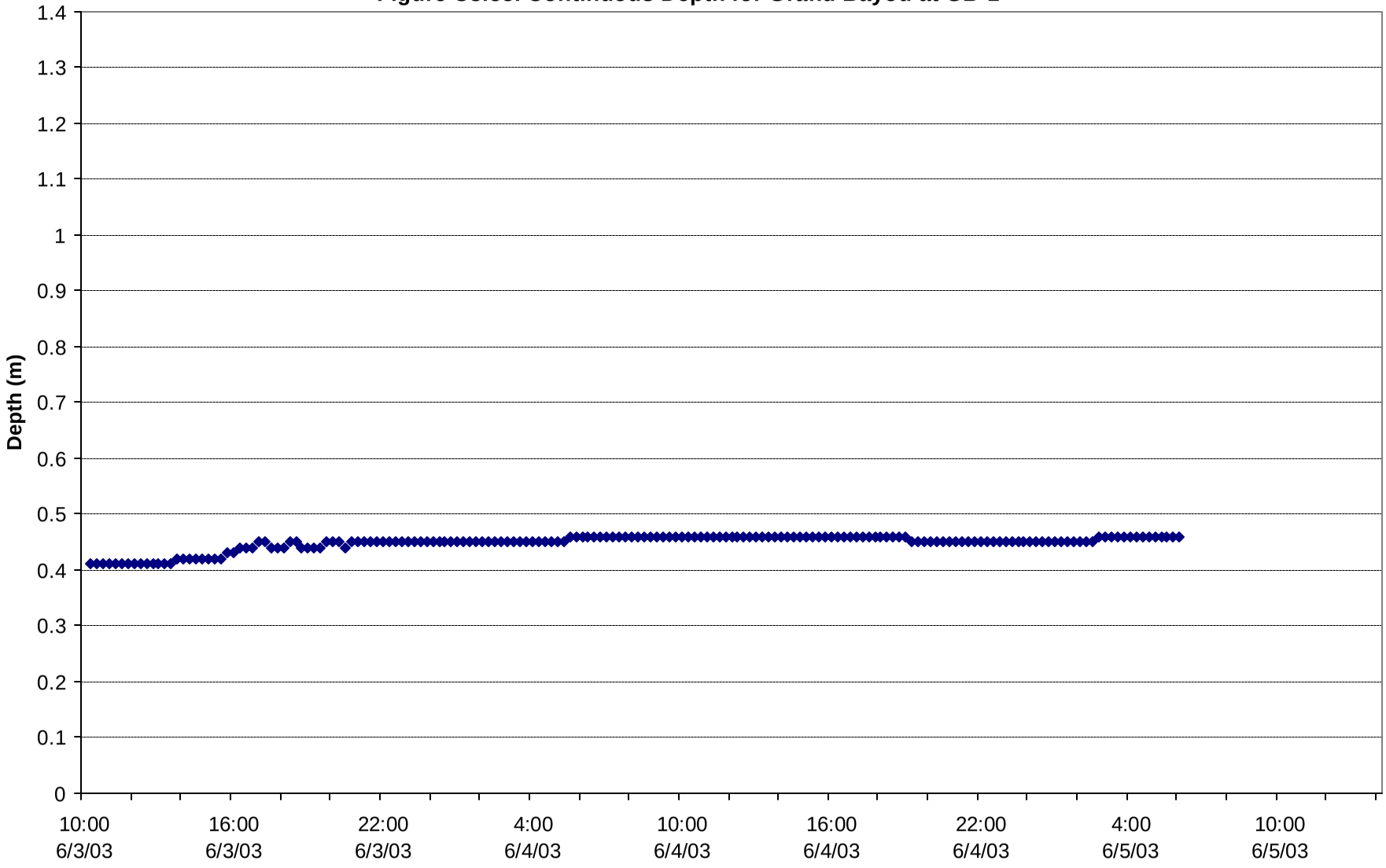


Figure C3.56. Continuous Temperature for St. James Canal at SJC-2

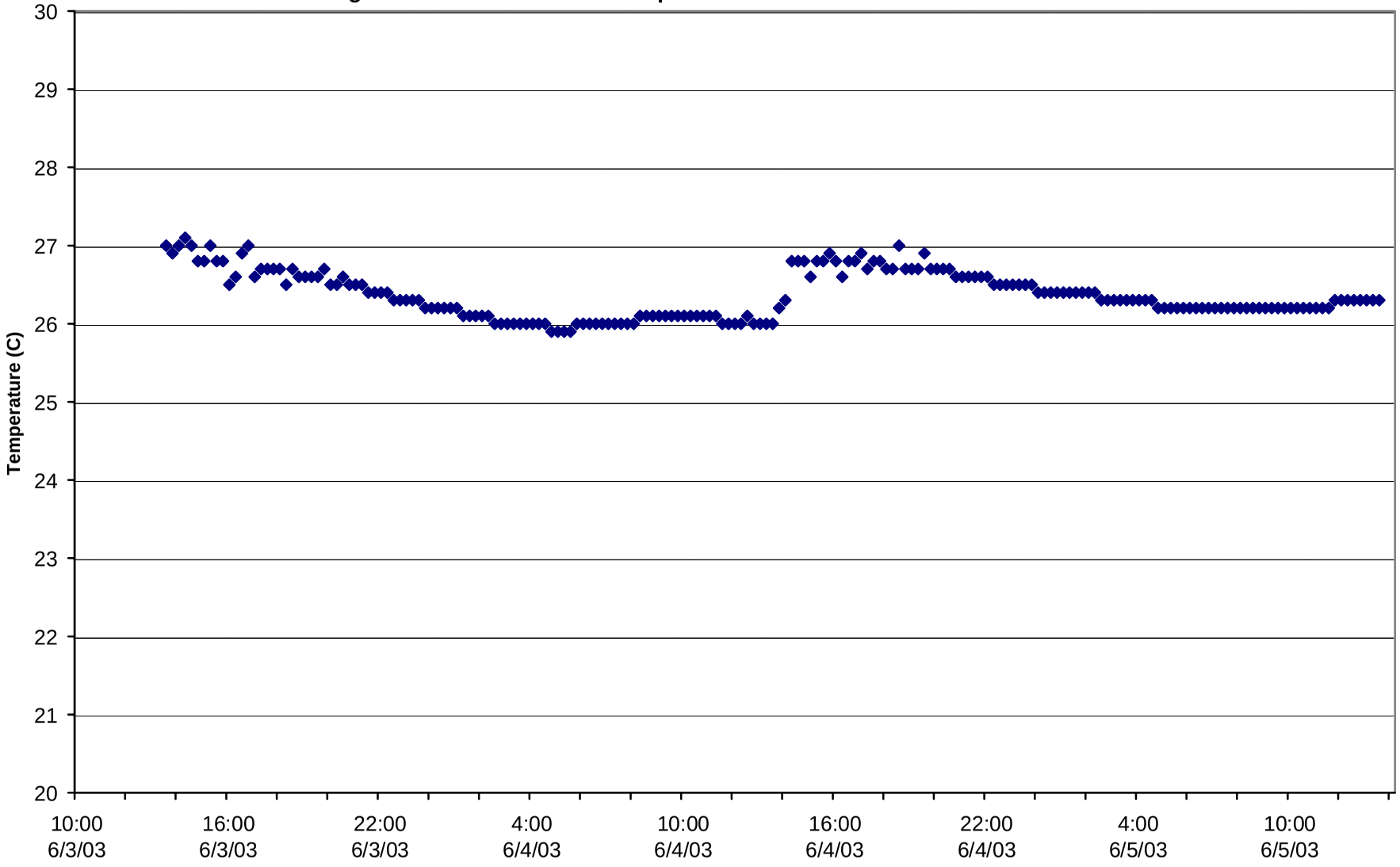


Figure C3.57. Continuous DO for St. James Canal at SJC-2

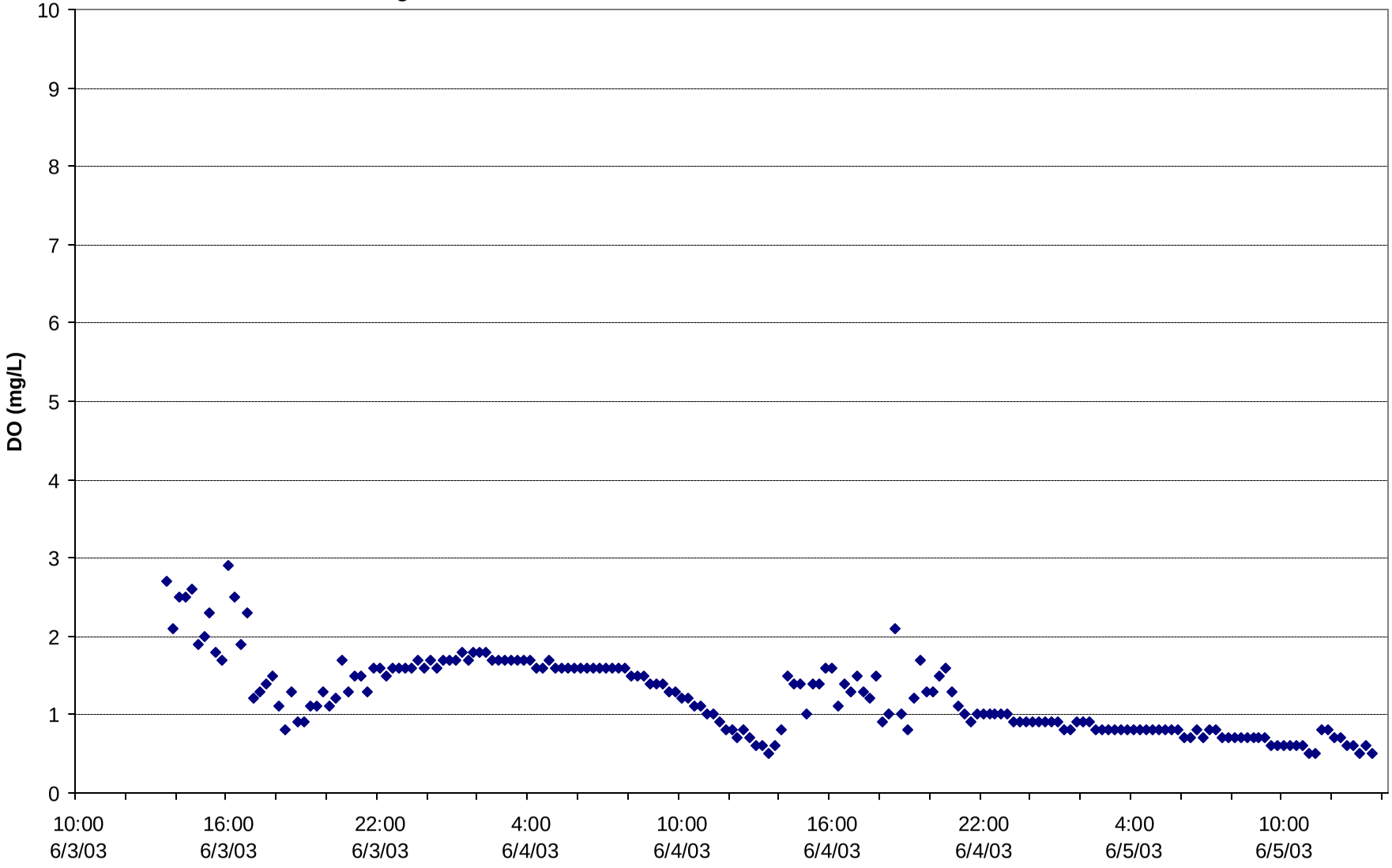


Figure C3.58. Continuous DO Percent Saturation for St. James Canal at SJC-2

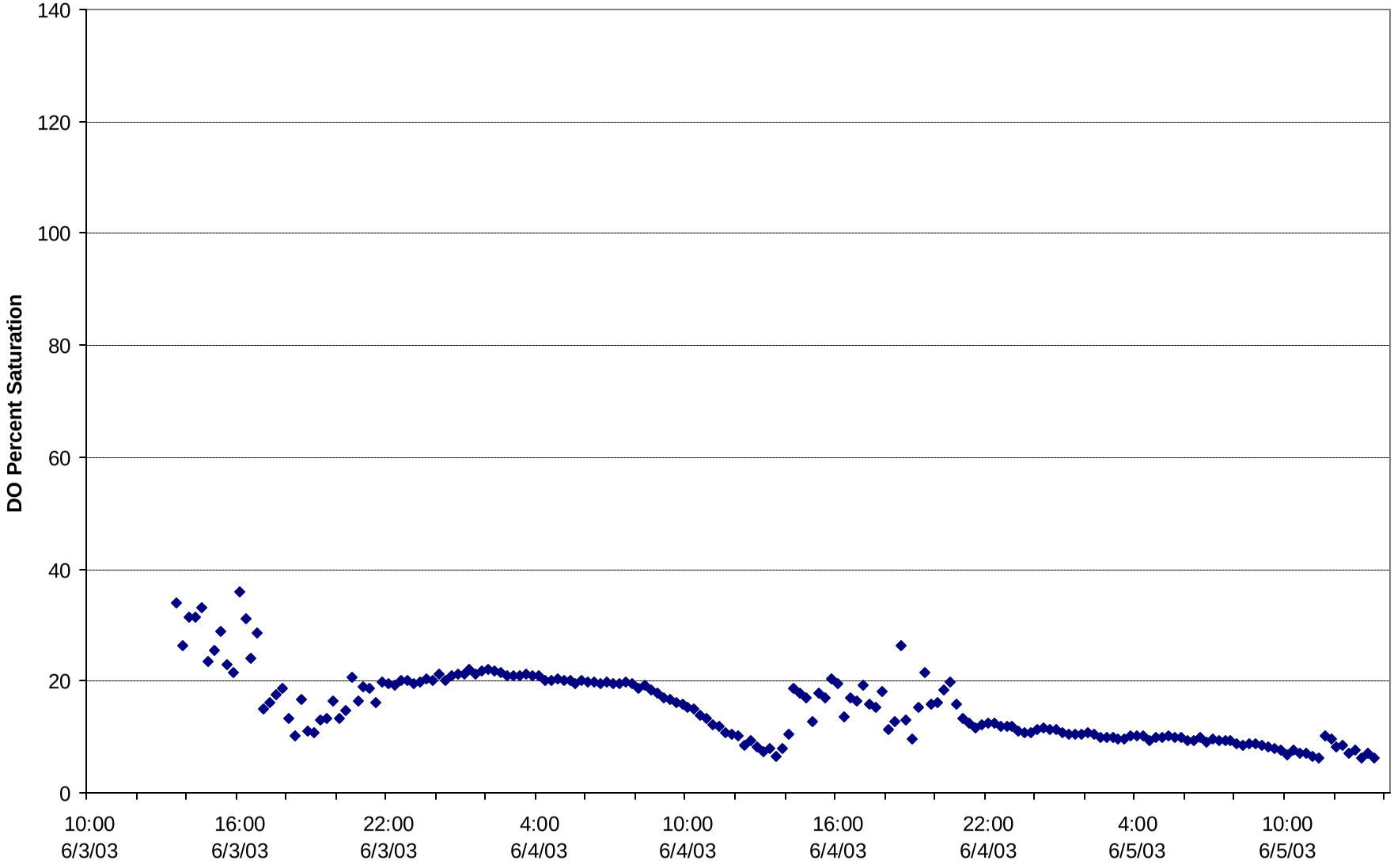


Figure C3.59. Continuous pH for St. James Canal at SJC-2

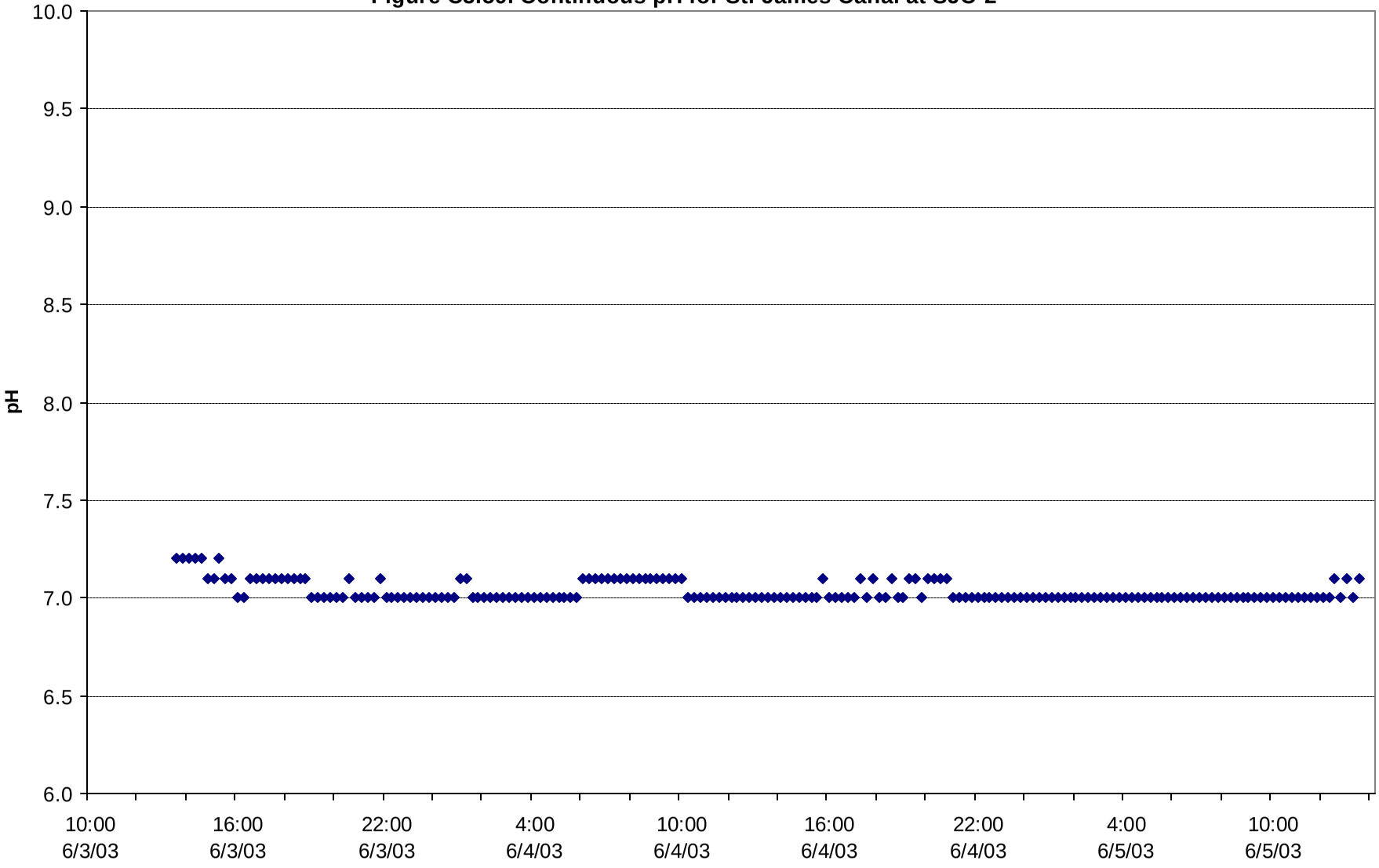


Figure C3.60. Continuous Specific Conductivity for St. James Canal at SJC-2

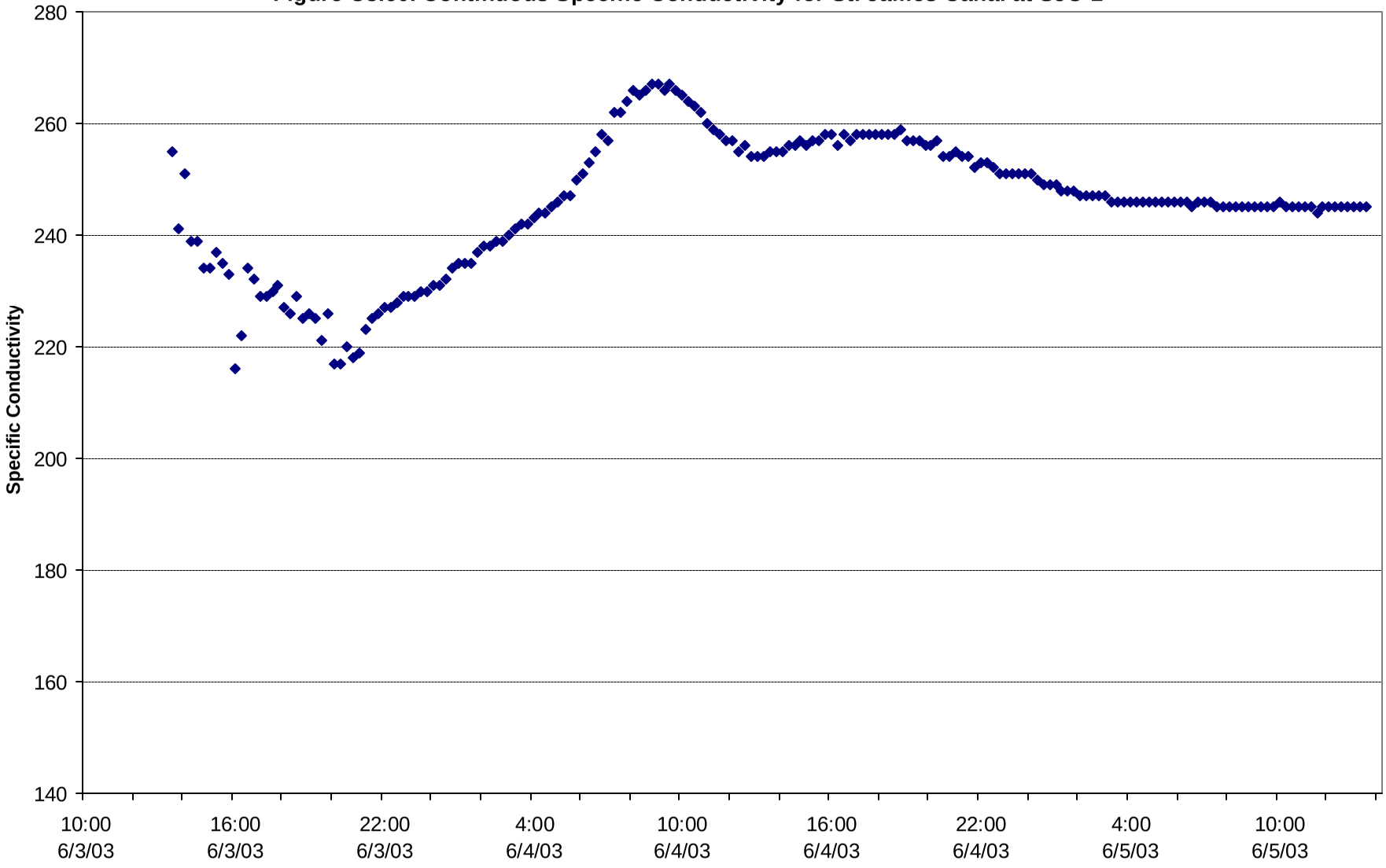


Figure C3.61. Continuous Depth for St. James Canal at SJC-2

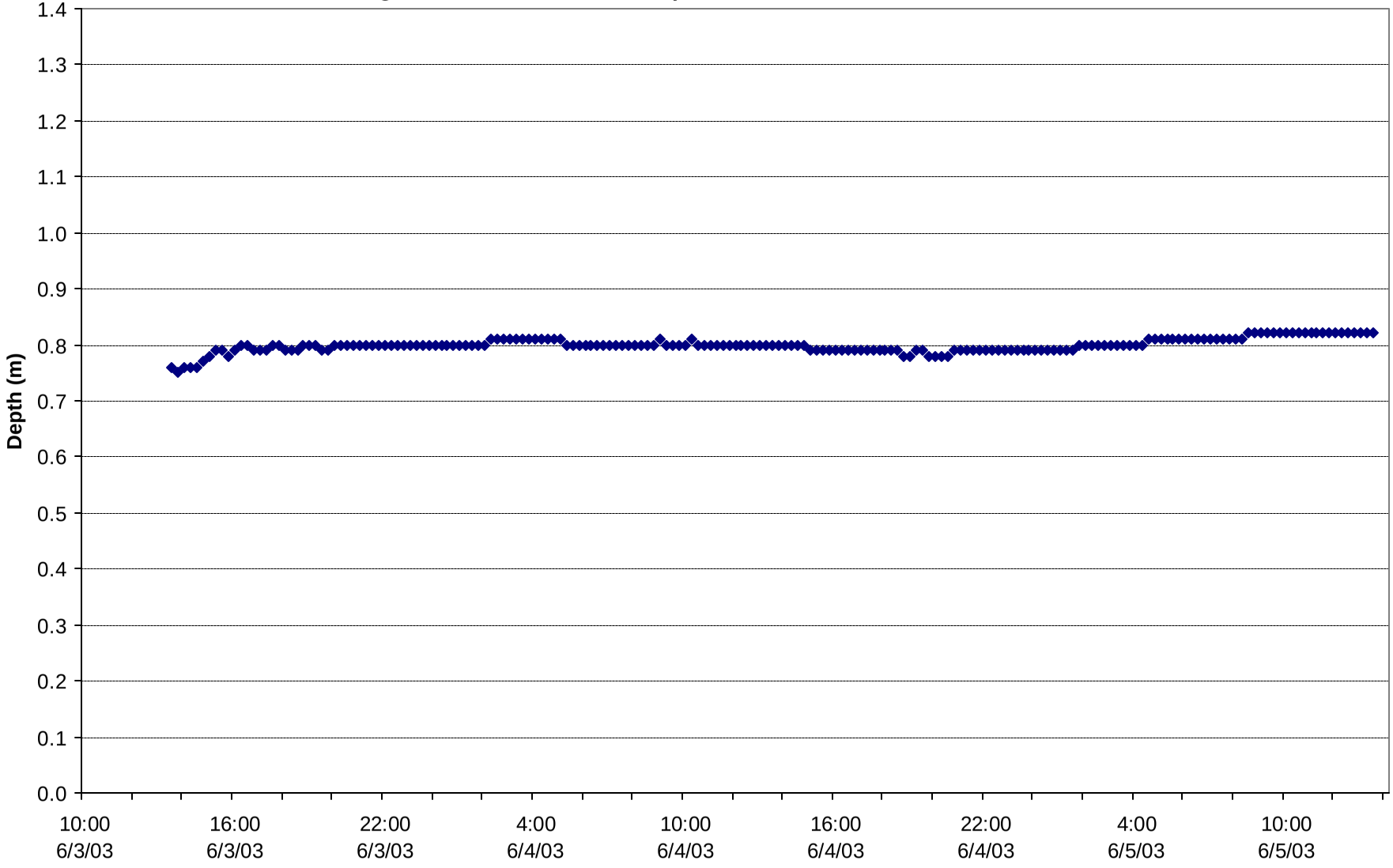


Figure C3.62. Continuous Temperature for Dredge Boat Canal at DBC-1

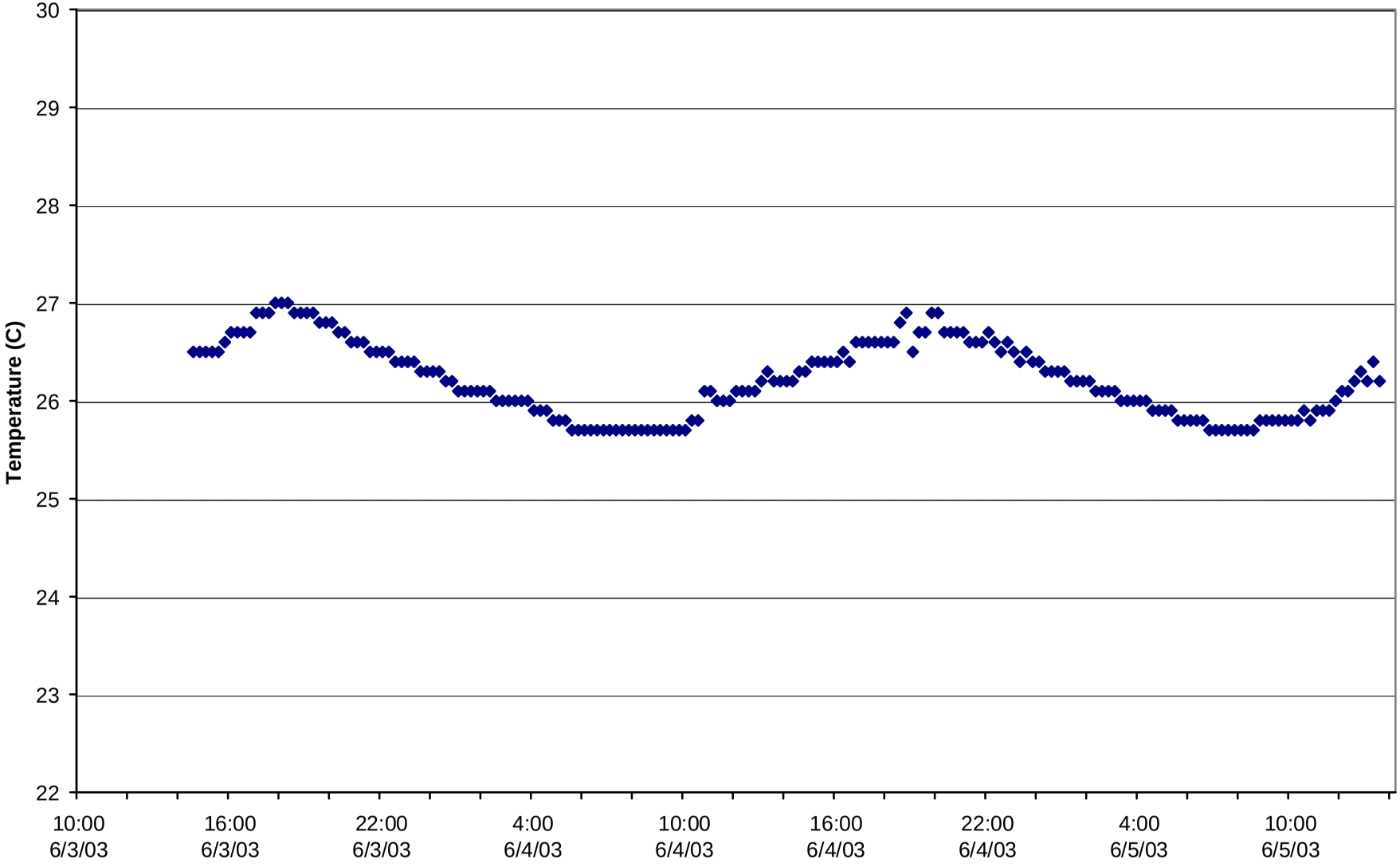


Figure C3.63. Continuous DO for Dredge Boat Canal at DBC-1

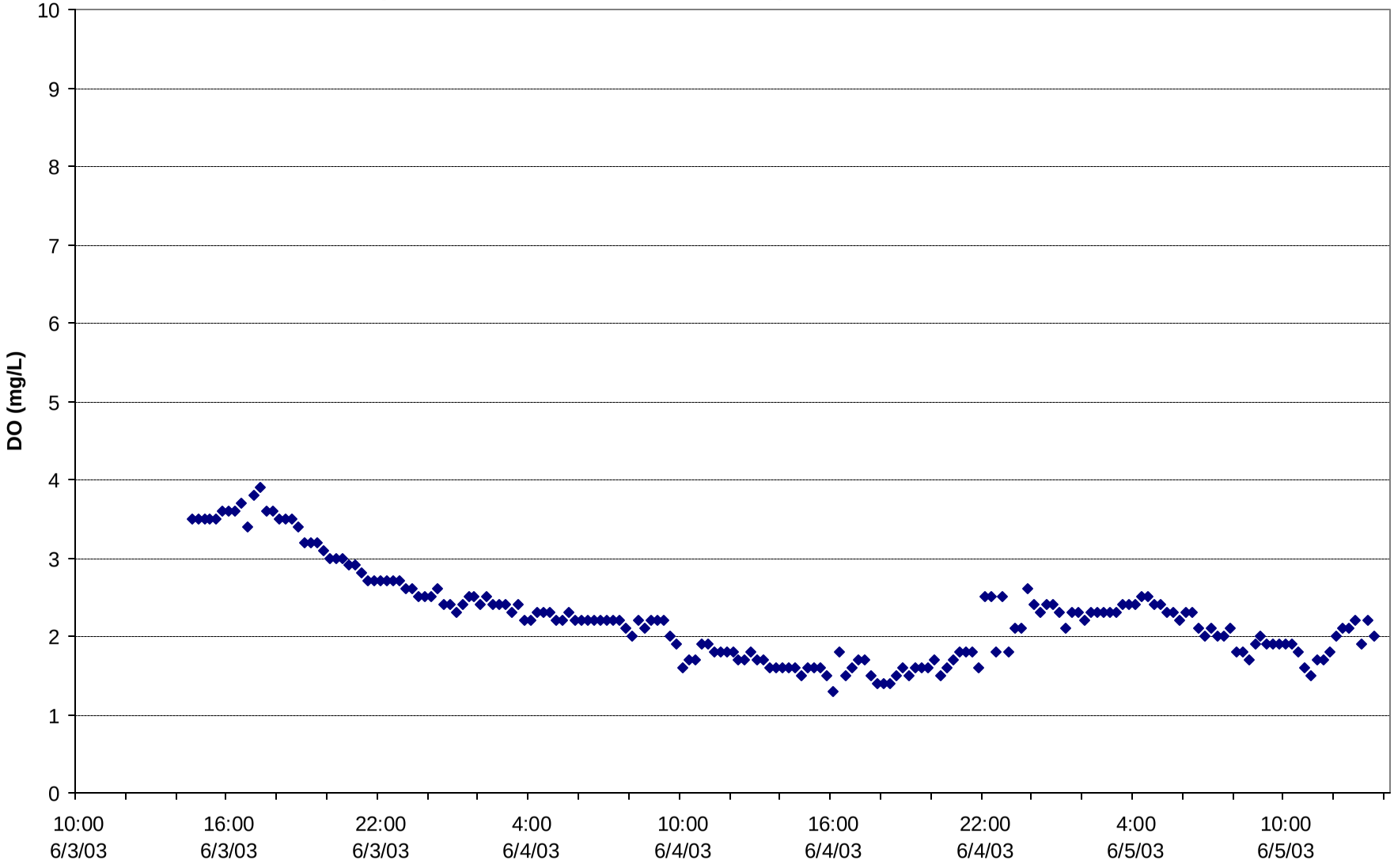


Figure C3.64. Continuous DO Percent Saturation for Dredge Boat Canal at DBC-1

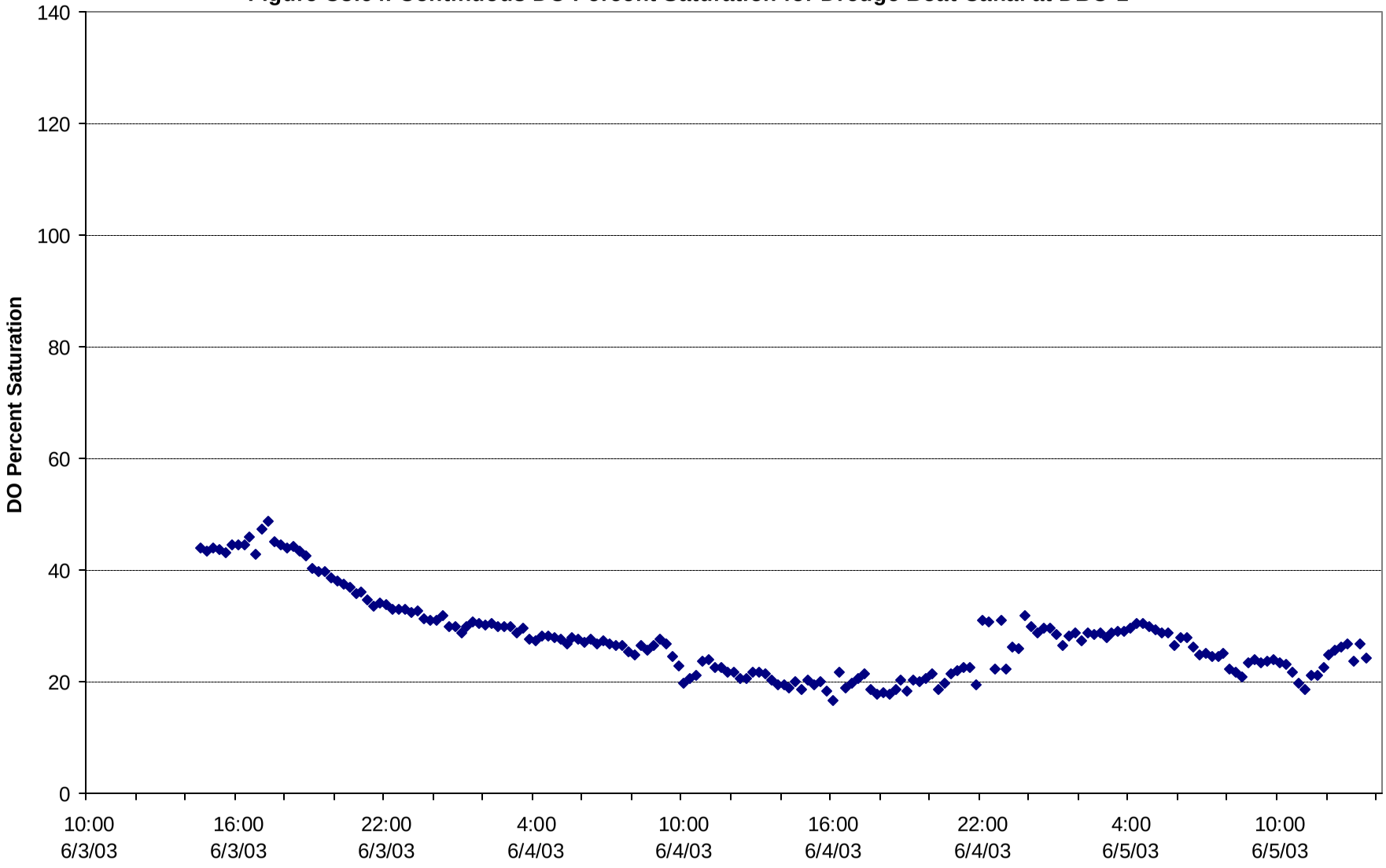


Figure C3.65. Continuous pH for Dredge Boat Canal at DBC-1

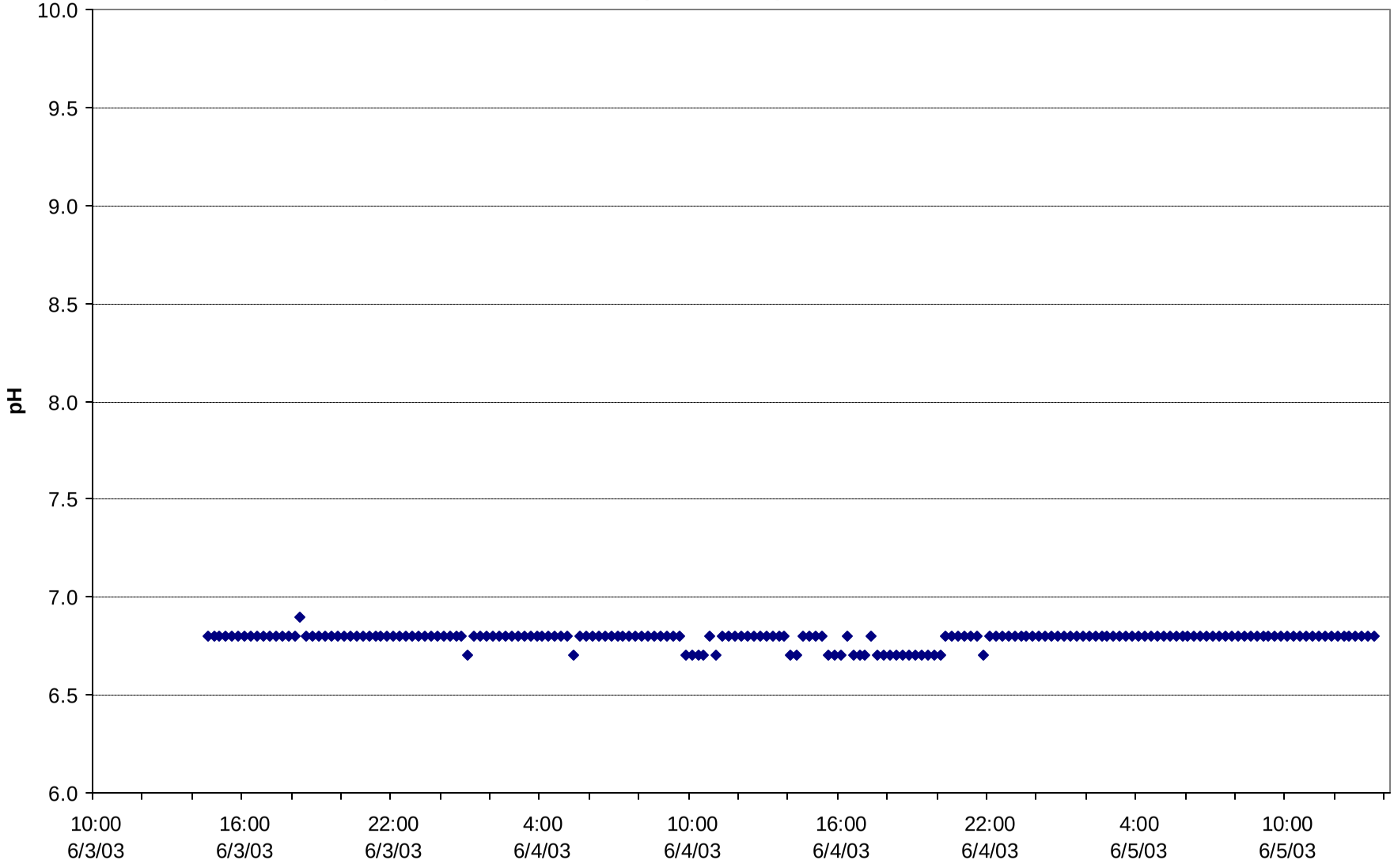


Figure C3.66. Continuous Specific Conductivity for Dredge Boat Canal at DBC-1

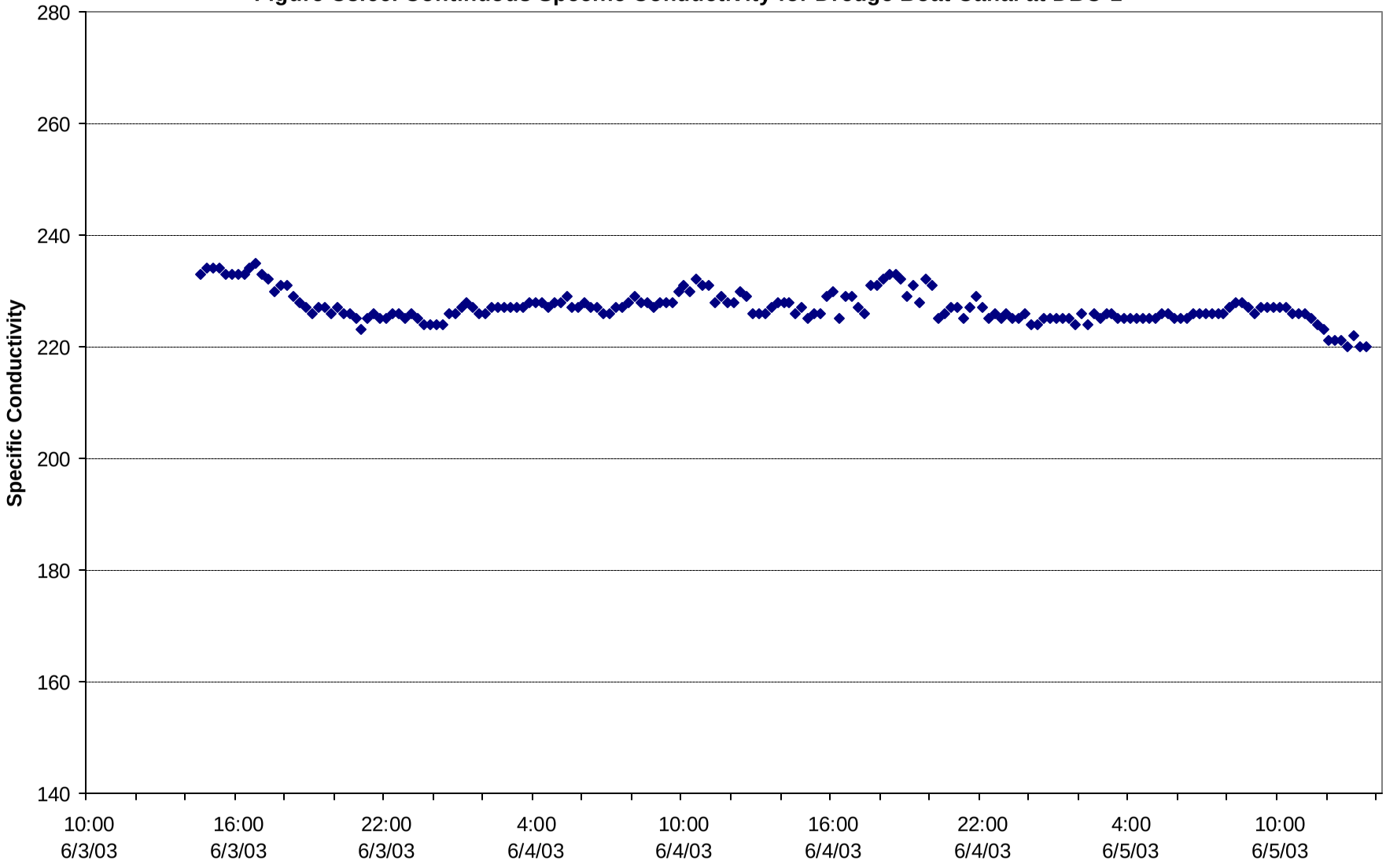


Figure C3.67. Continuous Depth for Dredge Boat Canal at DBC-1

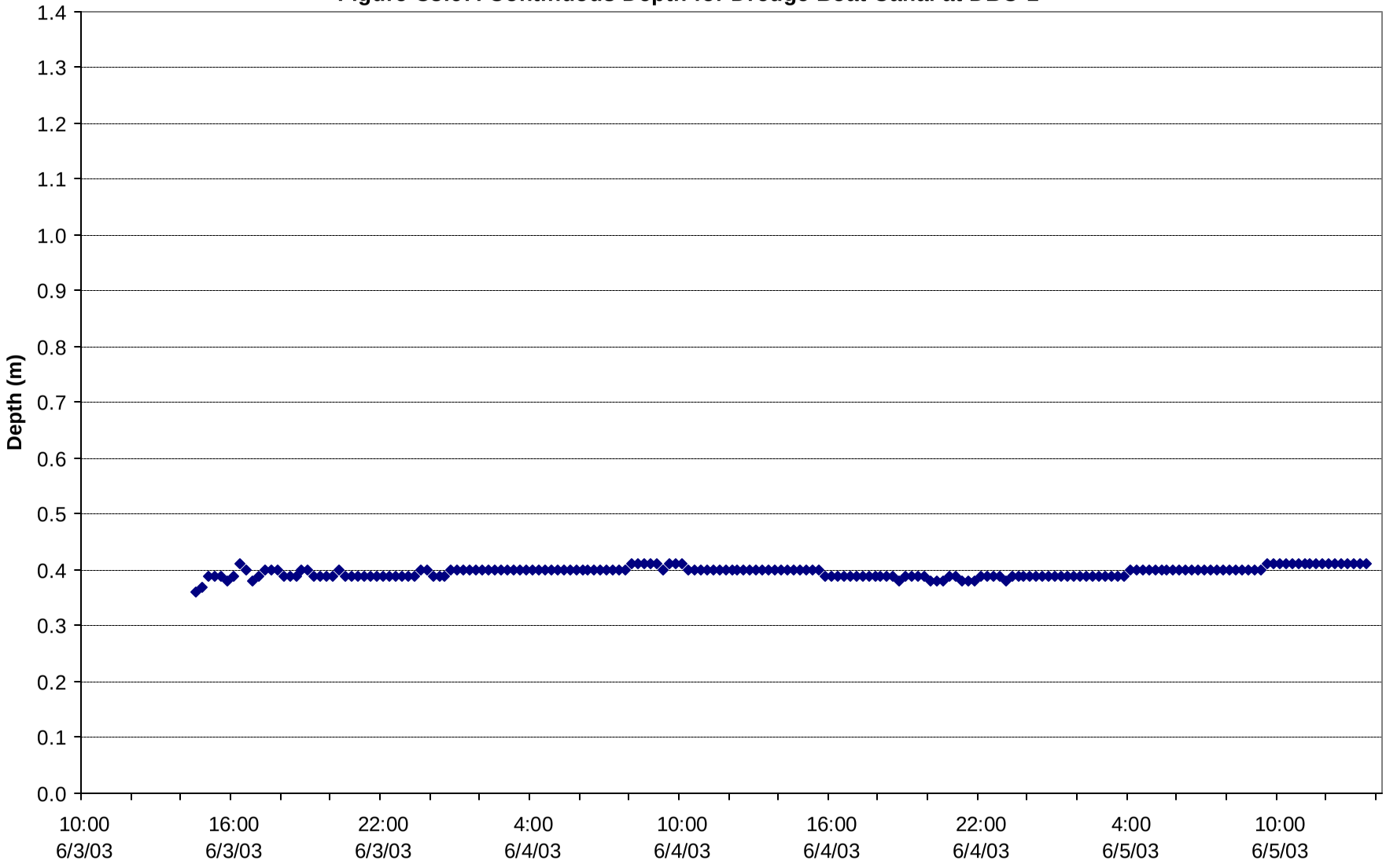


Figure C3.68. Continuous Temperature for Lake Des Allemands at LDA-1

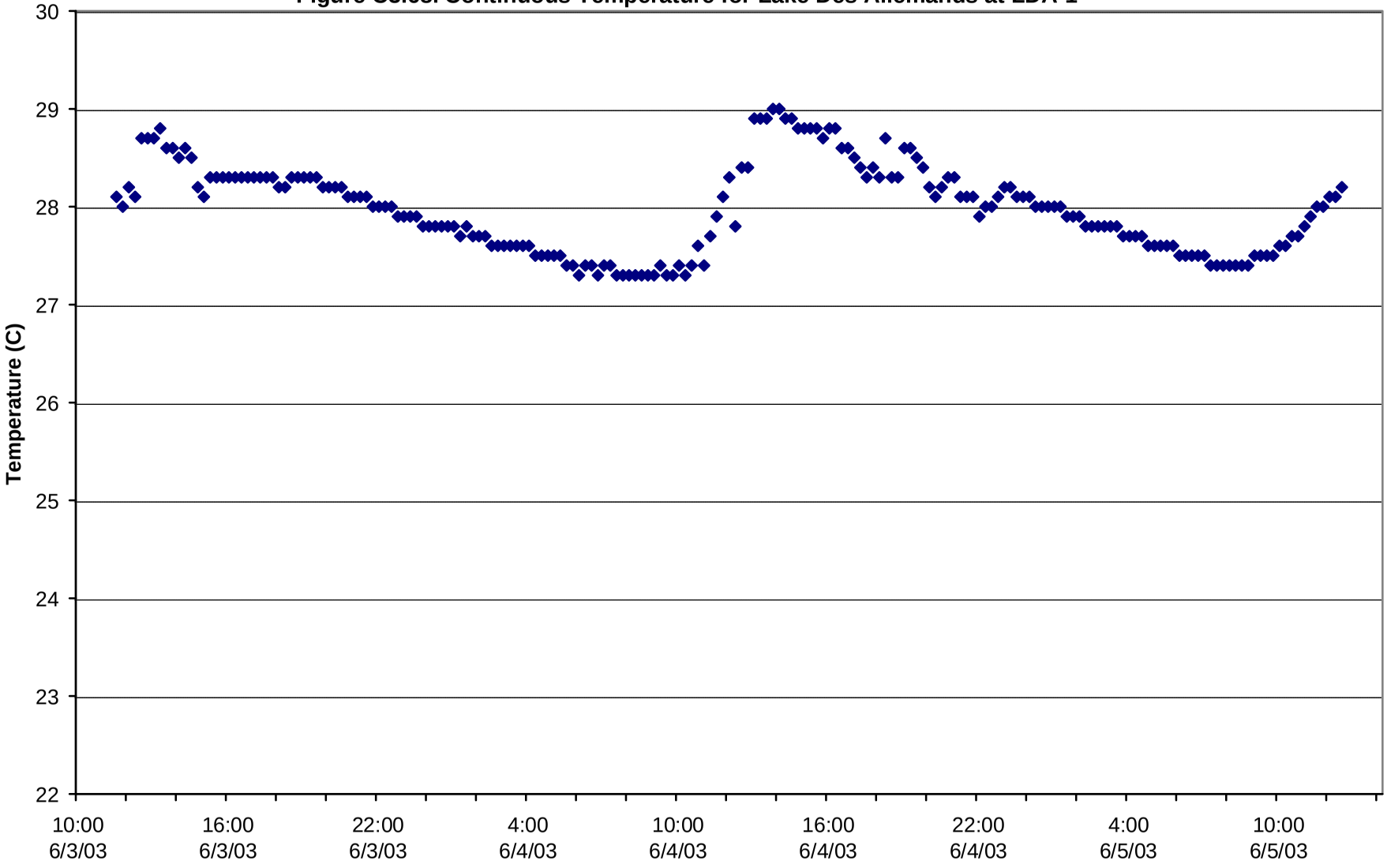


Figure C3.69. Continuous DO for Lake Des Allemands at LDA-1

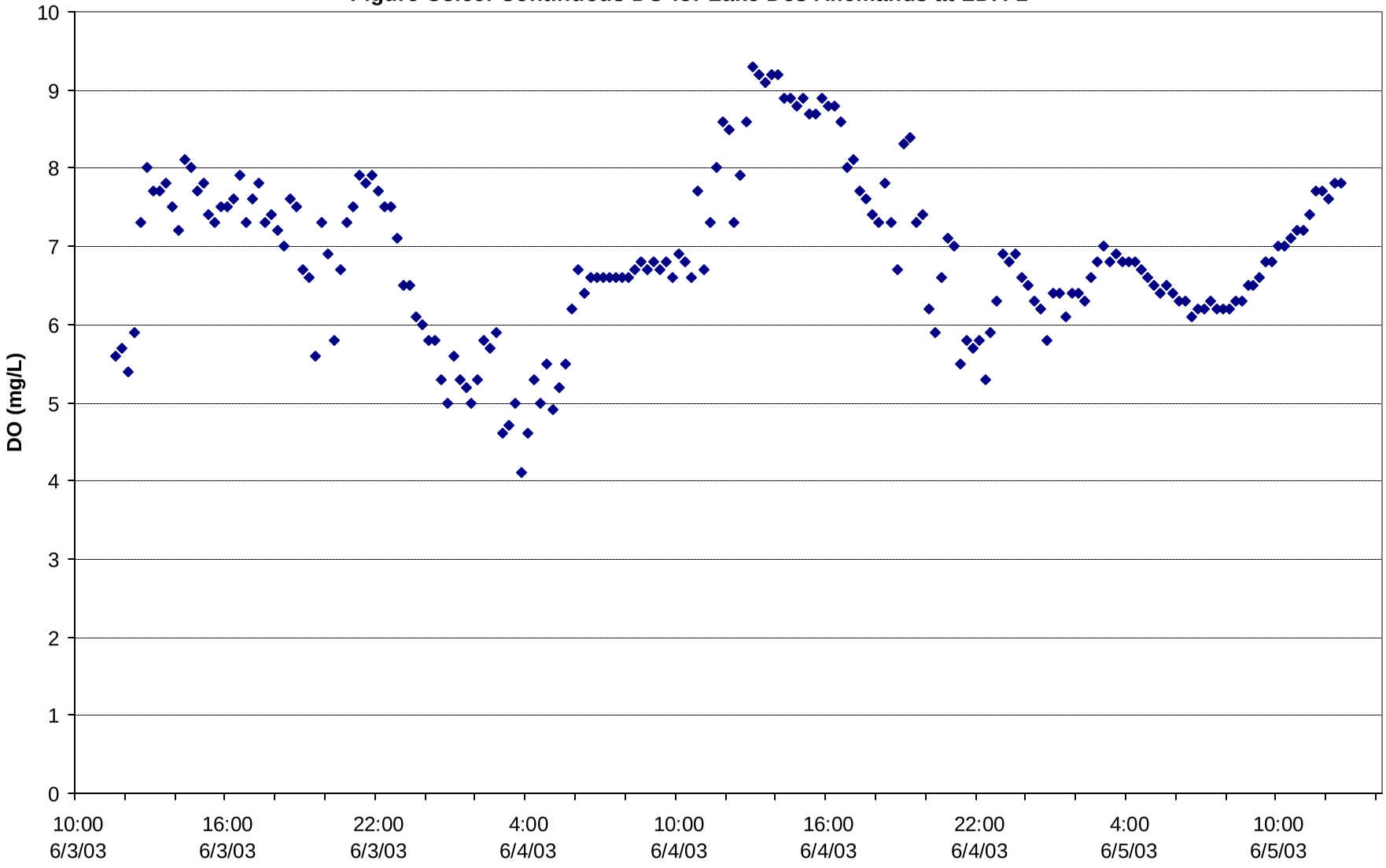


Figure C3.70. Continuous DO Percent Saturation for Lake Des Allemands at LDA-1

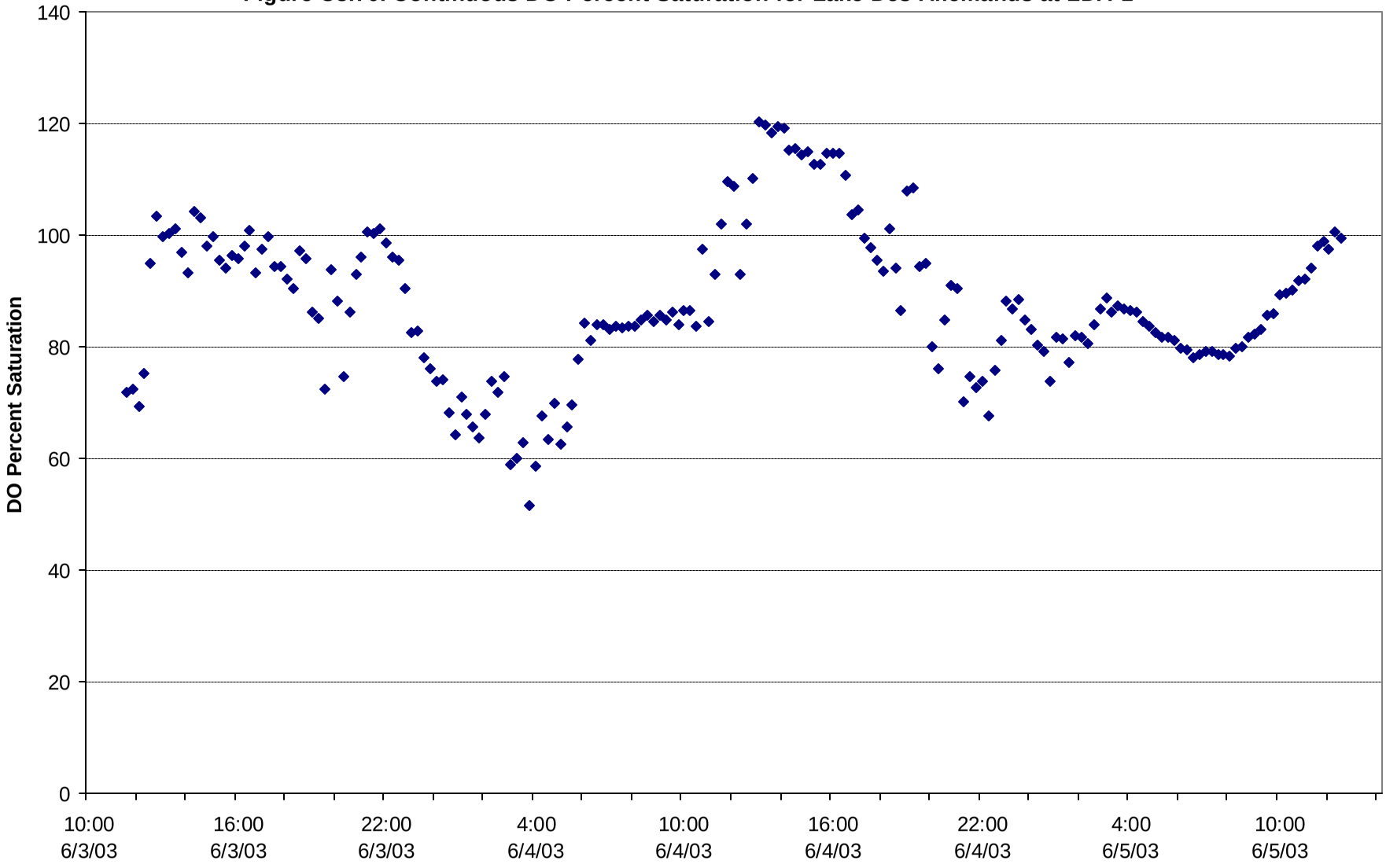


Figure C3.71. Continuous pH for Lake Des Allemands at LDA-1

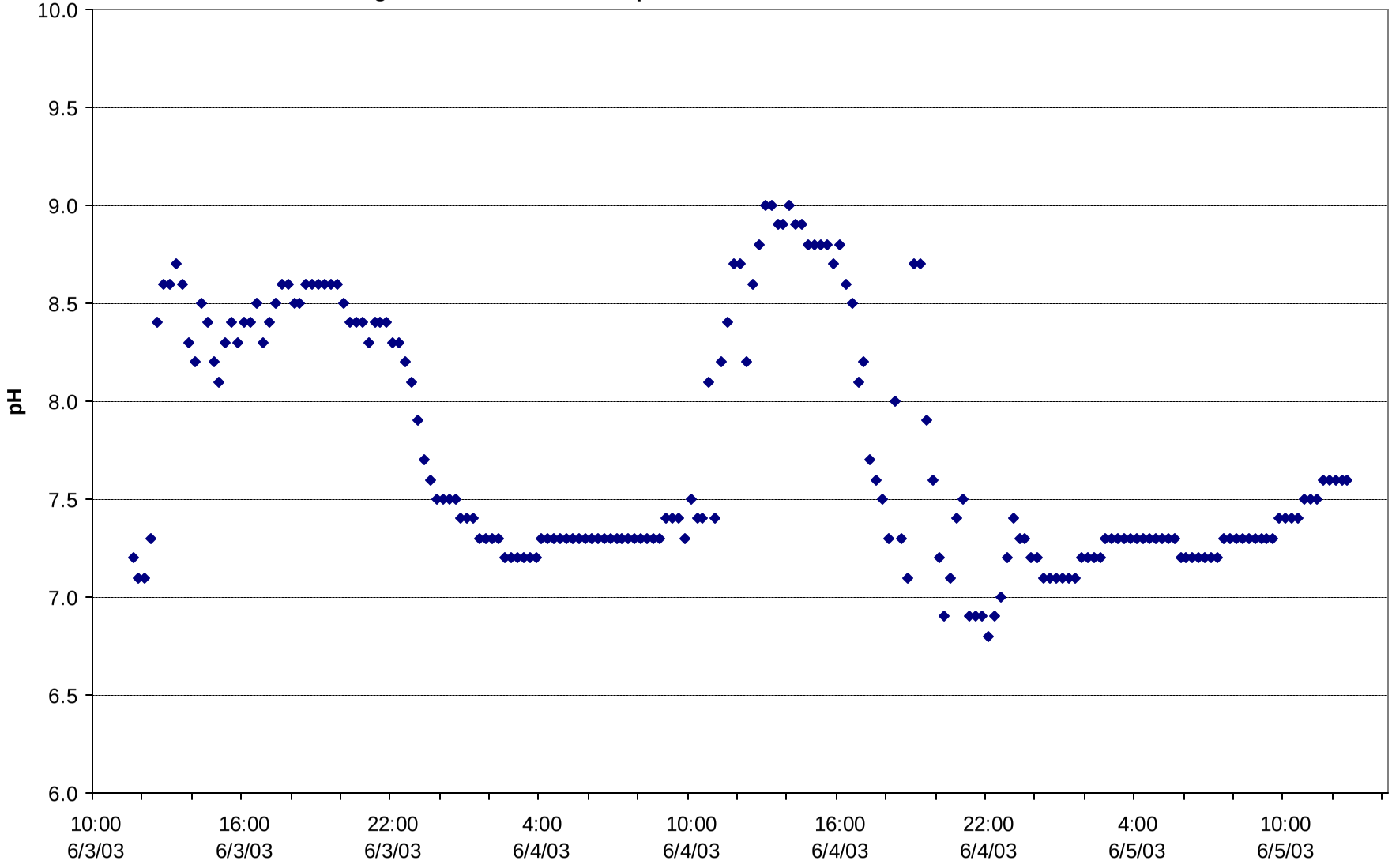
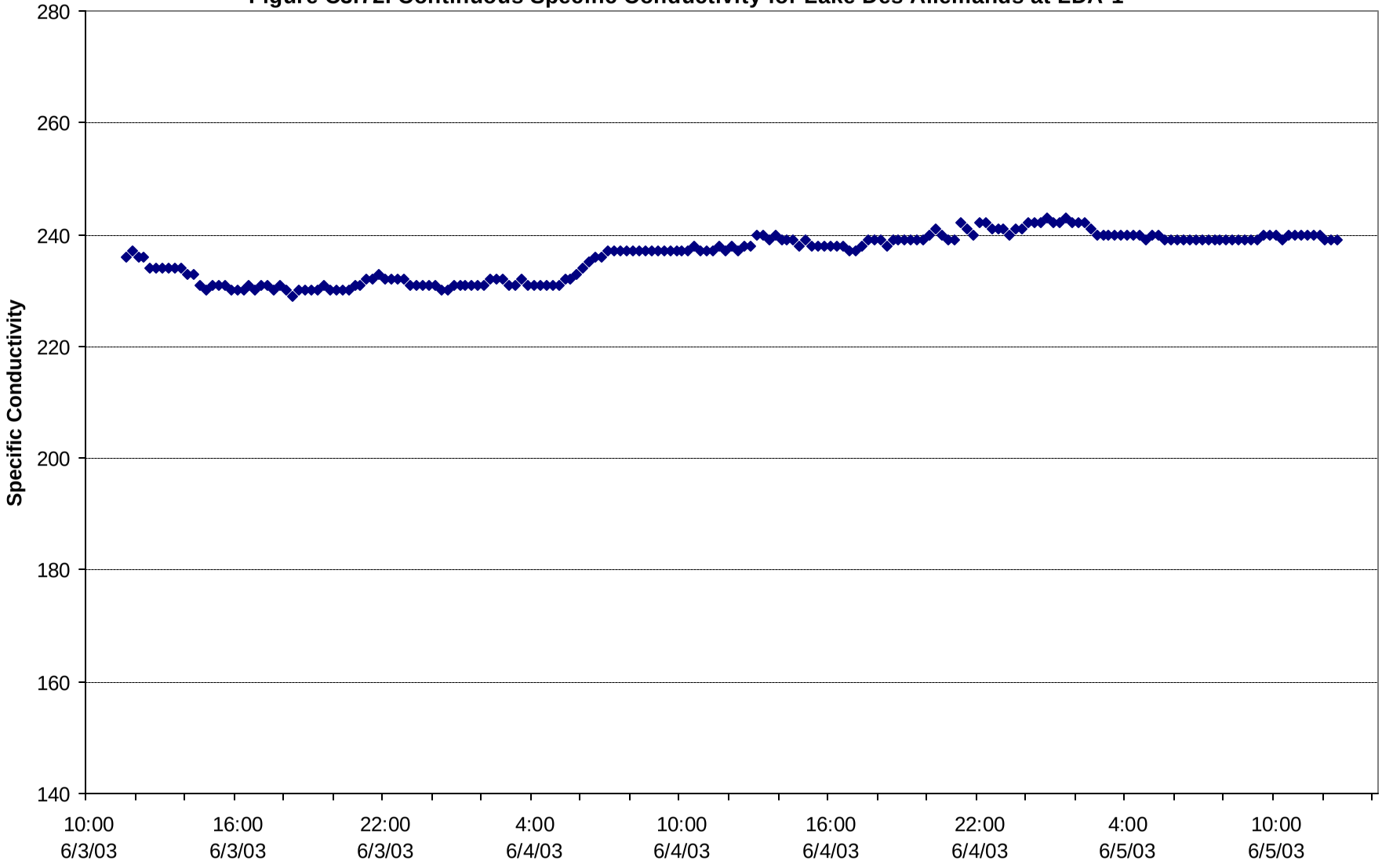


Figure C3.72. Continuous Specific Conductivity for Lake Des Allemands at LDA-1



APPENDIX C4

Results of BOD Time Series Analyses

Table C4.1. Summary of CBODu values and Rates for Bayou Chevruil System.

Sample Name	NBODu (mg/L)	NBODu rate (1/day)	CBODu (mg/L)	CBODu rate (1/day)
BCh-2, Bayou Chevreuil	4.00	0.25	10.38	0.07
Bch-2, Bayou Chevreuil,Field duplicate	4.42	0.30	11.08	0.08
Bch-4, Bayou Chevreuil	2.24	0.27	11.48	0.06
BCh-4, Bayou Chevreuil, field duplicate	2.19	0.28	11.59	0.05
AVG		**0.28**		**0.07**
BCI-2, Bayou Citamon	3.70	0.18	10.25	0.09
BCI-4, Bayou Citamon	3.15	0.22	8.10	0.12
BCI-7, Bayou Citamon	2.81	0.18	11.00	0.08
AVG		**0.19**		**0.10**
BkC-1, Baker Canal	8.40	0.04	10.02	0.09
BV-1, Bayou Verret	4.89	0.11	20.97	0.08
DBC-1,Dredge Boat Canal	4.22	0.30	10.13	0.06
GB-1,Grand Bayou	3.31	0.13	12.94	0.09
LDA-1, Lac des Allemands	4.31	0.17	14.30	0.08
SJC-1, St. James Canal	2.87	0.34	9.36	0.06
SJC-2, St. James Canal	5.63	0.15	11.96	0.08

FILE: R:\PROJECTS\3110-051\CHEVREUIL PDF\GSBOD_CHEVREUIL DATA-TABLES.XLS

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: **Subsegment 020101**

Sample Collection date: **Analysis Start date:**

Total BOD data

Item No.	Sample No.	06/05/03				06/06/03	06/09/03	06/11/03	06/13/03	06/16/03	06/20/03	06/25/03	07/03/03	07/15/03	07/25/03	08/04/03
		Daily analysis start dates:														
1	BCh-2, Bayou Chevreuil					1.0	3.7	5.0	5.7	8.3	9.7	10.9	11.7	13.8	14.5	14.9
2	Bch-2, Bayou Chevreuil,Field duplicate					1.3	4.1	5.5	6.5	9.3	11.2	12.3	13.4	15.4	15.7	16.0
3	Bch-4, Bayou Chevreuil					0.9	3.0	3.9	4.9	6.5	8.0	8.9	10.3	12.2	13.3	14.0
4	BCh-4, Bayou Chevreuil, field duplicate					0.8	2.9	3.9	4.9	6.5	7.9	8.8	10.3	12.1	13.3	14.0
5	BCI-2, Bayou Citamon					1.4	4.3	5.6	5.7	7.6	9.7	10.4	11.5	13.7	14.6	14.7
8	BkC-1, Baker Canal					1.4	4.3	5.9	7.0	9.5	11.1	12.7	13.5	15.6	16.3	19.1
9	BV-1, Bayou Verret					2.6	7.7	8.4	10.3	12.9	16.5	19.1	22.0	25.2	25.5	26.6
10	DBC-1,Dredge Boat Canal					1.2	3.8	5.1	5.7	8.3	9.2	10.8	11.5	13.6	14.4	14.8
11	GB-1,Grand Bayou					1.5	4.6	6.0	7.1	9.6	11.4	12.6	13.9	16.2	16.0	17.1
12	LDA-1, Lac des Allemands					1.6	4.6	6.1	7.5	8.3	9.5	10.9	15.5	18.0	18.5	19.2
13	SJC-1, St. James Canal					1.0	3.1	4.0	5.6	7.1	7.7	8.3	9.2	11.3	12.2	12.2
14	SJC-2, St. James Canal					1.3	4.3	5.9	7.1	10.1	12.1	13.4	14.6	17.6	17.7	18.0
15																

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

Item No.	Sample No.	06/05/03				06/06/03	06/09/03	06/11/03	06/13/03	06/16/03	06/20/03	06/25/03	07/03/03	07/15/03	07/25/03	08/04/03
		Daily analysis start dates:														
1	BCh-2, Bayou Chevreuil	1.06				1.06	1.04	1.04	1.32	1.60	1.92	1.82	1.84	1.93	1.99	2.01
2	Bch-2, Bayou Chevreuil,Field duplicate	1.17				1.06	1.08	1.00	1.36	1.80	2.12	2.00	2.14	2.12	2.14	2.20
3	Bch-4, Bayou Chevreuil	0.05				0.05	0.05	0.05	0.06	0.21	0.43	0.52	0.50	0.55	0.51	0.58
4	BCh-4, Bayou Chevreuil, field duplicate	0.05				0.05	0.05	0.05	0.07	0.23	0.43	0.51	0.50	0.55	0.50	0.57
5	BCI-2, Bayou Citamon	0.05				0.05	0.12	0.14	0.16	0.36	0.72	0.80	0.76	0.84	0.86	0.90
8	BkC-1, Baker Canal	4.44				4.52	4.52	4.84	5.02	4.99	5.43	5.43	5.67	5.60	5.47	6.59
9	BV-1, Bayou Verret	0.05				0.07	0.07	0.07	0.09	0.16	0.45	0.82	0.94	1.04	1.03	1.21
10	DBC-1,Dredge Boat Canal	0.78				0.77	0.56	0.82	1.12	1.44	1.68	1.65	1.62	1.76	1.64	1.80
11	GB-1,Grand Bayou	0.05				0.05	0.11	0.13	0.17	0.29	0.64	0.64	0.64	0.76	0.78	0.82
12	LDA-1, Lac des Allemands	0.05				0.15	0.16	0.20	0.16	0.14	0.16	0.16	0.79	0.96	0.95	1.03
13	SJC-1, St. James Canal	0.06				0.07	0.20	0.20	0.32	0.68	0.72	0.68	0.60	0.68	0.69	0.72
14	SJC-2, St. James Canal	1.36				1.36	1.20	1.40	1.80	1.91	2.37	2.44	2.51	2.64	2.52	2.64
15																

NOTE: ALL "ND"s have been replaced with .05.

FILE: R:\PROJECTS\3110-051\CHEVREUIL PDF\GSBOD_CHEVREUIL DATA-TABLES.XLS

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: **Subsegment 020101**

Sample Collection date: **Analysis Start date:**

Total BOD data

Item No.	Sample No.	Daily analysis start dates: 06/05/03					06/06/03	06/09/03	06/11/03	06/13/03	06/16/03	06/20/03	06/25/03	07/03/03	07/15/03	07/25/03
1	BCI-4, Bayou Citamon						1.0	3.5	4.5	5.7	6.2	8.1	9.3	10.4	11.5	12.1
2	BCI-7, Bayou Citamon						1.1	3.7	4.9	6.5	7.7	9.2	10.6	11.6	13.5	14.5
3																
4																
5																
6																
7																
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14																
15																

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

Item No.	Sample No.	Daily analysis start dates: 06/05/03					06/06/03	06/09/03	06/11/03	06/13/03	06/16/03	06/20/03	06/25/03	07/03/03	07/15/03	07/25/03
1	BCI-4, Bayou Citamon	0.05					0.05	0.12	0.13	0.13	0.22	0.51	0.70	0.73	0.75	0.71
2	BCI-7, Bayou Citamon	0.05					0.05	0.11	0.12	0.20	0.36	0.60	0.60	0.57	0.68	0.70
3																
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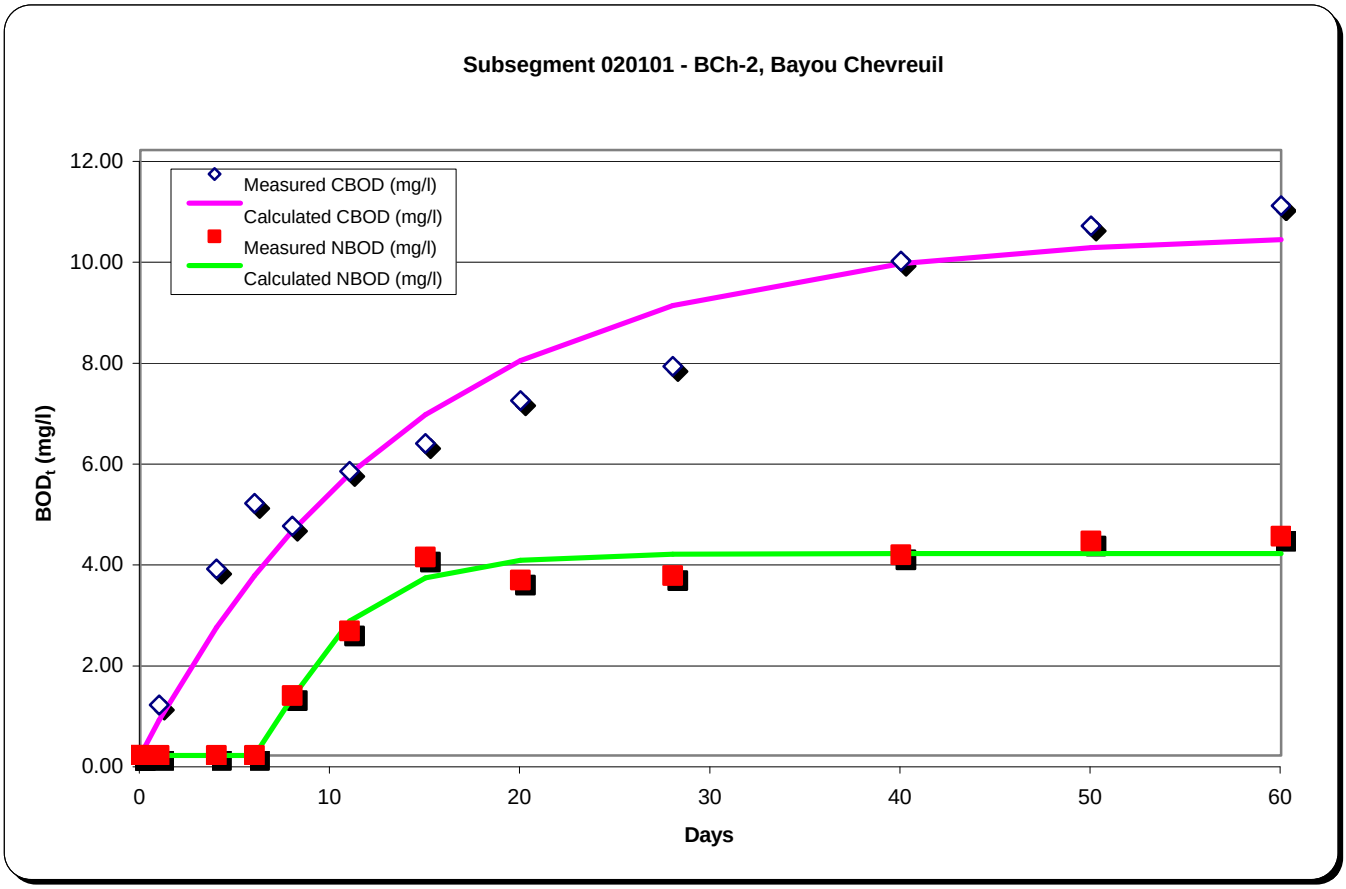
NOTE: ALL "ND"s have been replaced with .05.

FILE: R:\PROJECTS\3110-051\CHEVREUIL PDF\GSBOD_CHEVREUIL DATA-9PT.XLS

BOD Analysis of the for: **Subsegment 020101 - BCh-2, Bayou Chevreuil**

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		1.06				
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	1.0	1.06	0.00	1.00	0.00	0.70
4	3.7	1.04	0.00	3.70	0.00	2.54
6	5.0	1.04	0.00	5.00	0.00	3.56
8	5.7	1.32	1.19	4.55	1.15	4.45
11	8.3	1.60	2.47	5.63	2.67	5.58
15	9.7	1.92	3.93	6.18	3.52	6.75
20	10.9	1.82	3.47	7.03	3.87	7.82
28	11.7	1.84	3.56	7.71	3.99	8.92
40	13.8	1.93	3.98	9.80	4.00	9.75
50	14.5	1.99	4.25	10.50	4.00	10.06
60	14.9	2.01	4.34	10.90	4.00	10.22

4.00	10.38	**UBOD (mg/l)**
0.25	0.07	**k rate (1/day)**
6.66	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.

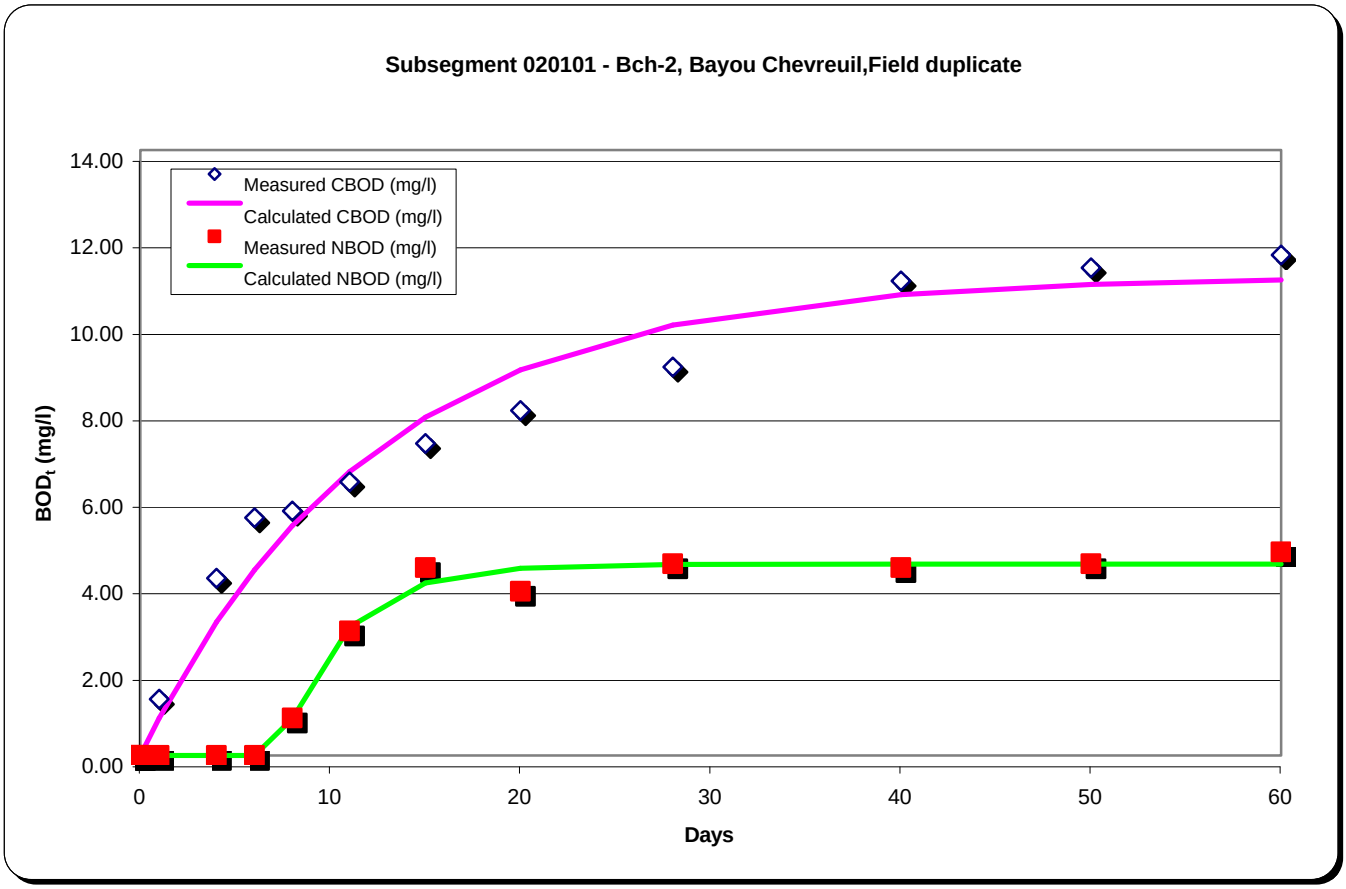
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Subsegment 020101 - Bch-2, Bayou Chevreuil,Field duplicate**

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		1.17				
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	1.3	1.06	0.00	1.30	0.00	0.87
4	4.1	1.08	0.00	4.10	0.00	3.09
6	5.5	1.00	0.00	5.50	0.00	4.29
8	6.5	1.36	0.87	5.65	0.85	5.31
11	9.3	1.80	2.88	6.33	2.97	6.56
15	11.2	2.12	4.34	7.21	3.99	7.82
20	12.3	2.00	3.79	7.97	4.33	8.91
28	13.4	2.14	4.43	8.98	4.42	9.95
40	15.4	2.12	4.34	10.98	4.42	10.66
50	15.7	2.14	4.43	11.28	4.42	10.89
60	16.0	2.20	4.71	11.58	4.42	11.00

4.42	11.08	**UBOD (mg/l)**
0.30	0.08	**k rate (1/day)**
7.29	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.

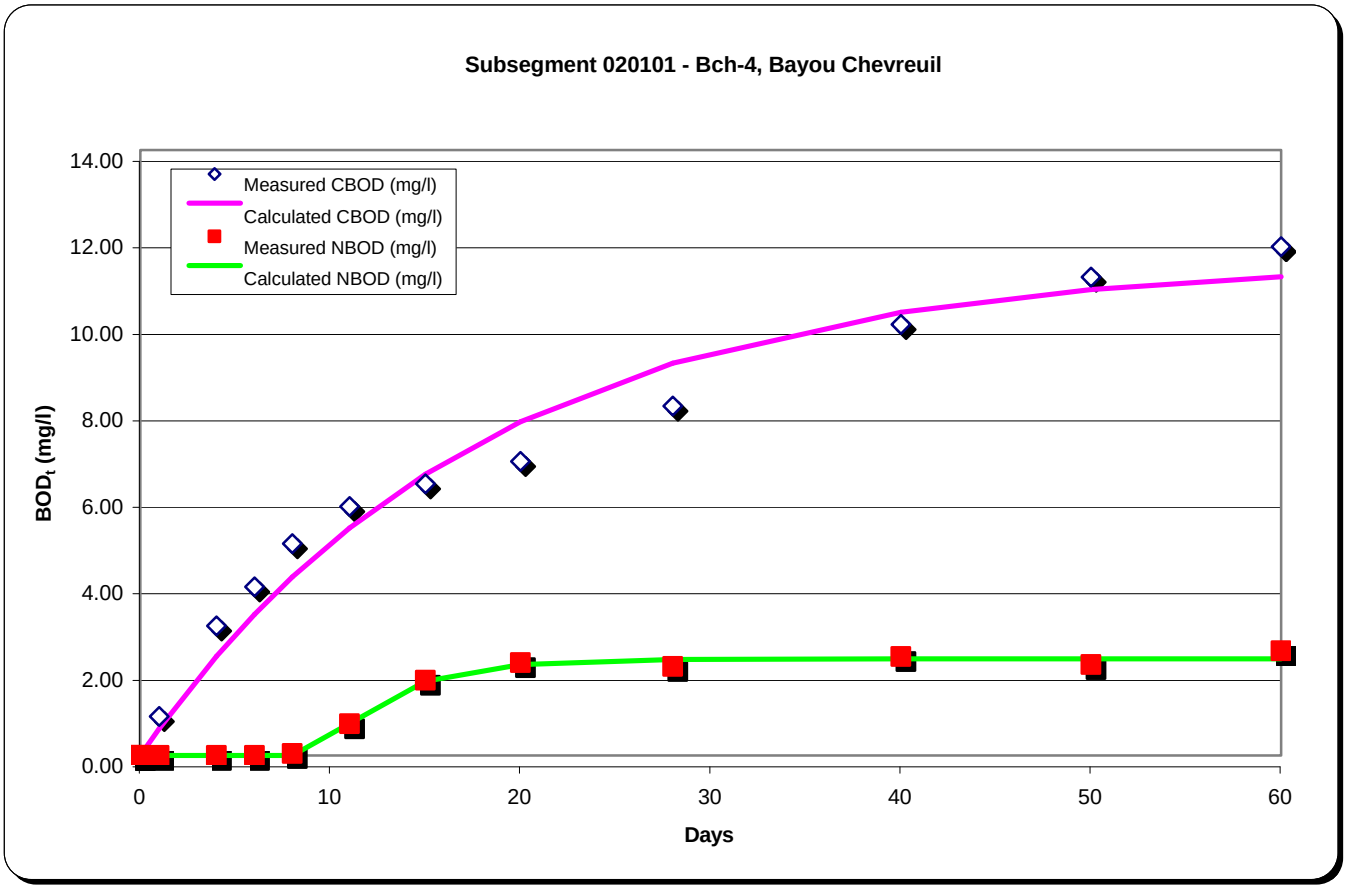
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Subsegment 020101 - Bch-4, Bayou Chevreuil**

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		0.05				
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	0.9	0.05	0.00	0.90	0.00	0.62
4	3.0	0.05	0.00	3.00	0.00	2.30
6	3.9	0.05	0.00	3.90	0.00	3.27
8	4.9	0.06	0.05	4.90	0.00	4.13
11	6.5	0.21	0.73	5.76	0.74	5.26
15	8.0	0.43	1.74	6.28	1.72	6.51
20	8.9	0.52	2.15	6.80	2.10	7.72
28	10.3	0.50	2.06	8.08	2.22	9.07
40	12.2	0.55	2.29	9.97	2.23	10.25
50	13.3	0.51	2.10	11.06	2.24	10.77
60	14.0	0.58	2.42	11.76	2.24	11.07

2.24	11.48	**UBOD (mg/l)**
0.27	0.06	**k rate (1/day)**
9.48	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.

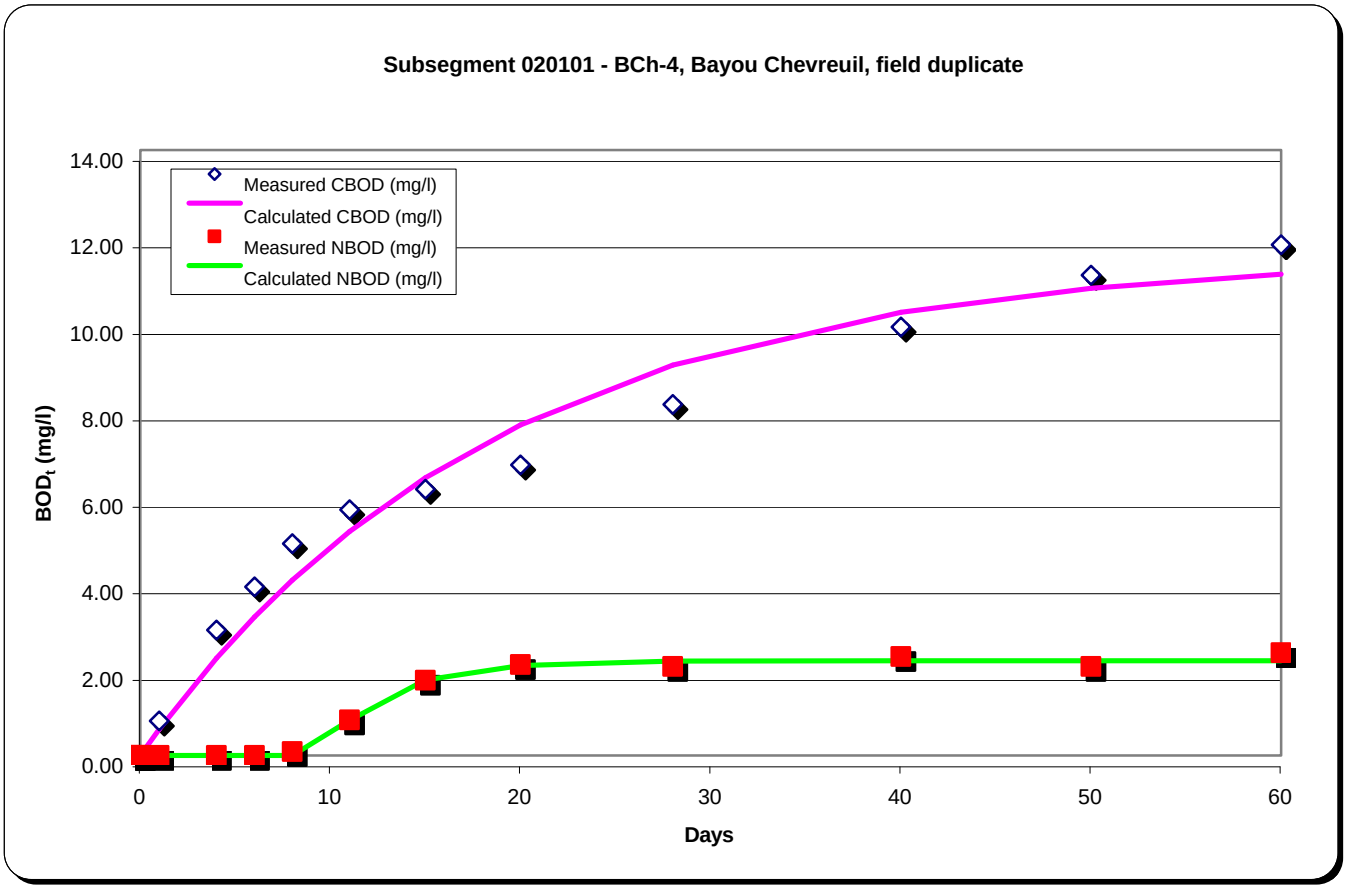
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Subsegment 020101 - BCh-4, Bayou Chevreuil, field duplicate**

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		0.05				
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	0.8	0.05	0.00	0.80	0.00	0.61
4	2.9	0.05	0.00	2.90	0.00	2.25
6	3.9	0.05	0.00	3.90	0.00	3.20
8	4.9	0.07	0.09	4.90	0.00	4.06
11	6.5	0.23	0.82	5.68	0.82	5.18
15	7.9	0.43	1.74	6.16	1.74	6.42
20	8.8	0.51	2.10	6.72	2.08	7.64
28	10.3	0.50	2.06	8.12	2.18	9.02
40	12.1	0.55	2.29	9.91	2.19	10.24
50	13.3	0.50	2.06	11.11	2.19	10.80
60	14.0	0.57	2.38	11.81	2.19	11.13

2.19	11.59	**UBOD (mg/l)**
0.28	0.05	**k rate (1/day)**
9.33	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.

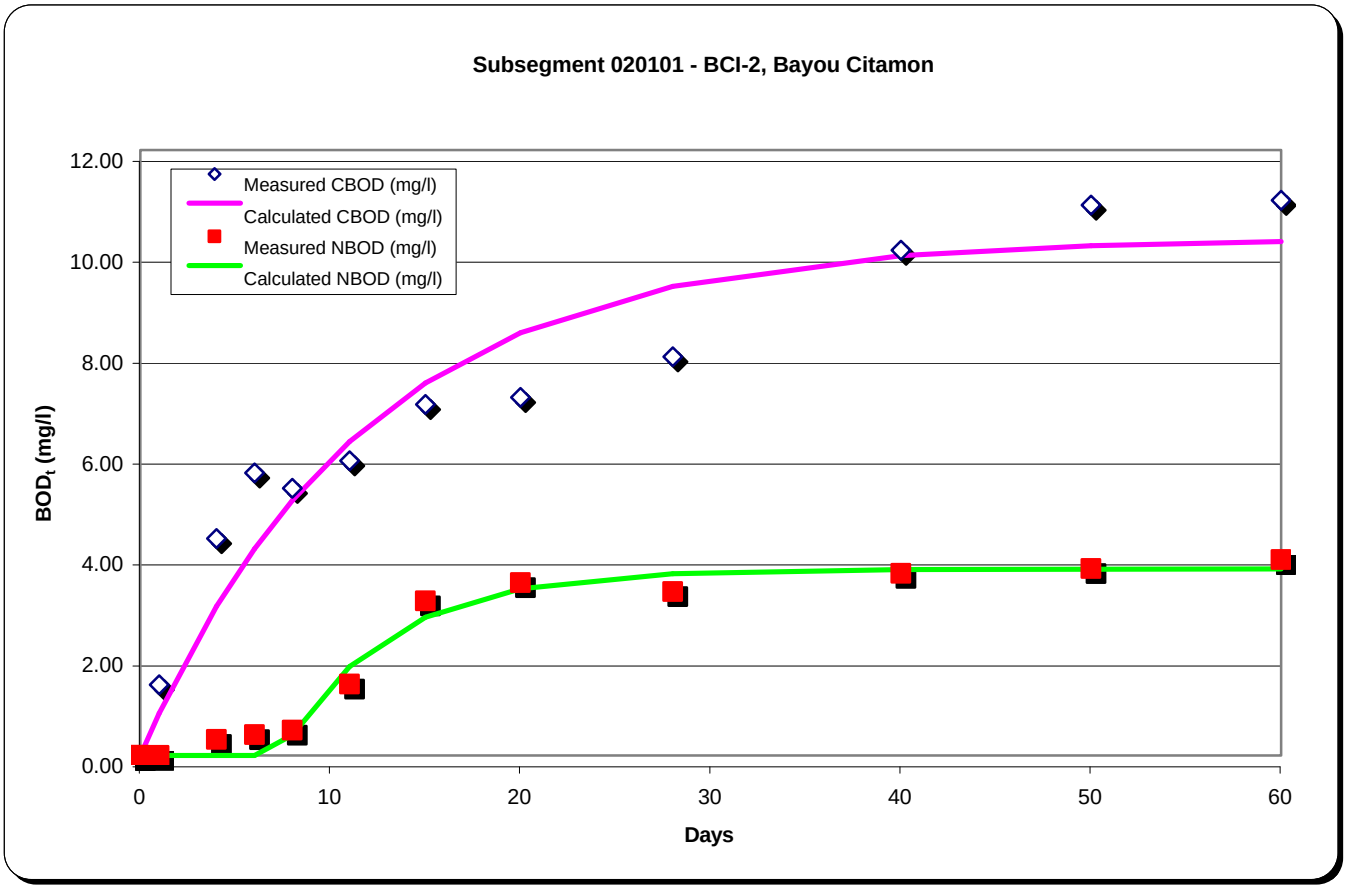
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Subsegment 020101 - BCI-2, Bayou Citamon**

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		0.05				
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	1.4	0.05	0.00	1.40	0.00	0.84
4	4.3	0.12	0.32	4.30	0.00	2.95
6	5.6	0.14	0.41	5.60	0.00	4.09
8	5.7	0.16	0.50	5.29	0.41	5.06
11	7.6	0.36	1.42	5.84	1.76	6.22
15	9.7	0.72	3.06	6.96	2.74	7.38
20	10.4	0.80	3.43	7.10	3.30	8.38
28	11.5	0.76	3.24	7.90	3.60	9.30
40	13.7	0.84	3.61	10.02	3.68	9.91
50	14.6	0.86	3.70	10.91	3.69	10.10
60	14.7	0.90	3.88	11.00	3.70	10.18

3.70	10.25	**UBOD (mg/l)**
0.18	0.09	**k rate (1/day)**
7.34	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.

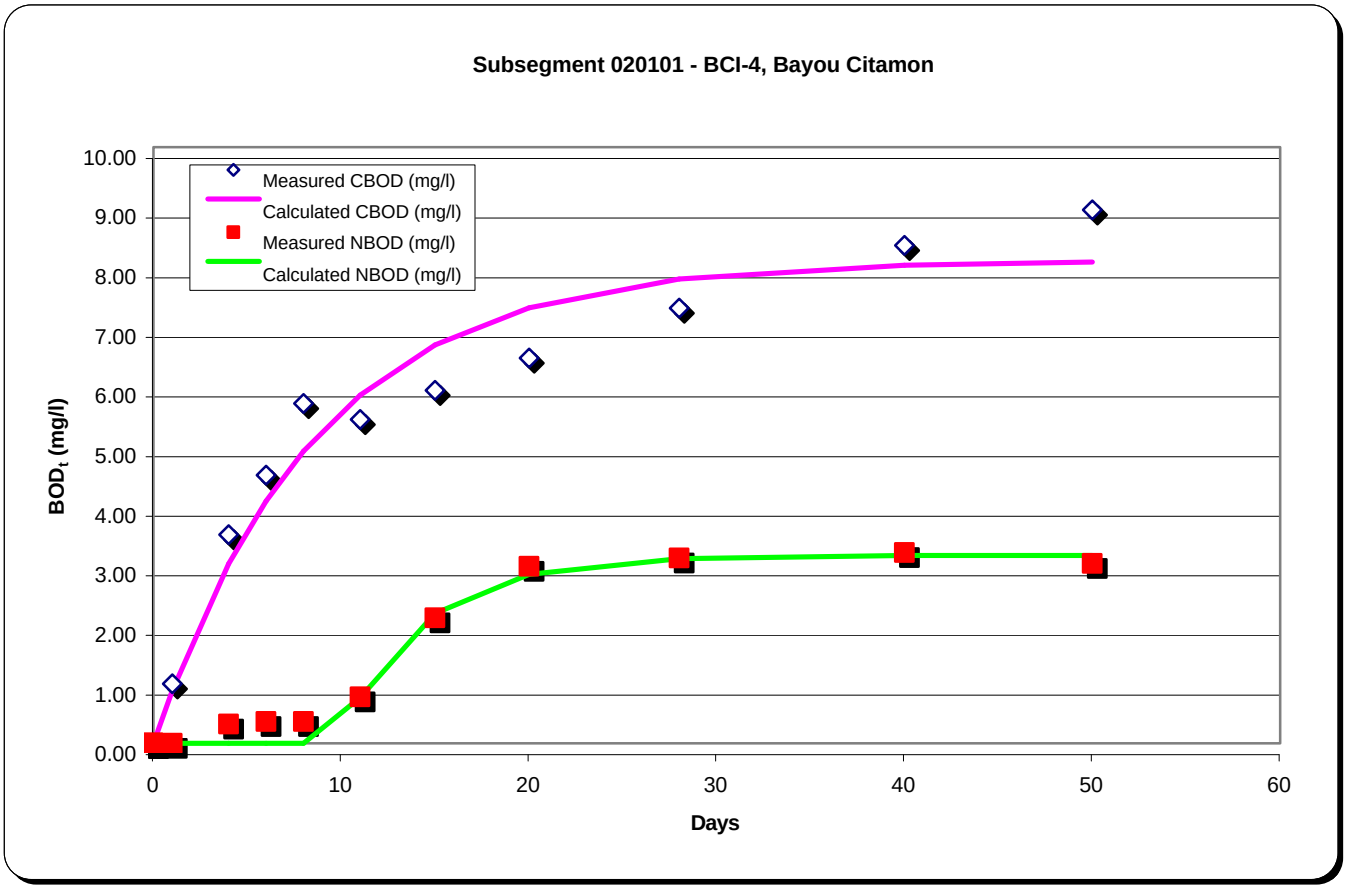
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

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: **Subsegment 020101 - BCI-4, Bayou Citamon**

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		0.05					
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	
0	0.00	0.00			0.00	0.00	
1	1.0	0.05	0.00	1.00	0.00	0.89	
4	3.5	0.12	0.32	3.50	0.00	3.01	
6	4.5	0.13	0.37	4.50	0.00	4.06	
8	5.7	0.13	0.37	5.70	0.00	4.90	
11	6.2	0.22	0.78	5.43	0.77	5.84	
15	8.1	0.51	2.10	5.92	2.18	6.68	
20	9.3	0.70	2.97	6.46	2.84	7.31	
28	10.4	0.73	3.11	7.30	3.10	7.79	
40	11.5	0.75	3.20	8.35	3.15	8.02	
50	12.1	0.71	3.02	8.95	3.15	8.07	
					3.15	8.10	**UBOD (mg/l)**
					0.22	0.12	**k rate (1/day)**
					9.75	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.

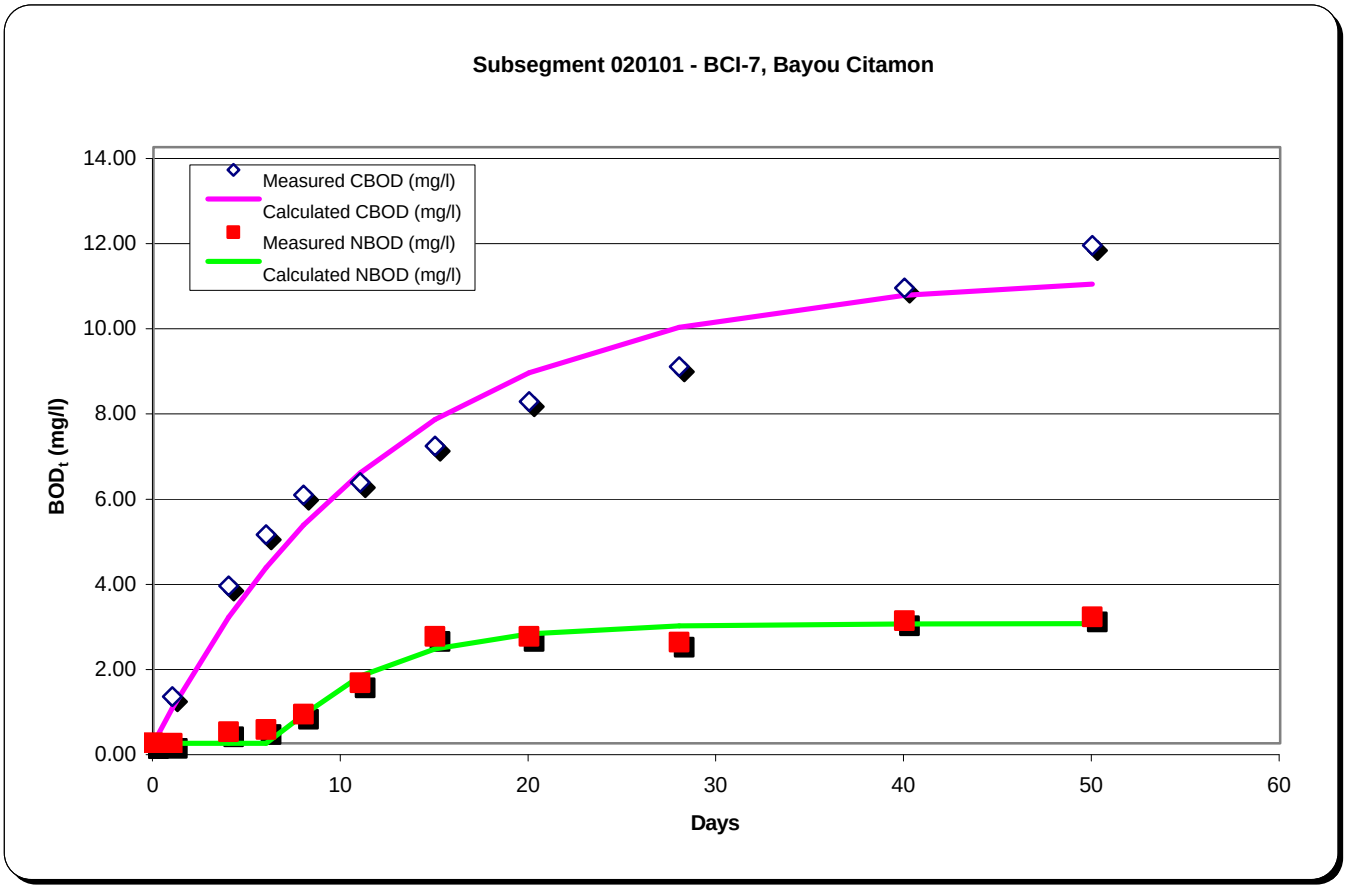
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Subsegment 020101 - BCI-7, Bayou Citamon**

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		0.05				
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
0	0.00	0.00			0.00	0.00
1	1.1	0.05	0.00	1.10	0.00	0.83
4	3.7	0.11	0.27	3.70	0.00	2.96
6	4.9	0.12	0.32	4.90	0.00	4.12
8	6.5	0.20	0.69	5.83	0.67	5.12
11	7.7	0.36	1.42	6.12	1.58	6.35
15	9.2	0.60	2.51	6.98	2.22	7.60
20	10.6	0.60	2.51	8.03	2.57	8.70
28	11.6	0.57	2.38	8.85	2.75	9.77
40	13.5	0.68	2.88	10.70	2.80	10.52
50	14.5	0.70	2.97	11.69	2.81	10.78

2.81	11.00	**UBOD (mg/l)**
0.18	0.08	**k rate (1/day)**
6.51	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.

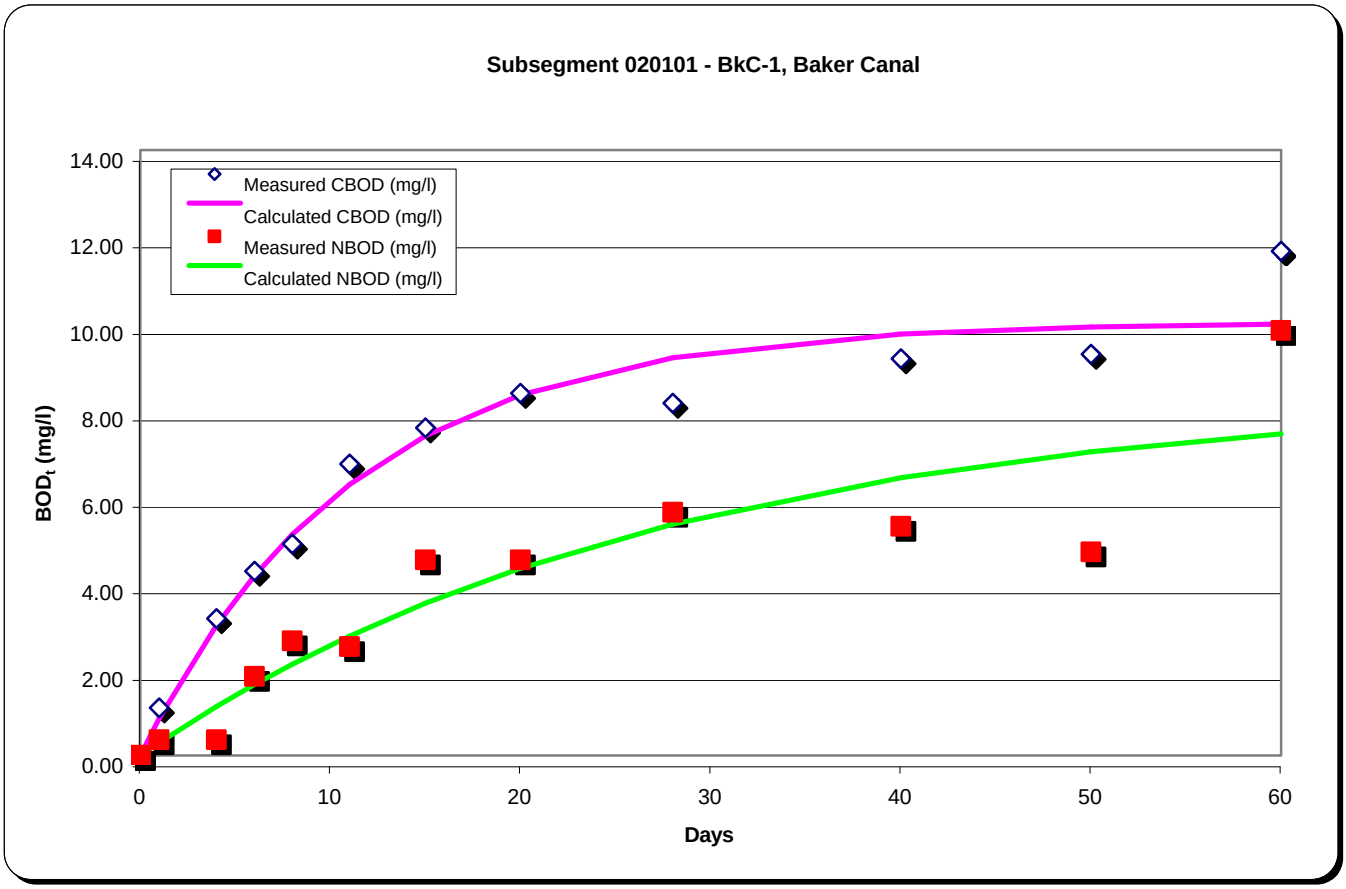
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Subsegment 020101 - BkC-1, Baker 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		4.44				
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	1.4	4.52	0.37	1.10	0.30	0.86
4	4.3	4.52	0.37	3.17	1.13	3.01
6	5.9	4.84	1.83	4.26	1.64	4.16
8	7.0	5.02	2.65	4.89	2.11	5.11
11	9.5	4.99	2.51	6.74	2.76	6.27
15	11.1	5.43	4.52	7.58	3.52	7.40
20	12.7	5.43	4.52	8.37	4.33	8.34
28	13.5	5.67	5.62	8.15	5.35	9.20
40	15.6	5.60	5.30	9.18	6.42	9.74
50	16.3	5.47	4.71	9.28	7.02	9.91
60	19.1	6.59	9.83	11.66	7.44	9.98

8.40	10.02	**UBOD (mg/l)**
0.04	0.09	**k rate (1/day)**
0.00	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.

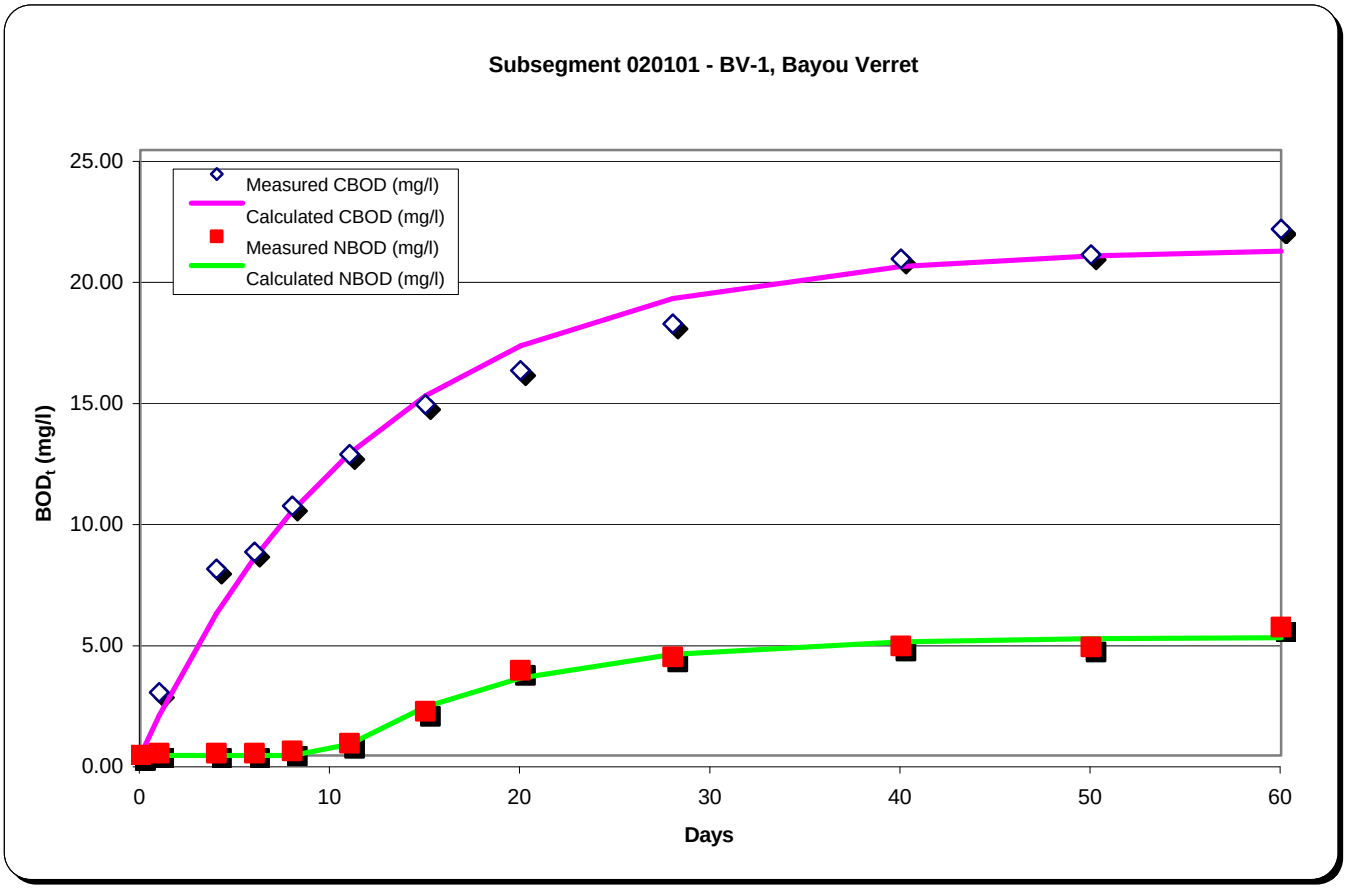
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Subsegment 020101 - BV-1, Bayou Verret**

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		0.05				
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	2.6	0.07	0.09	2.60	0.00	1.65
4	7.7	0.07	0.09	7.70	0.00	5.87
6	8.4	0.07	0.09	8.40	0.00	8.16
8	10.3	0.09	0.18	10.30	0.00	10.10
11	12.9	0.16	0.50	12.43	0.47	12.48
15	16.5	0.45	1.83	14.49	2.01	14.85
20	19.1	0.82	3.52	15.90	3.20	16.91
28	22.0	0.94	4.07	17.83	4.17	18.87
40	25.2	1.04	4.52	20.51	4.69	20.19
50	25.5	1.03	4.48	20.68	4.82	20.63
60	26.6	1.21	5.30	21.73	4.87	20.82

4.89	20.97	**UBOD (mg/l)**
0.11	0.08	**k rate (1/day)**
10.06	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.

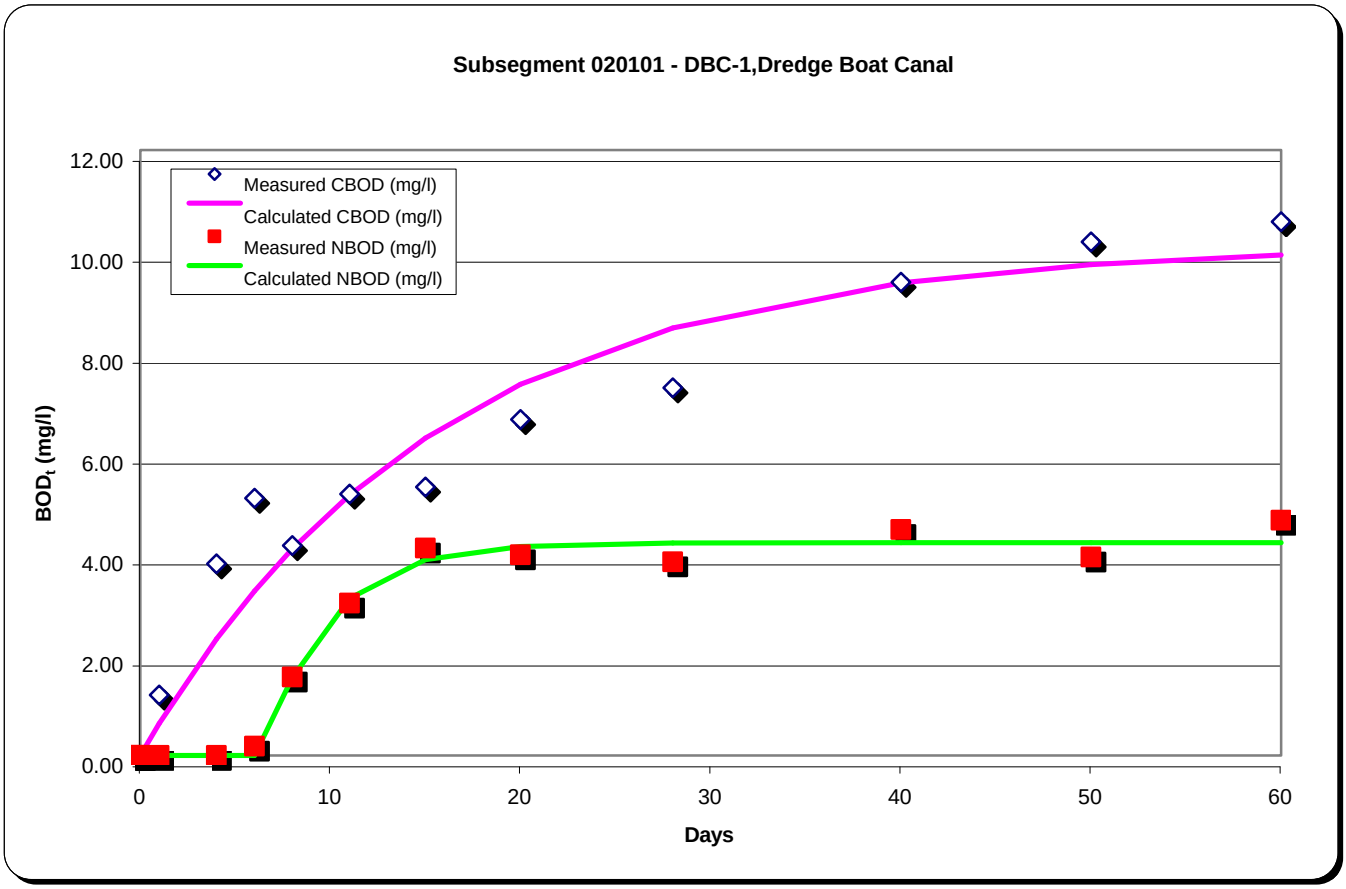
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Subsegment 020101 - DBC-1,Dredge Boat 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		0.78				
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	1.2	0.77	0.00	1.20	0.00	0.64
4	3.8	0.56	0.00	3.80	0.00	2.31
6	5.1	0.82	0.18	5.10	0.00	3.26
8	5.7	1.12	1.55	4.16	1.54	4.10
11	8.3	1.44	3.02	5.18	3.12	5.16
15	9.2	1.68	4.11	5.32	3.88	6.29
20	10.8	1.65	3.98	6.66	4.14	7.36
28	11.5	1.62	3.84	7.29	4.21	8.48
40	13.6	1.76	4.48	9.38	4.22	9.37
50	14.4	1.64	3.93	10.18	4.22	9.73
60	14.8	1.80	4.66	10.58	4.22	9.92

4.22	10.13	**UBOD (mg/l)**
0.30	0.06	**k rate (1/day)**
6.47	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.

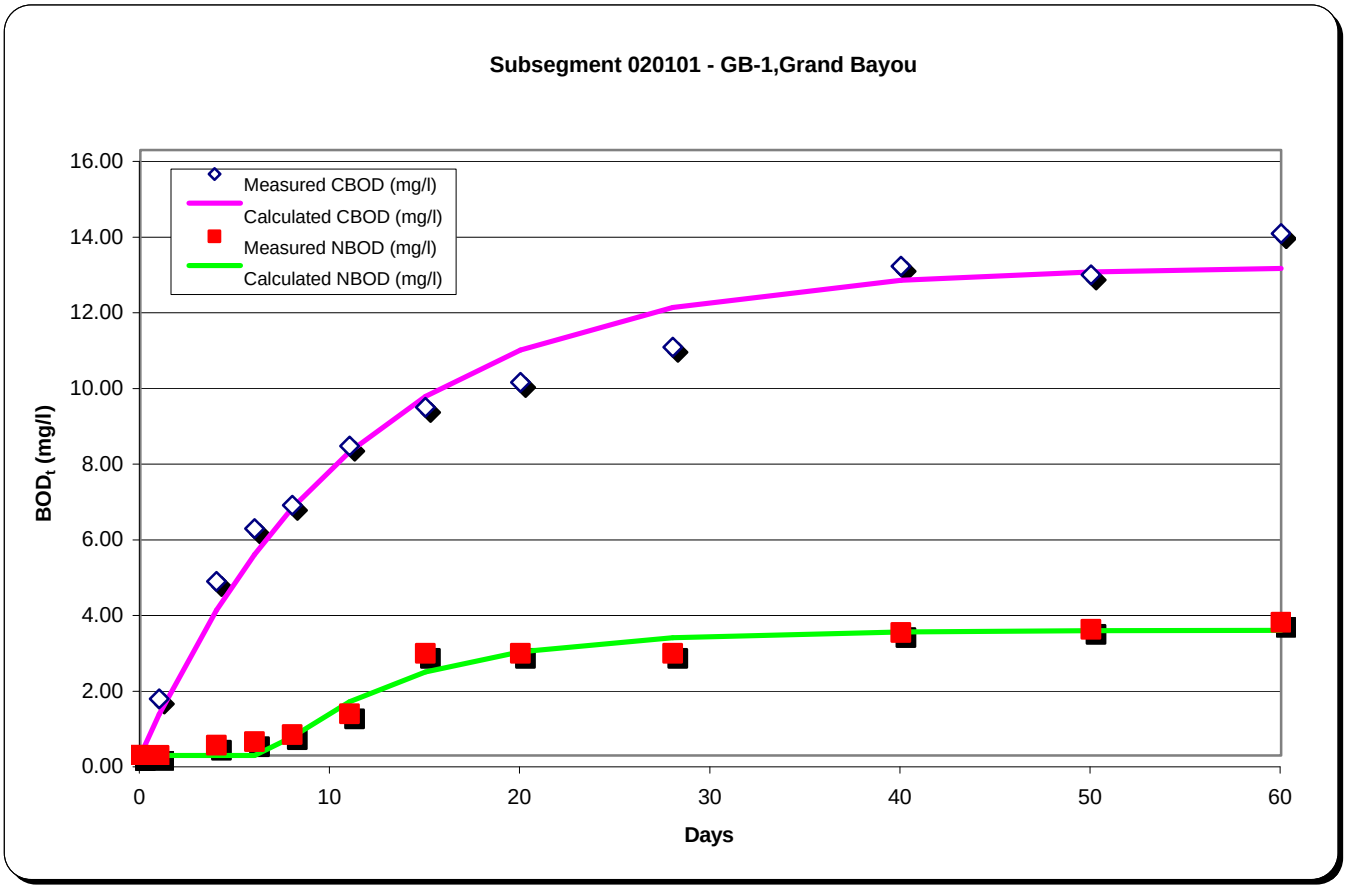
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Subsegment 020101 - GB-1,Grand 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		0.05				
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	1.5	0.05	0.00	1.50	0.00	1.09
4	4.6	0.11	0.27	4.60	0.00	3.84
6	6.0	0.13	0.37	6.00	0.00	5.31
8	7.1	0.17	0.55	6.61	0.49	6.54
11	9.6	0.29	1.10	8.18	1.42	8.03
15	11.4	0.64	2.70	9.20	2.20	9.49
20	12.6	0.64	2.70	9.86	2.74	10.72
28	13.9	0.64	2.70	10.79	3.11	11.84
40	16.2	0.76	3.24	12.93	3.27	12.56
50	16.0	0.78	3.34	12.70	3.30	12.78
60	17.1	0.82	3.52	13.80	3.30	12.87

3.31	12.94	**UBOD (mg/l)**
0.13	0.09	**k rate (1/day)**
6.81	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.

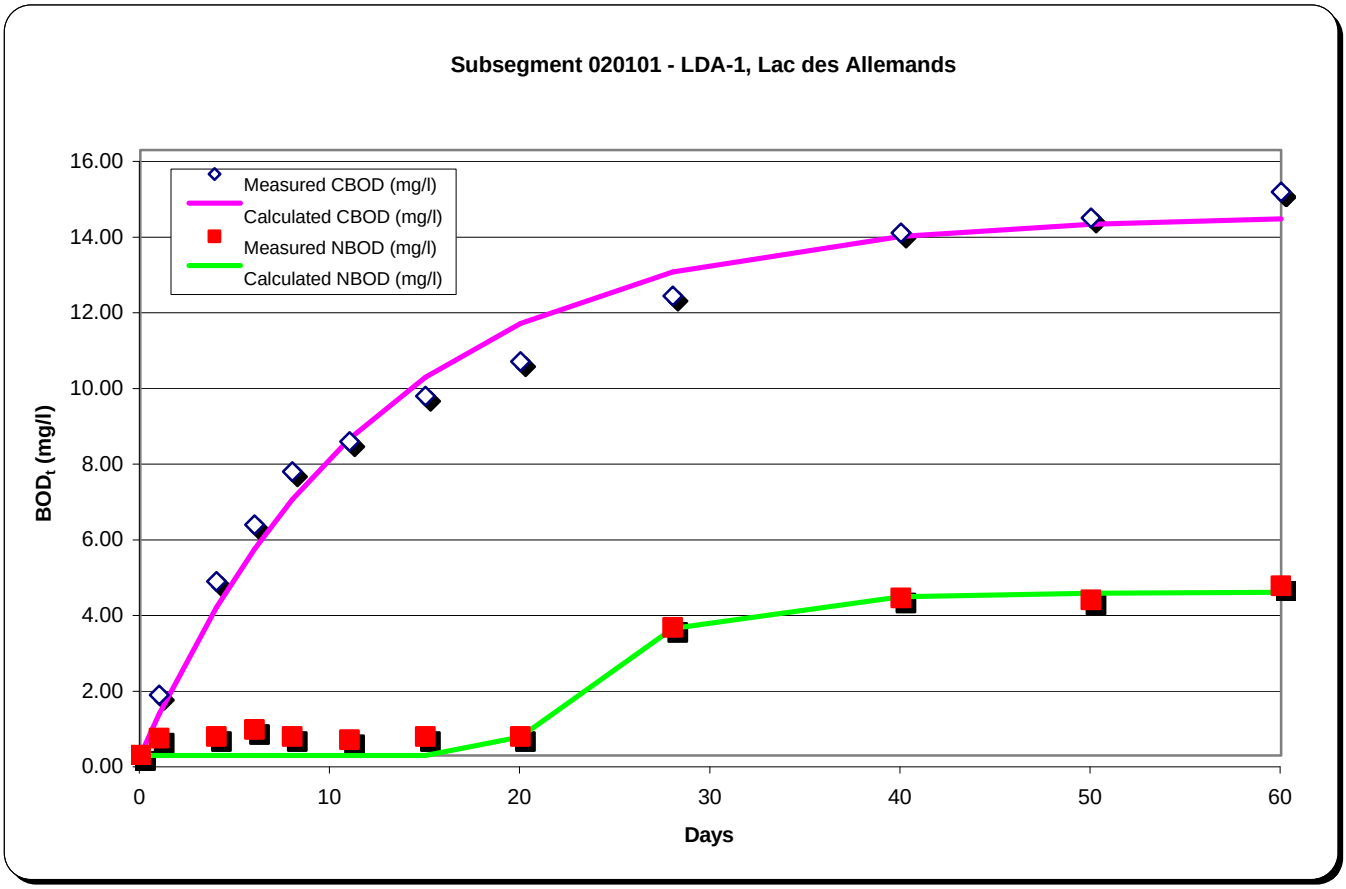
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Subsegment 020101 - LDA-1, Lac des Allemands**

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		0.05				
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	1.6	0.15	0.46	1.60	0.00	1.10
4	4.6	0.16	0.50	4.60	0.00	3.92
6	6.1	0.20	0.69	6.10	0.00	5.45
8	7.5	0.16	0.50	7.50	0.00	6.76
11	8.3	0.14	0.41	8.30	0.00	8.37
15	9.5	0.16	0.50	9.50	0.00	9.99
20	10.9	0.16	0.50	10.41	0.49	11.41
28	15.5	0.79	3.38	12.14	3.36	12.78
40	18.0	0.96	4.16	13.81	4.19	13.71
50	18.5	0.95	4.11	14.21	4.29	14.04
60	19.2	1.03	4.48	14.89	4.31	14.18

4.31	14.30	**UBOD (mg/l)**
0.17	0.08	**k rate (1/day)**
19.30	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.

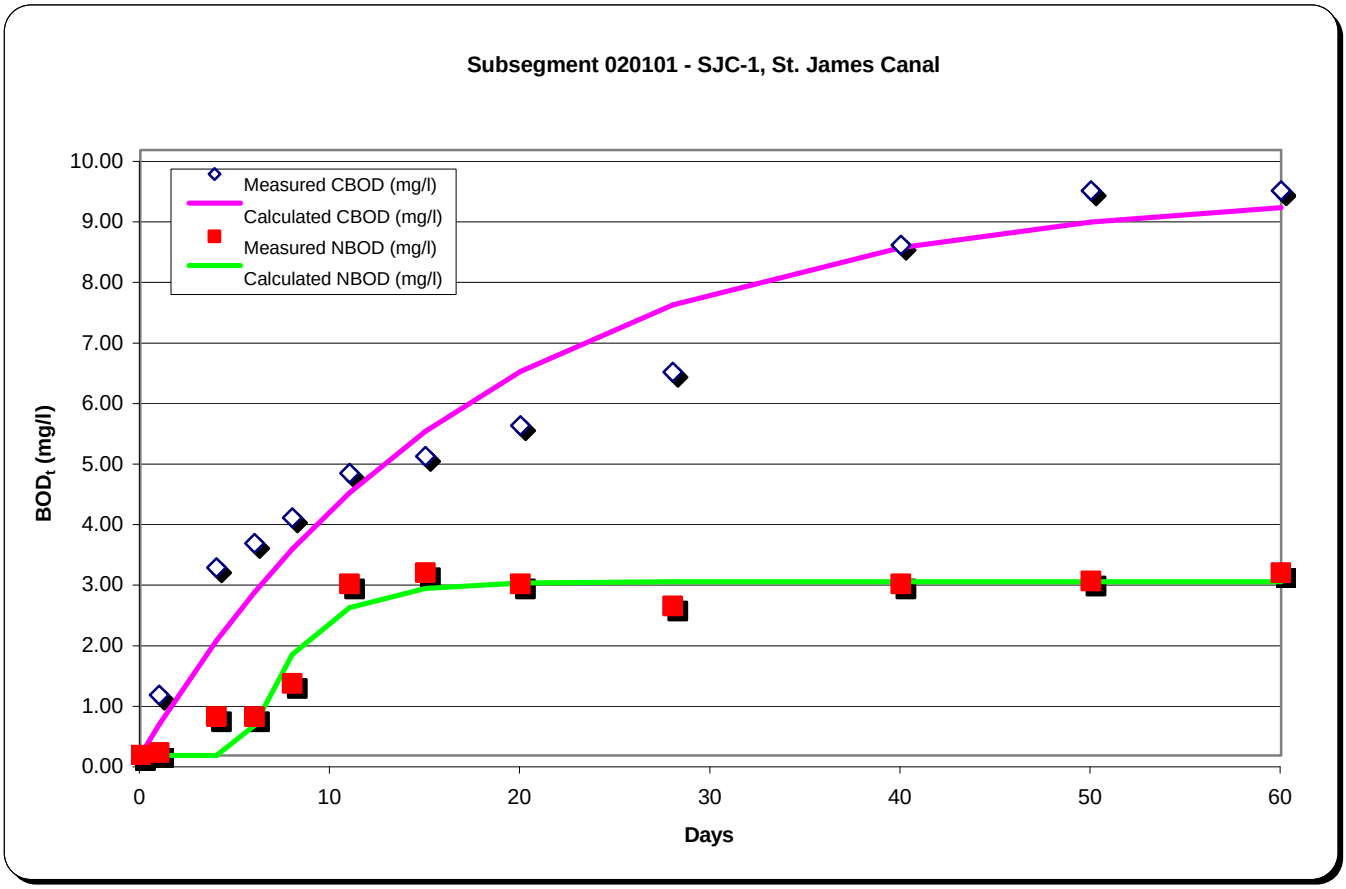
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Subsegment 020101 - SJC-1, St. James 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		0.06				
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	1.0	0.07	0.05	1.00	0.00	0.51
4	3.1	0.20	0.64	3.10	0.00	1.90
6	4.0	0.20	0.64	3.50	0.50	2.69
8	5.6	0.32	1.19	3.93	1.67	3.41
11	7.1	0.68	2.83	4.66	2.44	4.34
15	7.7	0.72	3.02	4.94	2.76	5.35
20	8.3	0.68	2.83	5.45	2.85	6.34
28	9.2	0.60	2.47	6.33	2.87	7.44
40	11.3	0.68	2.83	8.43	2.87	8.39
50	12.2	0.69	2.88	9.33	2.87	8.81
60	12.2	0.72	3.02	9.33	2.87	9.05

2.87	9.36	**UBOD (mg/l)**
0.34	0.06	**k rate (1/day)**
5.44	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.

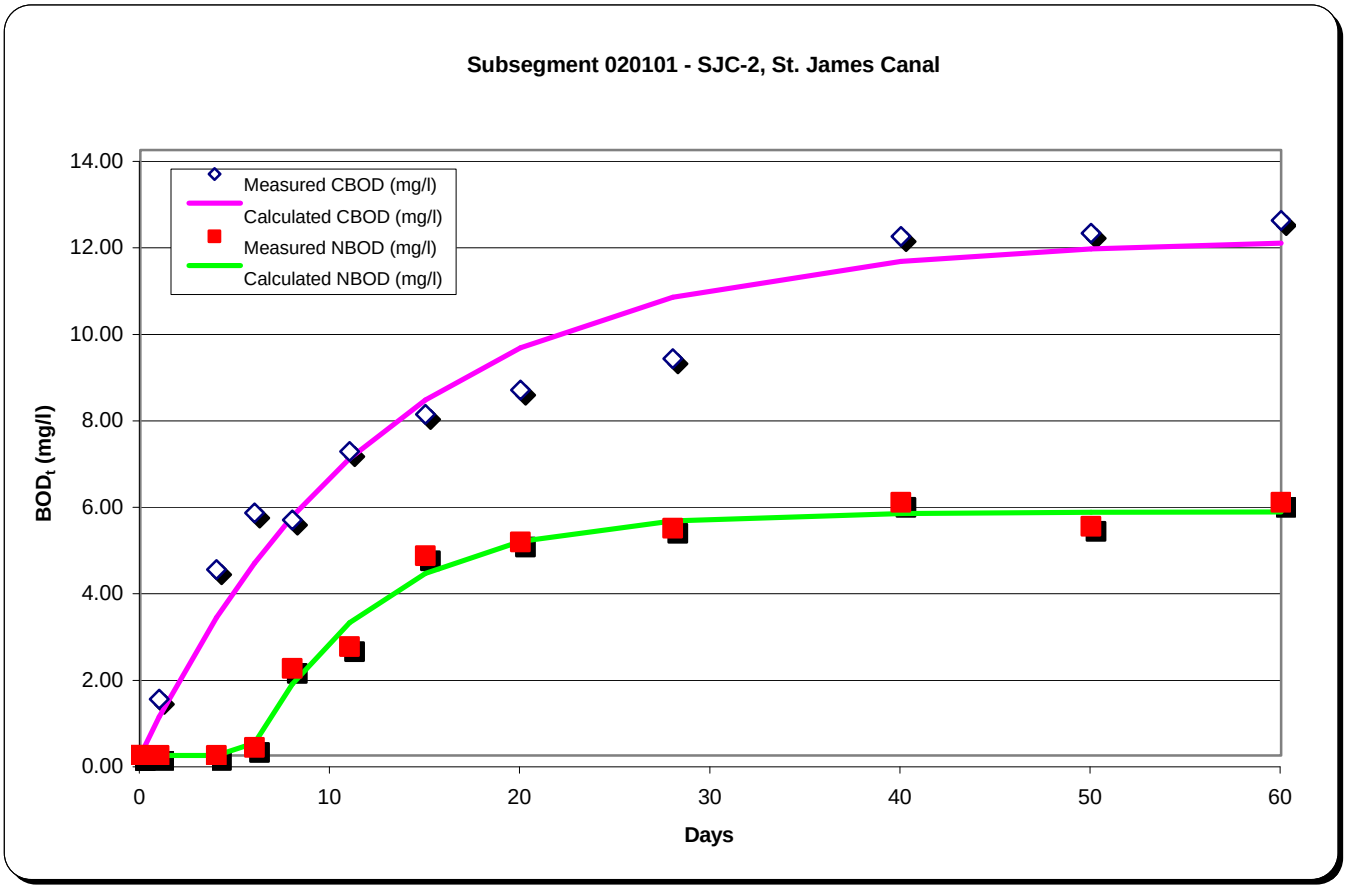
Note 6 - Calculated from the formula {NBODt=UNBOD[1-e-(k(t-lag))]} using the listed values of UNBOD, k decay rate and lag time.

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: **Subsegment 020101 - SJC-2, St. James 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		1.36					
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	1.3	1.36	0.00	1.30	0.00	0.89	
4	4.3	1.20	0.00	4.30	0.00	3.19	
6	5.9	1.40	0.18	5.61	0.29	4.45	
8	7.1	1.80	2.01	5.45	1.65	5.53	
11	10.1	1.91	2.51	7.03	3.07	6.86	
15	12.1	2.37	4.62	7.89	4.21	8.22	
20	13.4	2.44	4.94	8.45	4.95	9.42	
28	14.6	2.51	5.26	9.18	5.42	10.60	
40	17.6	2.64	5.85	12.00	5.60	11.42	
50	17.7	2.52	5.30	12.08	5.62	11.71	
60	18.0	2.64	5.85	12.37	5.63	11.84	
					5.63	11.96	**UBOD (mg/l)**
					0.15	0.08	**k rate (1/day)**
					5.64	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 C5

Cross Section Data

STREAM CROSS-SECTION SPREADSHEET

Site Number: BCH-2 **Subsegment:** 020101 **Waterbody:** Bayou Chevreuil

Site Description: Hwy. 20 Bridge

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

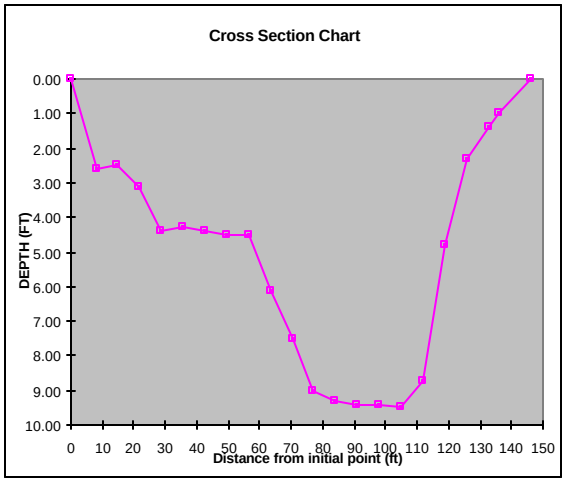
Tapedown: 2.9 ft

Guage Height:

Date: 6/3/03

WIDTH[1] (ft):	146.00
AREA[2] (ft^2):	750.99
AVG. DEPTH[3](ft):	5.14

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6&7]
1	0.0	4.00	0.00	0.00	
2	8.0	7.46	2.60	19.40	2.58%
3	14.9	6.92	2.50	17.30	2.30%
4	21.8	6.92	3.10	21.45	2.86%
5	28.8	6.92	4.40	30.45	4.05%
6	35.7	6.92	4.30	29.76	3.96%
7	42.6	6.92	4.40	30.45	4.05%
8	49.5	6.92	4.50	31.14	4.15%
9	56.4	6.92	4.50	31.14	4.15%
10	63.4	6.92	6.10	42.21	5.62%
11	70.3	6.92	7.50	51.90	6.91%
12	77.2	6.92	9.00	62.28	8.29%
13	84.1	6.92	9.30	64.36	8.57%
14	91.0	6.92	9.40	65.05	8.66%
15	98.0	6.92	9.40	65.05	8.66%
16	104.9	6.92	9.50	65.74	8.75%
17	111.8	6.92	8.70	60.20	8.02%
18	118.7	6.92	4.80	33.22	4.42%
19	125.6	6.92	2.30	15.92	2.12%
20	132.6	5.19	1.40	7.27	0.97%
21	136.0	6.72	1.00	6.72	0.89%
22	146.0	4.99	0.00	0.00	0.00%
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	146.00		750.99	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Garner	Data Inputed by / Date:	Garner 6-20-03
Notetaker/Recorder:	Boffy	Data Input Checked by / Date:	Boffy 6-20-03
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BCh-4 **Subsegment:** 020101 **Waterbody:** Bayou Chevreuil

Site Description: halfway between BCh-2 & Lac Des Allemands

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown: NA

Guage Height: NA

Date: 6/3/03

WIDTH[1] (ft):	161.00
AREA[2] (ft^2):	901.89
AVG. DEPTH[3] (ft):	5.60

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	7.00	0.00	0.00	
2	14.0	9.66	1.92	18.54	2.06%
3	19.3	7.08	2.16	15.29	1.70%
4	28.2	8.85	3.10	27.44	3.04%
5	37.0	8.85	4.60	40.71	4.51%
6	45.9	8.85	5.90	52.22	5.79%
7	54.7	8.85	7.30	64.61	7.16%
8	63.6	8.85	8.20	72.57	8.05%
9	72.4	8.85	8.90	78.77	8.73%
10	81.3	8.85	9.50	84.08	9.32%
11	90.1	8.85	9.80	86.73	9.62%
12	99.0	8.85	9.40	83.19	9.22%
13	107.8	8.85	8.80	77.88	8.64%
14	116.7	8.85	7.70	68.15	7.56%
15	125.5	8.85	6.40	56.64	6.28%
16	134.4	8.85	4.50	39.83	4.42%
17	143.2	7.82	2.60	20.33	2.25%
18	150.0	8.90	1.68	14.94	1.66%
19	161.0	5.50	0.00	0.00	0.00%
20					
21					
22					
23					
24					
25					
26					
27					
28					
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30					
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33					
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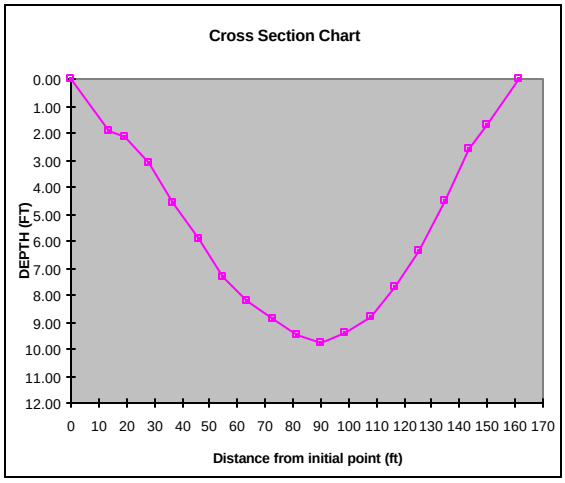
35					
36					
37					
38					
39					
40					
	Total	161.00		901.89	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Phillippe/Savant	Data Inputed by / Date:	Phillippe 06/06/03
Notetaker/Recorder:	Stone	Data Input Checked by / Date:	
Other:			

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: Bci-2 **Subsegment:** 020101 **Waterbody:** Bayou Citamon

Site Description: Bayou Citamon- 2

Type of Equipment: ● Fathomete ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/4/03

WIDTH[1] (ft):	72.00
AREA[2] (ft^2):	245.60
AVG. DEPTH[3](ft):	3.41

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6&7]
1	0.0	3.00	0.00	0.00	
2	6.0	5.82	2.30	13.39	5.45%
3	11.6	5.64	2.60	14.66	5.97%
4	17.3	5.64	3.30	18.61	7.58%
5	22.9	5.64	4.50	25.38	10.33%
6	28.6	5.64	5.10	28.76	11.71%
7	34.2	5.64	5.40	30.46	12.40%
8	39.8	5.64	5.10	28.76	11.71%
9	45.5	5.64	5.00	28.20	11.48%
10	51.1	5.64	4.00	22.56	9.19%
11	56.8	8.44	2.50	21.10	8.59%
12	68.0	7.62	1.80	13.72	5.58%
13	72.0	2.00	0.00	0.00	0.00%
14					
15					
16					
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18					
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21					
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28					
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35					
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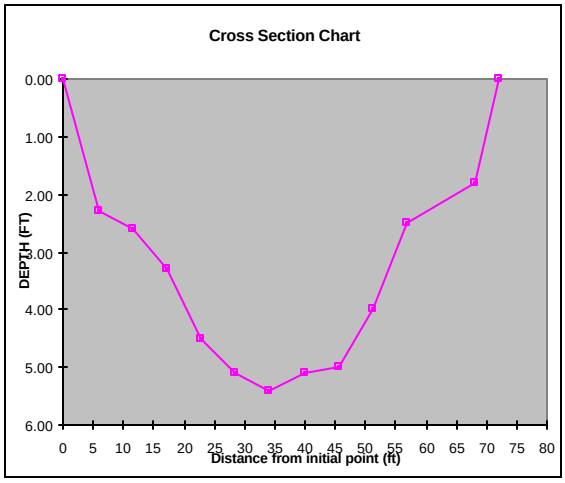
37					
38					
39					
40					
	Total	72.00		245.60	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Brignac, Butler, Griffith	Data Inputed by / Date:	6/12/03
Notetaker/Recorder:	Brignac	Data Input Checked by / Date:	
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BCi4 **Subsegment:** 020101 **Waterbody:** Bayou Citamon

Site Description: 2 mi. W of Grand Bayou

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

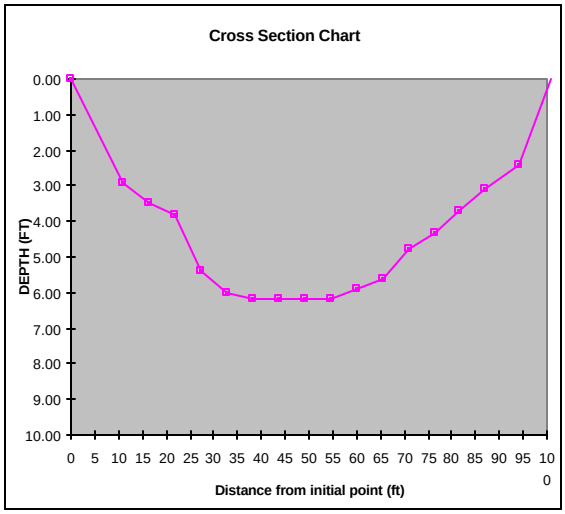
Tapedown:

Guage Height:

Date: 6/3/03

WIDTH[1] (ft):	101.00
AREA[2] (ft^2):	428.31
AVG. DEPTH[3](ft):	4.24

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	5.50	0.00	0.00	
2	11.0	8.22	2.90	23.84	5.57%
3	16.4	5.44	3.50	19.04	4.45%
4	21.9	5.44	3.80	20.67	4.83%
5	27.3	5.44	5.40	29.38	6.86%
6	32.8	5.44	6.00	32.64	7.62%
7	38.2	5.44	6.20	33.73	7.87%
8	43.6	5.44	6.20	33.73	7.87%
9	49.1	5.44	6.20	33.73	7.87%
10	54.5	5.44	6.20	33.73	7.87%
11	60.0	5.44	5.90	32.10	7.49%
12	65.4	5.44	5.60	30.46	7.11%
13	70.8	5.44	4.80	26.11	6.10%
14	76.3	5.44	4.30	23.39	5.46%
15	81.7	5.44	3.70	20.13	4.70%
16	87.2	6.14	3.10	19.03	4.44%
17	94.0	6.92	2.40	16.61	3.88%
18	101.0	3.50	0.00	0.00	0.00%
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	101.00		428.31	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Schwartz, Jones, Fontenot	Data Inputed by / Date:	Jones 6-6-03
Notetaker/Recorder:	Schwartz	Data Input Checked by / Date:	Brignac 6-6-03
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BCi7 **Subsegment:** 020101 **Waterbody:** Bayou Citamon

Site Description: 2 mi. E of Grand Bayou

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/3/03

WIDTH[1] (ft):	84.00
AREA[2] (ft^2):	323.38
AVG. DEPTH[3] (ft):	3.85

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6&7]
1	0.0	6.50	0.00	0.00	
2	13.0	9.15	0.50	4.58	1.41%
3	18.3	5.30	2.50	13.25	4.10%
4	23.6	5.30	4.20	22.26	6.88%
5	28.9	5.30	6.00	31.80	9.83%
6	34.2	5.30	6.90	36.57	11.31%
7	39.5	5.30	7.50	39.75	12.29%
8	44.8	5.30	7.50	39.75	12.29%
9	50.1	5.30	7.10	37.63	11.64%
10	55.4	5.30	6.30	33.39	10.33%
11	60.7	5.30	5.80	30.74	9.51%
12	66.0	7.65	4.40	33.66	10.41%
13	76.0	9.00	0.00	0.00	0.00%
14	84.0	4.00	0.00	0.00	0.00%
15					
16					
17					
18					
19					
20					
21					
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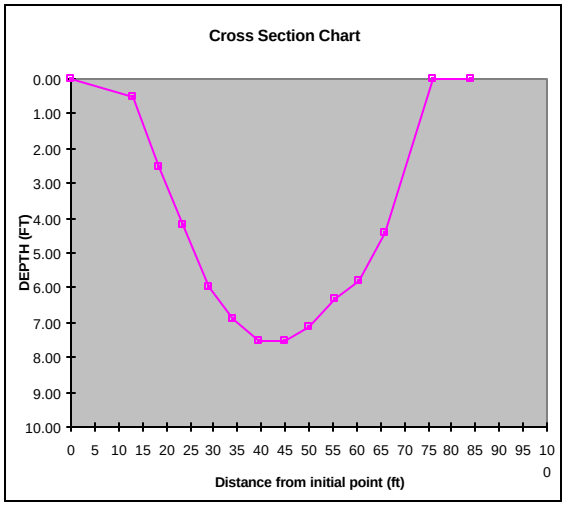
	Total	84.00		323.38	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Schwartz, Jones, Fontenot	Data Inputed by / Date:	Jones 6-6-03
Notetaker/Recorder:	Schwartz	Data Input Checked by / Date:	Brignac 6-6-03
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BkC-1 **Subsegment:** 020101 **Waterbody:** Baker Canal

Site Description: Baker Canal - 1

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/4/03

WIDTH[1] (ft):	89.00
AREA[2] (ft^2):	273.00
AVG. DEPTH[3](ft):	3.07

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	4.00	0.00	0.00	
2	8.0	6.34	1.90	12.04	4.41%
3	12.7	4.67	2.40	11.21	4.11%
4	17.3	4.67	3.50	16.35	5.99%
5	22.0	4.67	5.10	23.82	8.72%
6	26.7	4.67	6.10	28.49	10.43%
7	31.4	4.67	6.30	29.42	10.78%
8	36.0	4.67	5.50	25.69	9.41%
9	40.7	4.67	4.80	22.42	8.21%
10	45.4	4.67	5.10	23.82	8.72%
11	50.0	4.67	4.50	21.02	7.70%
12	54.7	6.99	3.50	24.45	8.96%
13	64.0	17.15	2.00	34.30	12.56%
14	89.0	12.50	0.00	0.00	0.00%
15					
16					
17					
18					
19					
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27					
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37					
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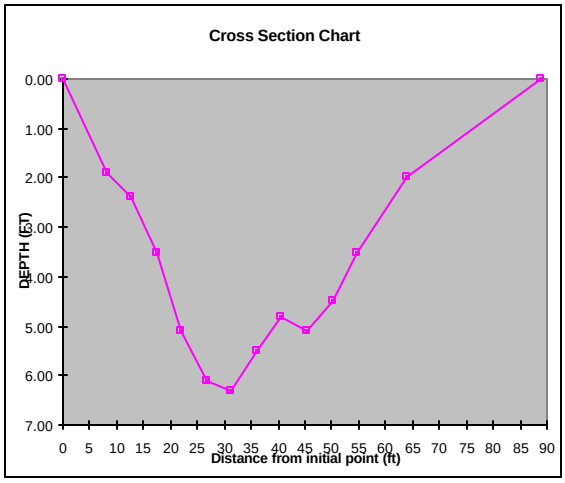
40					
	Total	89.00		273.00	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Brignac, Butler, Griffith	Data Inputed by / Date:	6/12/03
Notetaker/Recorder:	Brignac	Data Input Checked by / Date:	
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BV 1 **Subsegment:** 020101 **Waterbody:** Bayou Verret

Site Description: B. Verret 2.5 miles north of B. Citamon

Type of Equipment: ● Fathomete ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height: 3.7 ft

Date: 6/3/03

WIDTH[1] (ft):	80.00
AREA[2] (ft^2):	188.30
AVG. DEPTH[3] (ft):	2.35

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	5.00	1.10	5.50	2.92%
3	10.0	4.50	1.90	8.55	4.54%
4	14.0	4.00	2.20	8.80	4.67%
5	18.0	4.00	3.10	12.40	6.59%
6	22.0	4.50	3.00	13.50	7.17%
7	27.0	5.00	3.20	16.00	8.50%
8	32.0	6.00	3.50	21.00	11.15%
9	39.0	6.00	3.30	19.80	10.52%
10	44.0	4.00	3.40	13.60	7.22%
11	47.0	4.00	3.40	13.60	7.22%
12	52.0	5.50	3.00	16.50	8.76%
13	58.0	5.00	2.50	12.50	6.64%
14	62.0	4.50	2.50	11.25	5.97%
15	67.0	4.00	1.60	6.40	3.40%
16	70.0	3.50	1.40	4.90	2.60%
17	74.0	5.00	0.80	4.00	2.12%
18	80.0	3.00	0.00	0.00	0.00%
19					
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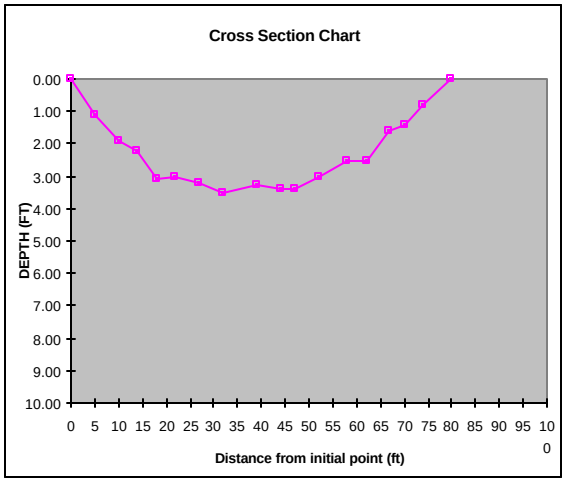
40					
	Total	80.00		188.30	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Brignac, Griffith, Butler	Data Inputed by / Date:	Brignac 6-30-03
Notetaker/Recorder:	Brignac, Griffith, Butler	Data Input Checked by / Date:	Brignac 6-30-03
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: DBC-1 **Subsegment:** 020101 **Waterbody:** Dredge Boat Canal

Site Description: .5 Miles North of Bayou Chevreuil

Type of Equipment: ● Fathomete ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

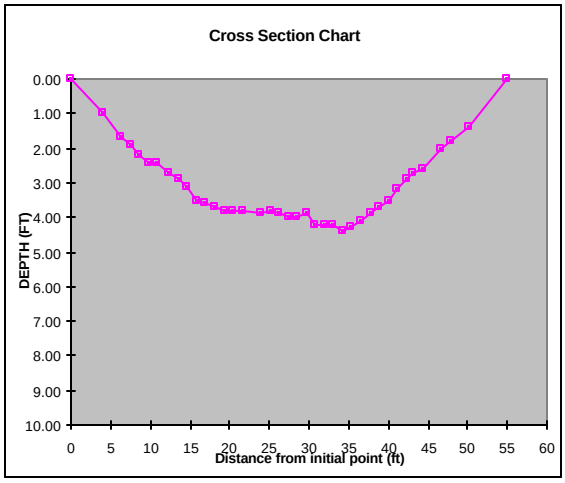
Tapedown: 2.94 ft

Guage Height:

Date: 6/3/03

WIDTH[1] (ft):	55.00
AREA[2] (ft^2):	151.62
AVG. DEPTH[3] (ft):	2.76

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6&7]
1	0.0	2.00	0.00	0.00	
2	4.0	3.15	1.00	3.15	2.08%
3	6.3	1.75	1.70	2.98	1.96%
4	7.5	1.15	1.90	2.19	1.44%
5	8.6	1.15	2.20	2.53	1.67%
6	9.8	1.15	2.40	2.76	1.82%
7	10.9	1.30	2.40	3.12	2.06%
8	12.4	1.35	2.70	3.65	2.40%
9	13.6	1.15	2.90	3.34	2.20%
10	14.7	1.15	3.10	3.57	2.35%
11	15.9	1.15	3.50	4.03	2.65%
12	17.0	1.15	3.60	4.14	2.73%
13	18.2	1.15	3.70	4.26	2.81%
14	19.3	1.15	3.80	4.37	2.88%
15	20.5	1.15	3.80	4.37	2.88%
16	21.6	1.70	3.80	6.46	4.26%
17	23.9	1.75	3.90	6.83	4.50%
18	25.1	1.15	3.80	4.37	2.88%
19	26.2	1.15	3.90	4.48	2.96%
20	27.4	1.15	4.00	4.60	3.03%
21	28.5	1.15	4.00	4.60	3.03%
22	29.7	1.15	3.90	4.49	2.96%
23	30.8	1.15	4.20	4.83	3.19%
24	32.0	1.15	4.20	4.83	3.19%
25	33.1	1.15	4.20	4.83	3.19%
26	34.3	1.15	4.40	5.06	3.34%
27	35.4	1.15	4.30	4.95	3.26%
28	36.6	1.15	4.10	4.72	3.11%
29	37.7	1.15	3.90	4.48	2.96%
30	38.9	1.15	3.70	4.25	2.81%
31	40.0	1.15	3.50	4.03	2.65%
32	41.2	1.15	3.20	3.68	2.43%
33	42.3	1.00	2.90	2.90	1.91%
34	43.2	1.00	2.70	2.70	1.78%
35	44.3	1.70	2.60	4.42	2.92%
36	46.6	1.75	2.00	3.50	2.31%
37	47.8	1.75	1.80	3.15	2.08%
38	50.1	3.60	1.40	5.04	3.32%
39	55.0	2.45	0.00	0.00	0.00%
40					
	Total	55.00		151.62	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:		Data Inputed by / Date:	
Notetaker/Recorder:		Data Input Checked by / Date:	
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: GB1 **Subsegment:** 020101 **Waterbody:** Grand Bayou

Site Description: 1 mi. S of Bayou Citamon

Type of Equipment: ☑ Fathometer ☐ Hydrotrac ☐ Manual

Initial Bank: ☐ RDB ☑ LDB

Tapedown:

Guage Height:

Date: 6/3/03

WIDTH[1] (ft):	69.00
AREA[2] (ft^2):	155.83
AVG. DEPTH[3](ft):	2.26

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	7.25	0.00	0.00	0.00%
3	14.5	4.50	2.90	13.05	8.37%
4	19.0	4.50	4.10	18.45	11.84%
5	23.5	4.50	4.80	21.60	13.86%
6	28.0	4.50	4.60	20.70	13.28%
7	32.5	4.50	4.70	21.15	13.57%
8	37.0	4.50	4.20	18.90	12.13%
9	41.5	4.50	3.70	16.65	10.69%
10	46.0	4.50	3.30	14.85	9.53%
11	50.5	6.50	0.90	5.85	3.75%
12	59.0	9.25	0.50	4.63	2.97%
13	69.0	5.00	0.00	0.00	0.00%
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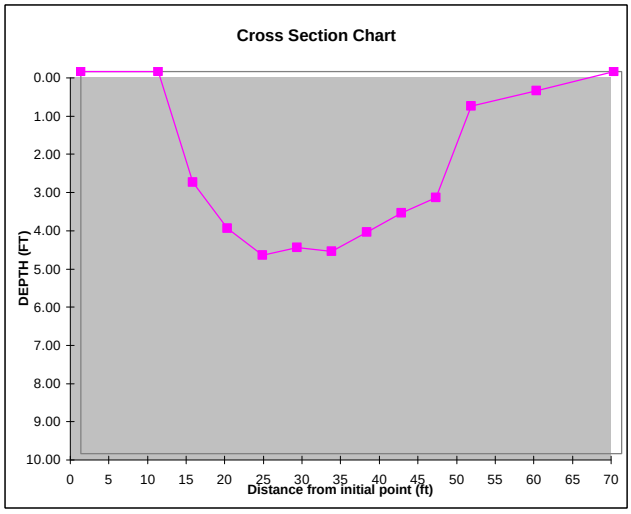
40					
	Total	69.00		155.83	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Schwartz, Jones, Fontenot	Data Inputed by / Dat	Jones 6-6-03
Notetaker/Recorder:	Schwartz	Data Input Checked by / Date:	Brignac 6-6-03
Other:			

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: SJC1 **Subsegment:** 020101 **Waterbody:** St. James Canal

Site Description: .5 mi. N of confluence with Bayou Citamon

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/3/03

WIDTH[1] (ft):	65.00
AREA[2] (ft^2):	148.14
AVG. DEPTH[3] (ft):	2.28

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6&7]
1	0.0	3.00	0.00	0.00	
2	6.0	5.20	0.00	0.00	0.00%
3	10.4	4.40	0.00	0.00	0.00%
4	14.8	4.40	2.50	11.00	7.43%
5	19.2	4.40	3.20	14.08	9.50%
6	23.6	4.40	4.20	18.48	12.47%
7	28.0	4.40	4.40	19.36	13.07%
8	32.4	4.40	4.40	19.36	13.07%
9	36.8	4.40	4.30	18.92	12.77%
10	41.2	4.40	4.20	18.48	12.47%
11	45.6	4.40	3.70	16.28	10.99%
12	50.0	4.20	2.90	12.18	8.22%
13	54.0	7.50	0.00	0.00	0.00%
14	65.0	5.50	0.00	0.00	0.00%
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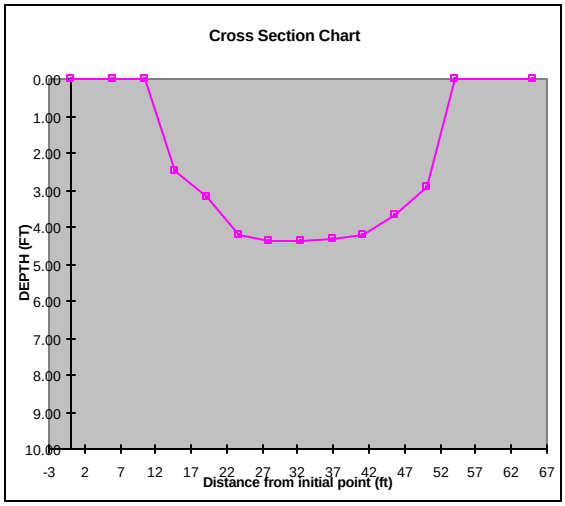
	Total	65.00		148.14	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Schwartz, Jones, Fontenot	Data Inputed by / Date:	Jones 6-6-03
Notetaker/Recorder:	Schwatrz	Data Input Checked by / Date:	Brignac 6-6-03
Other:			

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: SJC-2 **Subsegment:** 020101 **Waterbody:** Saint James Canal

Site Description: .5 Miles North of Bayou Chevreuil

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown: 3.79 ft

Guage Height:

Date: 6/3/03

WIDTH[1] (ft):	108.00
AREA[2] (ft^2):	476.38
AVG. DEPTH[3](ft):	4.41

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	5.50	0.00	0.00	
2	11.0	8.34	1.20	10.00	2.10%
3	16.7	5.67	2.60	14.74	3.09%
4	22.3	5.67	4.20	23.81	5.00%
5	28.0	5.67	5.30	30.05	6.31%
6	33.7	5.67	6.00	34.02	7.14%
7	39.4	5.67	6.60	37.42	7.86%
8	45.0	5.67	7.40	41.96	8.81%
9	50.7	5.67	7.70	43.66	9.16%
10	56.4	5.67	8.00	45.36	9.52%
11	62.0	5.67	7.20	40.82	8.57%
12	67.7	5.67	6.80	38.56	8.09%
13	73.4	5.67	6.20	35.15	7.38%
14	79.0	5.67	5.40	30.62	6.43%
15	84.7	5.67	4.60	26.08	5.48%
16	90.4	5.67	2.70	15.31	3.21%
17	96.1	8.81	1.00	8.81	1.85%
18	108.0	5.98	0.00	0.00	0.00%
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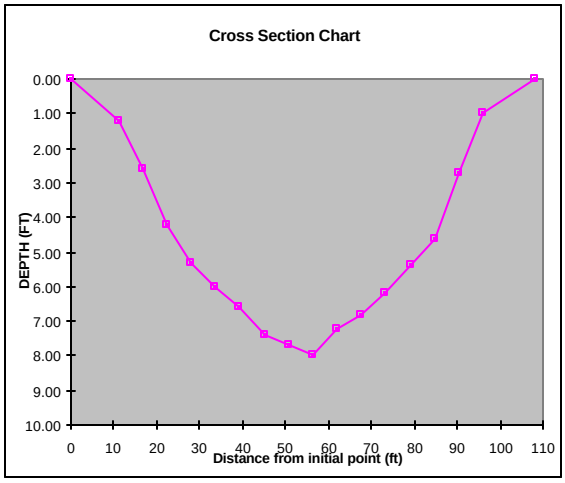
	Total	108.00		476.38	100.00%



Data Collection Crew		Office Data Work		
Measurement made by:	Garner	Data Inputed by / Date:	Garner	6/20/03
Notetaker/Recorder:	Boffy	Data Input Checked by / Date:	Boffy	6/20/03
Other:				

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: ChDyeDump **Subsegment:** 020101 **Waterbody:** Bayou Chevreuil

Site Description: Bayou Chevreuil Dye Dump

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/4/03

WIDTH[1] (ft):	146.00
AREA[2] (ft^2):	731.64
AVG. DEPTH[3] (ft):	5.01

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6&7]
1	0.0	4.50	0.00	0.00	
2	9.0	9.54	1.60	15.26	2.09%
3	19.1	10.08	2.50	25.20	3.44%
4	29.2	10.08	3.80	38.30	5.24%
5	39.2	10.08	5.00	50.40	6.89%
6	49.3	10.08	5.90	59.47	8.13%
7	59.4	10.08	8.00	80.64	11.02%
8	69.5	10.08	9.60	96.77	13.23%
9	79.6	10.08	10.20	102.82	14.05%
10	89.6	10.08	10.10	101.81	13.92%
11	99.7	10.08	8.00	80.64	11.02%
12	109.8	10.08	2.90	29.23	4.00%
13	119.9	15.10	2.00	30.20	4.13%
14	140.0	13.06	1.60	20.90	2.86%
15	146.0	3.00	0.00	0.00	0.00%
16					
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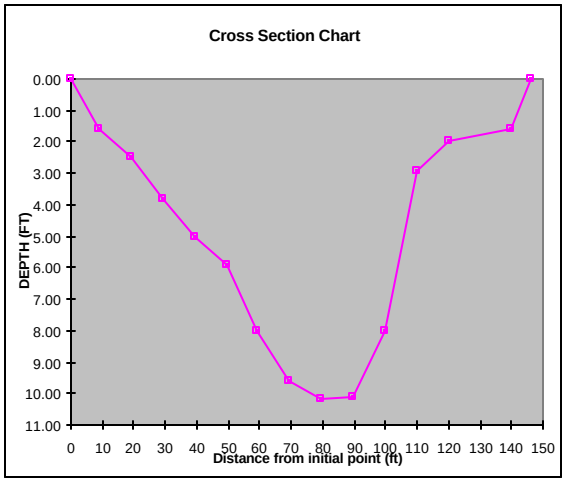
	Total	146.00		731.64	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Brignac, Butler, Griffith	Data Inputed by / Date:	6/12/03
Notetaker/Recorder:	Brignac	Data Input Checked by / Date:	
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BCH DYE RUN 2 **Subsegment:** 020101 **Waterbody:** Bayou Chevreuil

Site Description: Bottom X-Section (GPS 3308911, 724813)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/5/03

WIDTH[1] (ft):	181.30
AREA[2] (ft^2):	1029.19
AVG. DEPTH[3](ft):	5.68

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	5.45	0.00	0.00	
2	10.9	10.95	1.40	15.33	1.49%
3	21.9	11.00	2.00	22.00	2.14%
4	32.9	11.00	2.30	25.30	2.46%
5	43.9	11.00	3.60	39.60	3.85%
6	54.9	11.00	5.00	55.00	5.34%
7	65.9	11.00	7.00	77.00	7.48%
8	76.9	11.00	9.30	102.30	9.94%
9	87.9	11.00	10.90	119.90	11.65%
10	98.9	11.00	10.70	117.70	11.44%
11	109.9	11.00	10.40	114.40	11.12%
12	120.9	11.00	9.90	108.90	10.58%
13	131.9	11.00	9.00	99.00	9.62%
14	142.9	11.00	5.70	62.70	6.09%
15	153.9	11.00	3.50	38.50	3.74%
16	164.9	11.00	1.90	20.90	2.03%
17	175.9	8.20	1.30	10.66	1.04%
18	181.3	2.70	0.00	0.00	0.00%
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
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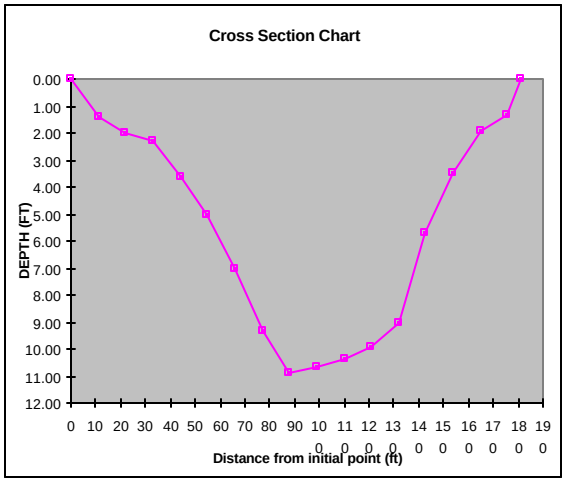
36					
37					
38					
39					
40					
	Total	181.30		1029.19	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	Dickinson/ 7/2/03
Notetaker/Recorder:	Dickinson	Data Input Checked by / Date:	Lafleur 7/2/03
Other:	LaFleur		

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BCH DYE RUN 2 **Subsegment:** 020101 **Waterbody:** Bayou Chevreuil

Site Description: Top X-Section (GPS 3309876, 723203)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/5/03

WIDTH[1] (ft):	159.50
AREA[2] (ft^2):	949.85
AVG. DEPTH[3](ft):	5.96

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	5.50	0.00	0.00	
2	11.0	11.00	1.40	15.40	1.62%
3	22.0	11.00	2.70	29.70	3.13%
4	33.0	11.00	5.00	55.00	5.79%
5	44.0	11.00	6.50	71.50	7.53%
6	55.0	11.00	8.30	91.30	9.61%
7	66.0	11.00	9.50	104.50	11.00%
8	77.0	11.00	10.30	113.30	11.93%
9	88.0	11.00	10.80	118.80	12.51%
10	99.0	11.00	10.20	112.20	11.81%
11	110.0	11.00	8.10	89.10	9.38%
12	121.0	11.00	5.90	64.90	6.83%
13	132.0	11.00	4.30	47.30	4.98%
14	143.0	11.00	2.30	25.30	2.66%
15	154.0	8.25	1.40	11.55	1.22%
16	159.5	2.75	0.00	0.00	0.00%
17					
18					
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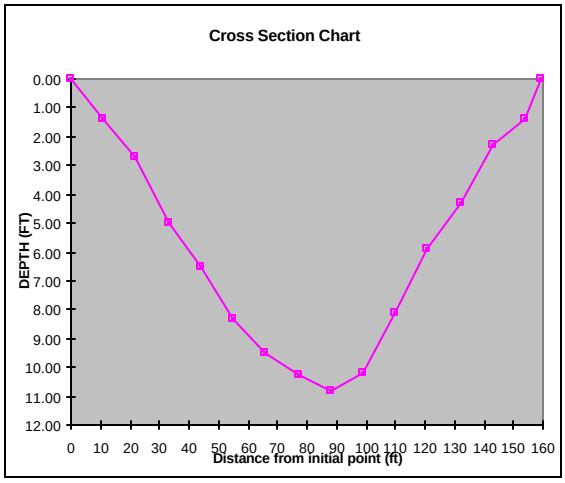
40					
	Total	159.50		949.85	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	Dickinson/ 7-2-03
Notetaker/Recorder:	Dickinson	Data Input Checked by / Date:	Lafleur/ 7-2-03
Other:	LaFleur		

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BCH Dye Run 3 **Subsegment:** 020101 **Waterbody:** Bayou Chevreuil

Site Description: Bottom X-section (GPS 3309453, 723868)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/5/03

WIDTH[1] (ft):	155.00
AREA[2] (ft^2):	995.68
AVG. DEPTH[3](ft):	6.42

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6&7]
1	0.0	4.55	0.00	0.00	
2	9.1	9.10	1.60	14.56	1.46%
3	18.2	9.10	1.60	14.56	1.46%
4	27.3	9.10	2.90	26.39	2.65%
5	36.4	9.05	6.40	57.92	5.82%
6	45.4	9.05	8.20	74.21	7.45%
7	54.5	9.10	8.60	78.26	7.86%
8	63.6	9.10	9.90	90.09	9.05%
9	72.7	9.10	10.90	99.19	9.96%
10	81.8	9.05	11.50	104.08	10.45%
11	90.8	9.05	11.20	101.36	10.18%
12	99.9	9.10	11.00	100.10	10.05%
13	109.0	9.10	10.60	96.46	9.69%
14	118.1	9.10	6.90	62.79	6.31%
15	127.2	9.05	3.80	34.39	3.45%
16	136.2	9.05	2.80	25.34	2.55%
17	145.3	9.40	1.70	15.98	1.60%
18	155.0	4.85	0.00	0.00	0.00%
19					
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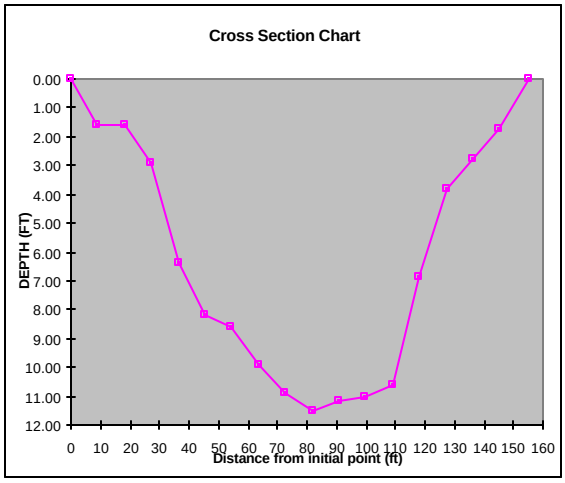
40					
	Total	155.00		995.68	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow, Dickinson	Data Inputed by / Date:	LaFleur 7/2/03
Notetaker/Recorder:		Data Input Checked by / Date:	Dickinson 7/2/03
Other:	LaFleur		

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BCH Dye Run 3 **Subsegment:** 020101 **Waterbody:** Bayou Chevreuil

Site Description: Top X-section (GPS 3308839, 726058)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/5/03

WIDTH[1] (ft):	146.60
AREA[2] (ft^2):	852.65
AVG. DEPTH[3](ft):	5.82

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6&7]
1	0.0	4.25	0.00	0.00	
2	8.5	8.50	0.50	4.25	0.50%
3	17.0	8.50	2.10	17.85	2.09%
4	25.5	8.50	4.60	39.10	4.59%
5	34.0	8.50	7.60	64.60	7.58%
6	42.5	8.50	8.60	73.10	8.57%
7	51.0	8.50	10.20	86.70	10.17%
8	59.5	8.50	11.30	96.05	11.26%
9	68.0	8.50	11.30	96.05	11.26%
10	76.5	8.50	10.80	91.80	10.77%
11	85.0	8.50	9.70	82.45	9.67%
12	93.5	8.50	7.40	62.90	7.38%
13	102.0	8.50	5.20	44.20	5.18%
14	110.5	8.50	3.80	32.30	3.79%
15	119.0	8.50	2.90	24.65	2.89%
16	127.5	8.50	2.20	18.70	2.19%
17	136.0	8.50	1.80	15.30	1.79%
18	144.5	5.30	0.50	2.65	0.31%
19	146.6	1.05	0.00	0.00	0.00%
20					
21					
22					
23					
24					
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27					
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29					
30					
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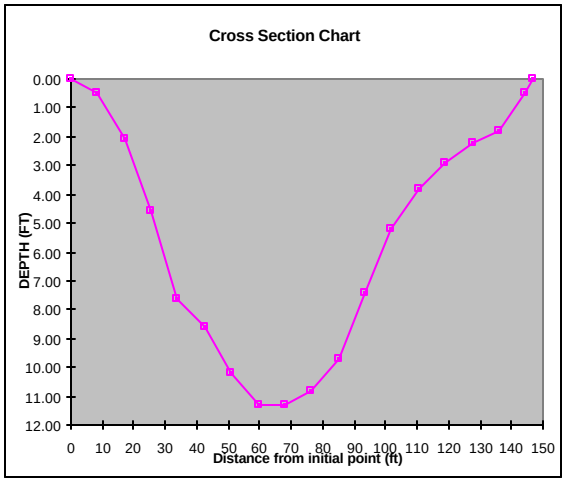
35					
36					
37					
38					
39					
40					
	Total	146.60		852.65	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow, Dickinson	Data Inputed by / Date:	LaFleur 7/2/03
Notetaker/Recorder:		Data Input Checked by / Date:	Farlow 7/2/03
Other:	LaFleur		

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BChDye1X1 **Subsegment:** 020101 **Waterbody:** Bayou Chevreuil

Site Description: Bayou Chevreuil Dye Run #1 X1 (GPS 3310298, 722133)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/4/03

WIDTH[1] (ft):	151.00
AREA[2] (ft^2):	777.50
AVG. DEPTH[3] (ft):	5.15

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	7.00	0.00	0.00	
2	14.0	10.32	1.80	18.57	2.39%
3	20.6	6.63	2.60	17.24	2.22%
4	27.3	6.63	4.10	27.18	3.50%
5	33.9	6.63	5.10	33.81	4.35%
6	40.5	6.63	5.60	37.13	4.78%
7	47.2	6.63	6.60	43.76	5.63%
8	53.8	6.63	7.80	51.71	6.65%
9	60.4	6.63	8.90	59.01	7.59%
10	67.0	6.63	9.30	61.66	7.93%
11	73.7	6.63	9.80	64.97	8.36%
12	80.3	6.63	9.30	61.66	7.93%
13	86.9	6.63	8.90	59.01	7.59%
14	93.6	6.63	8.80	58.34	7.50%
15	100.2	6.63	6.90	45.75	5.88%
16	106.8	6.63	5.30	35.14	4.52%
17	113.5	6.63	4.10	27.18	3.50%
18	120.1	6.63	3.50	23.21	2.98%
19	126.7	9.96	2.80	27.89	3.59%
20	140.0	12.15	2.00	24.29	3.12%
21	151.0	5.50	0.00	0.00	0.00%
22					
23					
24					
25					
26					
27					
28					
29					
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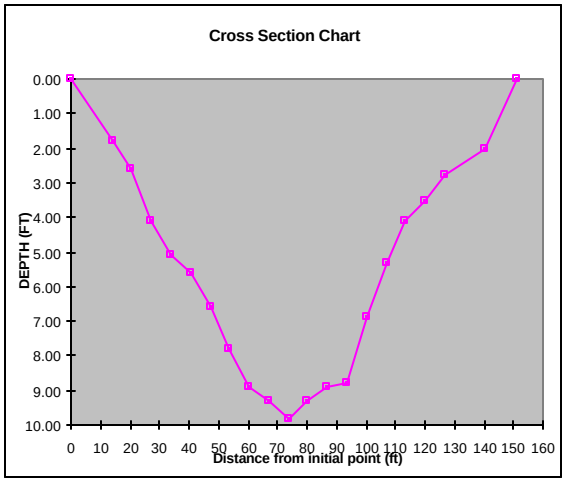
37					
38					
39					
40					
	Total	151.00		777.50	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Brignac, Butler, Griffith	Data Inputed by / Date:	6/12/03
Notetaker/Recorder:	Brignac	Data Input Checked by / Date:	
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BChDye1X2 **Subsegment:** 020101 **Waterbody:** Bayou Chevrueil

Site Description: Bayou Chevreuil Dye Run #1 X2 (GPS 3310078, 722734)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/4/03

WIDTH[1] (ft):	153.00
AREA[2] (ft^2):	917.33
AVG. DEPTH[3] (ft):	6.00

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	6.68	1.50	10.01	1.09%
3	13.4	8.35	2.50	20.88	2.28%
4	21.7	8.35	3.60	30.06	3.28%
5	30.1	8.35	4.40	36.74	4.01%
6	38.4	8.35	5.00	41.75	4.55%
7	46.8	8.35	6.00	50.10	5.46%
8	55.1	8.35	7.20	60.12	6.55%
9	63.5	8.35	8.30	69.31	7.56%
10	71.8	8.35	9.60	80.16	8.74%
11	80.2	8.35	9.70	81.00	8.83%
12	88.5	8.35	9.50	79.32	8.65%
13	96.9	8.35	9.10	75.99	8.28%
14	105.2	8.35	8.70	72.65	7.92%
15	113.6	8.35	8.00	66.80	7.28%
16	121.9	8.35	7.00	58.45	6.37%
17	130.3	12.55	4.70	58.99	6.43%
18	147.0	11.38	2.20	25.03	2.73%
19	153.0	3.00	0.00	0.00	0.00%
20					
21					
22					
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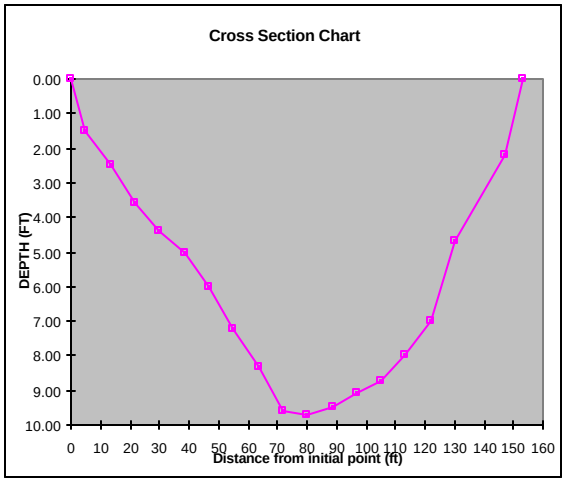
40					
	Total	153.00		917.33	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Brignac, Butler, Griffith	Data Inputed by / Date:	6/12/03
Notetaker/Recorder:	Brignac	Data Input Checked by / Date:	
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BChDye#1X3 **Subsegment:** 020101 **Waterbody:** Bayou Chevreuil

Site Description: Bayou Chevreuil Dye Run #1 X3 (GPS 3309813, 723523)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/4/03

WIDTH[1] (ft):	167.00
AREA[2] (ft^2):	824.03
AVG. DEPTH[3](ft):	4.93

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6&7]
1	0.0	4.50	0.00	0.00	
2	9.0	8.75	1.80	15.75	1.91%
3	17.5	8.50	2.70	22.95	2.79%
4	26.0	8.50	4.10	34.85	4.23%
5	34.5	8.50	5.30	45.05	5.47%
6	43.0	8.50	7.00	59.50	7.22%
7	51.5	8.50	8.50	72.25	8.77%
8	60.0	8.50	9.60	81.60	9.90%
9	68.5	8.50	10.50	89.25	10.83%
10	77.0	8.50	11.10	94.35	11.45%
11	85.5	8.50	9.40	79.90	9.70%
12	94.0	8.50	6.70	56.95	6.91%
13	102.5	8.50	5.00	42.50	5.16%
14	111.0	8.50	4.00	34.00	4.13%
15	119.5	8.50	2.70	22.95	2.79%
16	128.0	8.50	2.50	21.25	2.58%
17	136.5	8.50	1.80	15.30	1.86%
18	145.0	12.75	1.50	19.13	2.32%
19	162.0	11.00	1.50	16.50	2.00%
20	167.0	2.50	0.00	0.00	0.00%
21					
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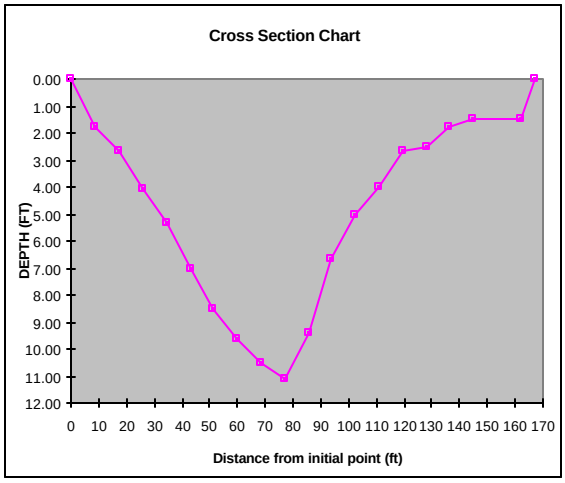
	Total	167.00		824.03	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Brignac, Butler, Griffith	Data Inputed by / Date:	6/12/03
Notetaker/Recorder:	Brignac	Data Input Checked by / Date:	
Other:			

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: 3ci DyeDump **Subsegment:** 020101 **Waterbody:** Bayou Citamon

Site Description: Bayou Citamon Dye Dump

Type of Equipment: ● Fathomete ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/4/03

WIDTH[1] (ft):	90.00
AREA[2] (ft^2):	307.96
AVG. DEPTH[3] (ft):	3.42

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	7.96	2.50	19.90	6.46%
3	15.9	5.92	2.60	15.39	5.00%
4	21.8	5.92	2.70	15.98	5.19%
5	27.8	5.92	3.30	19.54	6.34%
6	33.7	5.92	2.40	14.21	4.61%
7	39.6	5.92	4.20	24.86	8.07%
8	45.5	5.92	4.90	29.01	9.42%
9	51.4	5.92	5.20	30.78	10.00%
10	57.4	5.92	5.00	29.60	9.61%
11	63.3	5.92	4.70	27.82	9.03%
12	69.2	5.92	4.10	24.27	7.88%
13	75.1	8.90	3.60	32.04	10.40%
14	87.0	7.44	3.30	24.55	7.97%
15	90.0	1.50	0.00	0.00	0.00%
16					
17					
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19					
20					
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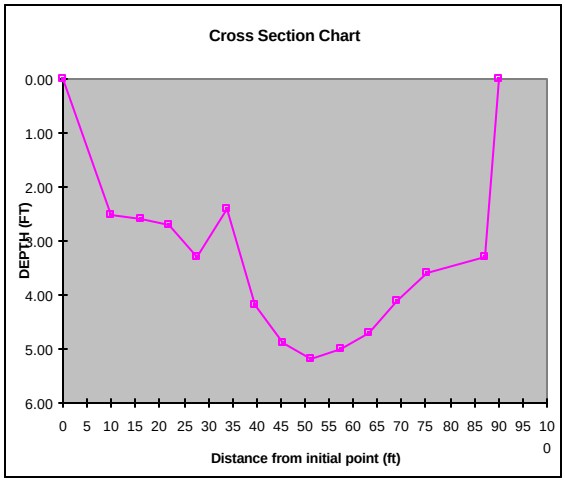
40					
	Total	90.00		307.96	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Brignac, Butler, Griffith	Data Inputed by / Date:	6/12/03
Notetaker/Recorder:	Brignac	Data Input Checked by / Date:	
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BCI Dye Run 2 **Subsegment:** 020101 **Waterbody:** Bayou Citamon

Site Description: Bottom X-Section GPS(3312440, 710153)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/5/03

WIDTH[1] (ft):	105.40
AREA[2] (ft^2):	388.93
AVG. DEPTH[3](ft):	3.69

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	5.27	0.00	0.00	
2	10.5	10.54	1.80	18.97	4.88%
3	21.1	10.54	2.30	24.24	6.23%
4	31.6	10.54	3.50	36.89	9.49%
5	42.2	10.54	4.50	47.43	12.20%
6	52.7	10.54	5.60	59.02	15.18%
7	63.2	10.54	5.80	61.13	15.72%
8	73.8	10.54	5.60	59.02	15.18%
9	84.3	10.54	4.80	50.59	13.01%
10	94.9	10.54	3.00	31.62	8.13%
11	105.4	5.27	0.00	0.00	0.00%
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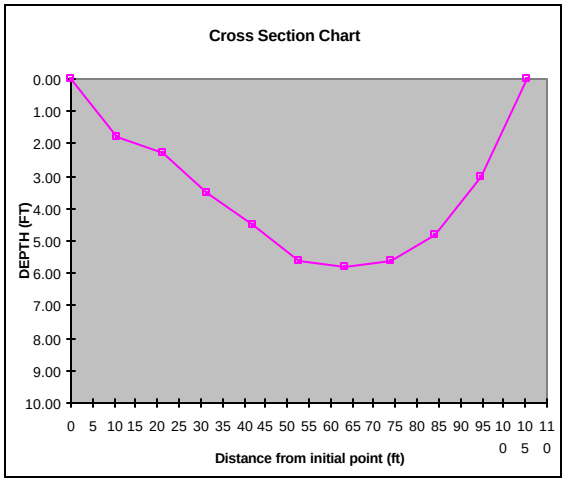
	Total	105.40		388.93	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow, Dickinson	Data Inputed by / Date:	Farlow 7/2/03
Notetaker/Recorder:		Data Input Checked by / Date:	Lafleur 7/2/03
Other:	Lafleur		

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BCI Dye Run 2 **Subsegment:** **Waterbody:** Bayou Citamon

Site Description: Bottom Mid X-Section GPS(3312528, 709858)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/5/03

WIDTH[1] (ft):	123.20
AREA[2] (ft^2):	416.64
AVG. DEPTH[3] (ft):	3.38

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	5.60	0.00	0.00	
2	11.2	11.20	2.00	22.40	5.38%
3	22.4	11.20	3.60	40.32	9.68%
4	33.6	11.20	4.00	44.80	10.75%
5	44.8	11.20	4.20	47.04	11.29%
6	56.0	11.20	4.80	53.76	12.90%
7	67.2	11.20	4.70	52.64	12.63%
8	78.4	11.20	4.90	54.88	13.17%
9	89.6	11.20	4.10	45.92	11.02%
10	100.8	11.20	2.90	32.48	7.80%
11	112.0	11.20	2.00	22.40	5.38%
12	123.2	5.60	0.00	0.00	0.00%
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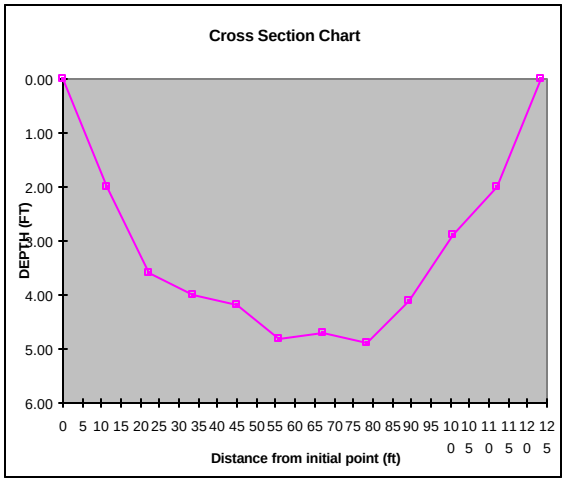
	Total	123.20		416.64	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow, Dickinson	Data Inputed by / Date:	Farlow 7/2/03
Notetaker/Recorder:		Data Input Checked by / Date:	LaFleur 7/2/03
Other:	LaFleur		

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BCI Dye Run 2 **Subsegment:** 020101 **Waterbody:** Bayou Citamon

Site Description: Top X-section (GPS 3312123, 708367)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/5/03

WIDTH[1] (ft):	102.46
AREA[2] (ft^2):	343.25
AVG. DEPTH[3](ft):	3.35

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6&7]
1	0.0	4.46	0.00	0.00	
2	8.9	8.91	2.00	17.82	5.19%
3	17.8	8.91	2.90	25.84	7.53%
4	26.7	8.91	4.00	35.64	10.38%
5	35.6	8.91	5.00	44.55	12.98%
6	44.6	8.91	5.20	46.33	13.50%
7	53.5	8.91	5.30	47.22	13.76%
8	62.4	8.91	4.80	42.77	12.46%
9	71.3	8.91	3.70	32.97	9.60%
10	80.2	8.91	2.50	22.28	6.49%
11	89.1	8.91	2.00	17.82	5.19%
12	98.0	6.68	1.50	10.02	2.92%
13	102.5	2.22	0.00	0.00	0.00%
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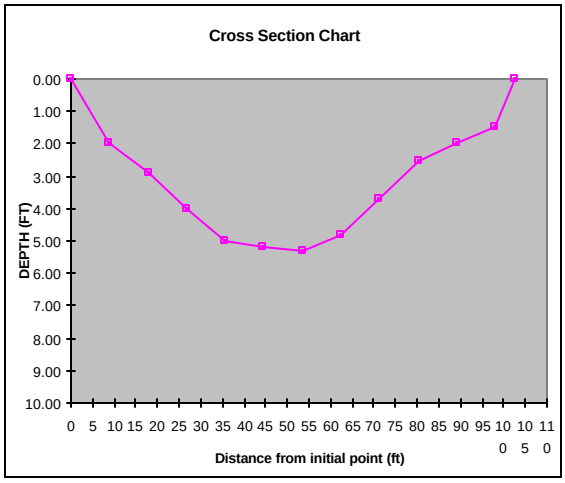
	Total	102.46		343.25	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	LaFleur 7/2/03
Notetaker/Recorder:	Dickinson	Data Input Checked by / Date:	Dickinson 7/2/03
Other:	LaFleur		

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BCI Dye Run 2 **Subsegment:** 020101 **Waterbody:** Bayou Citamon

Site Description: Top X-section (GPS 3312123, 708367)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/5/03

WIDTH[1] (ft):	102.46
AREA[2] (ft^2):	343.25
AVG. DEPTH[3](ft):	3.35

Subsection	Distance from initial point (ft)	Width[4] (ft)	Depth (ft)	Area[5] (sq.ft.)	Area of element as % of Total Area[6&7]
1	0.0	4.46	0.00	0.00	
2	8.9	8.91	2.00	17.82	5.19%
3	17.8	8.91	2.90	25.84	7.53%
4	26.7	8.91	4.00	35.64	10.38%
5	35.6	8.91	5.00	44.55	12.98%
6	44.6	8.91	5.20	46.33	13.50%
7	53.5	8.91	5.30	47.22	13.76%
8	62.4	8.91	4.80	42.77	12.46%
9	71.3	8.91	3.70	32.97	9.60%
10	80.2	8.91	2.50	22.28	6.49%
11	89.1	8.91	2.00	17.82	5.19%
12	98.0	6.68	1.50	10.02	2.92%
13	102.5	2.22	0.00	0.00	0.00%
14					
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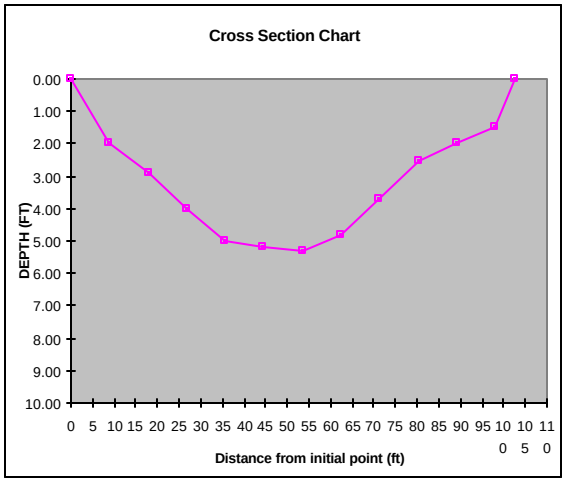
	Total	102.46		343.25	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	LaFleur 7/2/03
Notetaker/Recorder:	Dickinson	Data Input Checked by / Date:	Dickinson 7/2/03
Other:	LaFleur		

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BCI Dye Run 2 **Subsegment:** 020101 **Waterbody:** Bayou Citamon

Site Description: Top-Mid X-section (GPS 3312207, 708723)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/5/03

WIDTH[1] (ft):	110.50
AREA[2] (ft^2):	342.55
AVG. DEPTH[3](ft):	3.10

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	4.25	0.00	0.00	
2	8.5	8.50	1.60	13.60	3.97%
3	17.0	8.50	2.00	17.00	4.96%
4	25.5	8.50	2.70	22.95	6.70%
5	34.0	8.50	3.80	32.30	9.43%
6	42.5	8.50	4.50	38.25	11.17%
7	51.0	8.50	5.00	42.50	12.41%
8	59.5	8.50	5.50	46.75	13.65%
9	68.0	8.50	5.10	43.35	12.66%
10	76.5	8.50	4.00	34.00	9.93%
11	85.0	8.50	2.40	20.40	5.96%
12	93.5	8.50	2.00	17.00	4.96%
13	102.0	8.50	1.70	14.45	4.22%
14	110.5	4.25	0.00	0.00	0.00%
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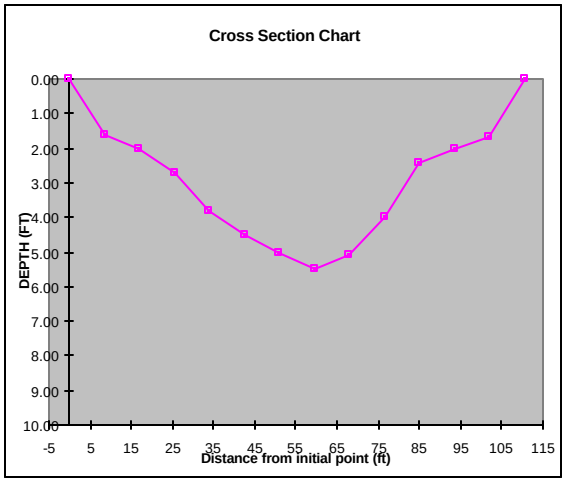
	Total	110.50		342.55	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	LaFleur 7/2/03
Notetaker/Recorder:	Dickinson	Data Input Checked by / Date:	Dickinson 7/2/03
Other:	LaFleur		

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: BCi Dye1X2 **Subsegment:** 020101 **Waterbody:** Bayou Citamon

Site Description: BCi dye run1 x2 (GPS 3311656, 707187)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/4/03

WIDTH[1] (ft):	89.00
AREA[2] (ft^2):	286.08
AVG. DEPTH[3] (ft):	3.21

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	5.00	0.00	0.00	
2	10.0	7.60	2.00	15.20	5.31%
3	15.2	5.20	2.50	13.00	4.54%
4	20.4	5.20	3.30	17.16	6.00%
5	25.6	5.20	4.20	21.84	7.63%
6	30.8	5.20	4.60	23.92	8.36%
7	36.0	5.20	4.20	21.84	7.63%
8	41.2	5.20	5.20	27.04	9.45%
9	46.4	5.20	5.10	26.52	9.27%
10	51.6	5.20	5.10	26.52	9.27%
11	56.8	5.20	4.90	25.48	8.91%
12	62.0	5.20	4.20	21.84	7.63%
13	67.2	5.20	3.30	17.16	6.00%
14	72.4	5.20	2.30	11.96	4.18%
15	77.6	8.30	2.00	16.60	5.80%
16	89.0	5.70	0.00	0.00	0.00%
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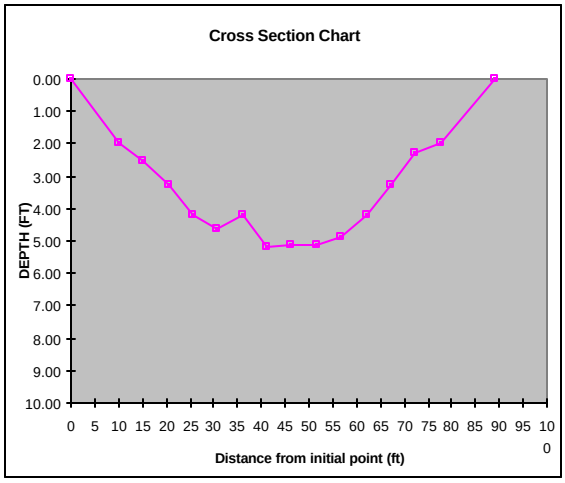
	Total	89.00		286.08	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Brignac, Griffith, Butler	Data Inputed by / Date:	Brignac 7-30-03
Notetaker/Recorder:	Brignac, Griffith, Butler	Data Input Checked by / Date:	Brignac 7-30-03
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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: 3CI Dye1 X1 **Subsegment:** 020101 **Waterbody:** Bayou Citamon

Site Description: Dye Run #1 Bayou Citamon X1 (GPS 3311538, 706164)

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 4/6/03

WIDTH[1] (ft):	87.00
AREA[2] (ft^2):	289.04
AVG. DEPTH[3] (ft):	3.32

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	5.14	2.00	10.27	3.55%
3	10.3	5.27	2.00	10.54	3.65%
4	15.5	5.27	2.50	13.18	4.56%
5	20.8	5.27	3.00	15.81	5.47%
6	26.1	5.27	3.80	20.03	6.93%
7	31.4	5.27	4.20	22.13	7.66%
8	36.6	5.27	5.10	26.88	9.30%
9	41.9	5.27	5.30	27.93	9.66%
10	47.2	5.27	5.10	26.88	9.30%
11	52.4	5.27	4.70	24.77	8.57%
12	57.7	5.27	4.20	22.13	7.66%
13	63.0	5.27	3.60	18.97	6.56%
14	68.2	5.27	2.80	14.76	5.11%
15	73.5	7.88	2.70	21.28	7.36%
16	84.0	6.75	2.00	13.49	4.67%
17	87.0	1.50	0.00	0.00	0.00%
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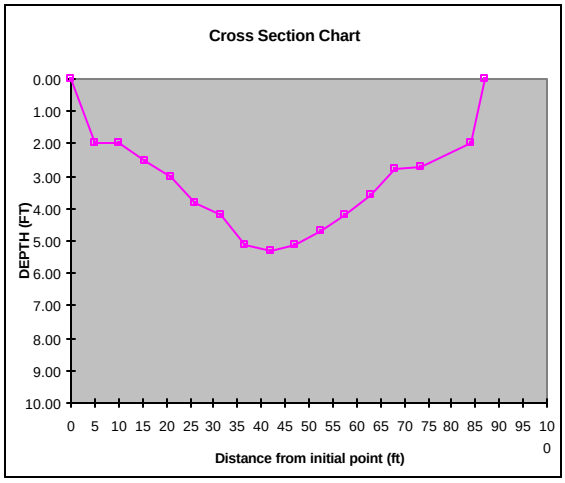
	Total	87.00		289.04	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Brignac, Butler, Griffith	Data Inputed by / Date:	6/12/03
Notetaker/Recorder:	Brignac	Data Input Checked by / Date:	
Other:			

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

STREAM CROSS-SECTION SPREADSHEET

Site Number: 3CI DR1 X-2 **Subsegment:** 020101 **Waterbody:** Bayou Citamon

Site Description: Dye Run #1 B. Citamon

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

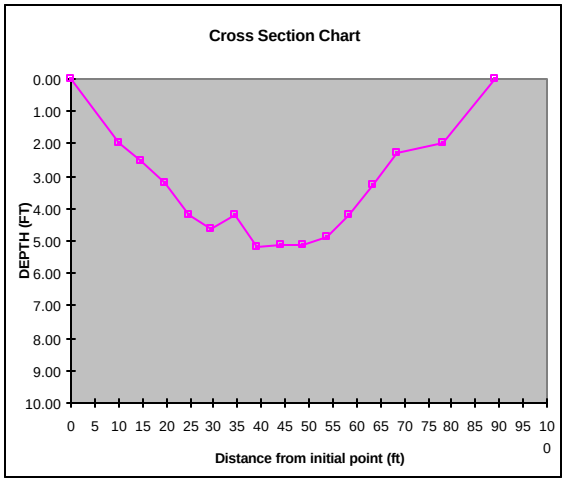
Tapedown:

Guage Height:

Date: 6/4/03

WIDTH[1] (ft):	89.00
AREA[2] (ft^2):	278.25
AVG. DEPTH[3](ft):	3.13

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	7.43	2.00	14.86	5.34%
3	14.9	4.86	2.50	12.15	4.37%
4	19.7	4.86	3.20	15.55	5.59%
5	24.6	4.86	4.20	20.41	7.34%
6	29.4	4.86	4.60	22.36	8.03%
7	34.3	4.86	4.20	20.41	7.34%
8	39.2	4.86	5.20	25.27	9.08%
9	44.0	4.86	5.10	24.79	8.91%
10	48.9	4.86	5.10	24.79	8.91%
11	53.7	4.86	4.90	23.81	8.56%
12	58.6	4.86	4.20	20.41	7.34%
13	63.5	4.86	3.30	16.04	5.76%
14	68.3	7.27	2.30	16.72	6.01%
15	78.0	10.34	2.00	20.68	7.43%
16	89.0	5.50	0.00	0.00	0.00%
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	89.00		278.25	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Brignac, Butler, Griffith	Data Inputed by / Date:	6/12/03
Notetaker/Recorder:	Brignac	Data Input Checked by / Date:	
Other:			

Note 1: WIDTH (ft) = sum of the width column
Note 2: AREA (sq.ft.) = sum of the area columr
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 C6

Velocity and Flow Information

Table C6.1 Acoustic Doppler and Manual Flow Meaurements for Subsegment 020201.

Station	Date	Run #	Start Time	Flow (cfs)	Method
BCH-3	6/3/03	1	13:43:15	407.40	Acoustic Doppler
		2	13:49:07	435.32	Acoustic Doppler
		3	13:53:30	459.56	Acoustic Doppler
		4	13:57:09	416.23	Acoustic Doppler
		AVG		429.63	
BCH-3	6/4/03	1	12:31:58	290.69	Acoustic Doppler
		2	12:39:01	293.38	Acoustic Doppler
		3	12:44:41	294.37	Acoustic Doppler
		4	12:51:23	300.58	Acoustic Doppler
		AVG		294.76	
BCH-2	6/4/03	1	13:16:04	270.35	Acoustic Doppler
		2	13:22:55	276.47	Acoustic Doppler
		3	13:29:12	268.92	Acoustic Doppler
		4	13:35:14	248.52	Acoustic Doppler
		AVG		266.06	
BCi-2	6/3/03	1	10:38:32	76.47	Acoustic Doppler
		2	10:42:41	80.68	Acoustic Doppler
		3	10:46:21	81.03	Acoustic Doppler
		4	10:50:51	77.97	Acoustic Doppler
		AVG		79.04	
BCi-4	6/3/03	1	11:30:27	153.95	Acoustic Doppler
		2	11:33:51	151.63	Acoustic Doppler
		3	11:37:31	155.90	Acoustic Doppler
		4	11:41:11	149.25	Acoustic Doppler
		AVG		152.69	
BCi-4	6/4/03	1	10:29:24	-82.39	Acoustic Doppler
		2	10:34:57	-81.48	Acoustic Doppler
		3	10:40:51	-82.44	Acoustic Doppler
		4	10:48:50	-79.32	Acoustic Doppler
		AVG		-81.41	
BCi-7	6/3/03	1	12:12:14	127.27	Acoustic Doppler
		2	12:14:34	128.11	Acoustic Doppler
		3	12:17:35	134.13	Acoustic Doppler
		4	12:20:04	126.78	Acoustic Doppler
		AVG		129.07	
BCi-7	6/4/03	1	11:18:06	58.05	Acoustic Doppler
		2	11:22:20	60.75	Acoustic Doppler
		3	11:27:04	60.89	Acoustic Doppler
		4	11:31:41	60.68	Acoustic Doppler
		AVG		60.09	
GB-1	6/4/03		14:00	36.74	Manual
SJC-1	6/4/03		09:34	35.67	Manual

Table C6.2 Drogue measurements for Bayou Chevreuil System

Adjustment factor = 1.16 (ratio of surface velocity to vertically average velocity from USGS manual)

Site Name	Date	Time	Horiz. Position	Distance (ft)	Time (min)	Velocity (ft/sec)	Adjusted Velocity (ft/sec)	Area (ft2)	Flow (cfs)	Comments in Field Notes
BV-1	06/03/03	11:45	mid	24	10.00	0.04	0.03	188.3	6.49	flowing upstream, flowing north
BV-1	06/04/03	10:20	mid	55	13.00	0.07	0.06	188.3	11.45	winda-aided
BCi-2	06/03/02	10:35	mid	52	5.00	0.17	0.15	245.6	36.70	flowing downstream
BCi-2	06/04/03	11:20	mid	0	5.00	0.00	0.00	245.6	0.00	
BCi-4	06/03/03	11:15	mid	79	2.25	0.59	0.50			flowing downstream
BCi-4	06/04/03	11:05	right	69	5.00	0.23	0.20			flowing downstream
BCi-4	06/04/03	11:05	left	63	5.00	0.21	0.18			flowing downstream
						6/4/03 AVG =	0.19	428.3	81.23	
BCi-7	06/03/03	11:35	mid	93	3.00	0.52	0.45			downstream
BCi-7	06/04/03	11:35	right	47	5.83	0.13	0.12			downstream
BCi-7	06/04/03	11:35	left	40	5.83	0.11	0.10			downstream
						6/4/03 AVG =	0.11	323.4	34.65	
BCh-2	06/03/03	10:45	right	150	8.62	0.29	0.25			downstream,southeast
BCh-2	06/03/03	10:45	mid	150	9.58	0.26	0.22			downstream,southeast
BCh-2	06/03/03	10:45	left	150	8.82	0.28	0.24			downstream,southeast
						6/3/03 AVG =	0.24	751.0	180.10	
BCh-2	06/04/03	11:09	right	250	12.32	0.34	0.29			downstream
BCh-2	06/04/03	11:09	mid	250	10.77	0.39	0.33			downstream
BCh-2	06/04/03	11:09	left	250	19.43	0.21	0.18			downstream
						6/4/03 AVG =	0.27	751.0	202.79	
BCh-4	06/03/03	9:55	mid	270	8.53	0.53	0.45	901.9	410.01	downstream,tidally influenced
BCh-4	06/04/03	8:20	right	270	22.02	0.20	0.18			downstream,tidally influenced
BCh-4	06/04/03	8:20	mid	270	15.88	0.28	0.24			downstream,tidally influenced
BCh-4	06/04/03	8:20	left	140	9.60	0.24	0.21			downstream,tidally influenced
						6/4/03 AVG =	0.21	901.9	189.39	
BkC-1	06/03/03	11:00	mid	58.2	3.25	0.30	0.26	273.0	70.24	downstream
BkC-1	06/04/03	9:00	mid	49	9.00	0.09	0.08	273.0	21.35	upstream,wind-aided
SJC-1	06/03/03	10:45	mid	51	3.00	0.28	0.24	148.1	36.18	upstream
GB-1	06/03/03	10:00	mid	75	3.25	0.38	0.33	155.8	51.67	downstream

Site Name	Date	Time	Horiz. Position	Distance (ft)	Time (min)	Velocity (ft/sec)	Adjusted Velocity (ft/sec)	Area (ft2)	Flow (cfs)	Comments in Field Notes
SJC-2	06/03/03	13:10	right	91	4.47	0.34	0.29			downstream,southeast
SJC-2	06/03/03	13:10	mid	91	4.75	0.32	0.28			downstream,southeast
SJC-2	06/03/03	13:10	left	91	5.60	0.27	0.23			downstream,southeast
						6/3/03 AVG =	0.27	476.4	127.27	
SJC-2	06/04/03	9:00	right	91	8.62	0.18	0.15			downstream,southeast
SJC-2	06/04/03	9:00	mid	91	6.33	0.24	0.21			downstream,southeast
SJC-2	06/04/03	9:00	left	91	6.25	0.24	0.21			downstream,southeast
						6/4/03 AVG =	0.19	476.4	90.10	
DBC-1	06/03/03	14:19	right	18			0.00			downstream,south - no flow
DBC-1	06/03/03	14:19	mid	18	6.10	0.05	0.04			downstream,south
DBC-1	06/03/03	14:19	left	18			0.00			downstream,south - no flow
						6/3/03 AVG =	0.01	151.6	2.14	
DBC-1	06/04/03	10:13	right	38	4.87	0.13	0.11			downstream
DBC-1	06/04/03	10:13	mid	38	5.78	0.11	0.09			downstream
DBC-1	06/04/03	10:13	left	38	8.92	0.07	0.06			downstream
						6/4/03 AVG =	0.09	151.6	13.54	

FILE: R:\PROJECTS\3110-051\CHEVREUIL PDF\CHEVREUIL DROGUE FLOW MEASUREMENTS.XLS

Table C6.3. Results of Dye Study for Bayou Citamon (Subsegment 020101)

Sample ID	Date / Time	Adjusted 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	6/04/03 09:10		704558	3312332	0				
	RUN 1								
BG1 RUN1	6/04/03 16:01	0	705826	3311583	1473	170	0	1558	0
01 RUN1	6/04/03 14:12	1.52	706164	3311538	1814	202	306	1744	533585
02 RUN1	6/04/03 14:14	2.14	706226	3311534	1876	86	184	1888	347990
TRIB1R1	6/04/03 14:15	14.40	706325	3311485	1986	88	1269	1975	2506624
03 RUN1	6/04/03 14:18	34.20	706364	3311432	2052	90	3087	2064	6373044
04 RUN1	6/04/03 14:20	16.20	706463	3311374	2167	94	1523	2156	3283558
05 RUN 1	6/04/03 14:22	27.60	706536	3311380	2240	78	2159	2243	4841131
06 RUN1	6/04/03 14:24	40.10	706618	3311394	2323	94	3778	2329	8797141
TRIB 2	6/04/03 14:26	50.60	706722	3311410	2428	114	5768	2433	14033657
07 RUN1	6/04/03 14:31	41.60	706837	3311453	2551	125	5188	2552	13239694
08 RUN1	6/04/03 14:33	32.60	706952	3311506	2678	119	3872	2674	10354426
09 RUN1	6/04/03 14:34	21.60	707050	3311558	2789	84	1804	2775	5005808
15 RUN1	6/04/03 14:58	9.52	707098	3311587	2845	60	575	2847	1636267
16 RUN1	6/04/03 15:01	7.94	707148	3311628	2910	56	447	2905	1299591
17 RUN1	6/04/03 15:04	3.13	707187	3311656	2958	76	237	2971	704403
BG2 RUN1	6/04/03 16:37	0	707274	3311712	3061	52	0	3035	0
Median =	6/04/03 14:25		Location of center of mass =		2416	sum =	30197	sum =	72956919
Elapsed time (hrs) = 5.26									
Avg velocity (since injection) =		0.13 m/sec	=	0.42 ft/sec					
	RUN 2								
BG1 RUN2	06/05/03 13:10	0.01	708151	3312084	3602	110	1	3656	4013
01 RUN2	06/05/03 13:10	0.20	708367	3312123	3821	175	35	3799	133191
02 RUN2	06/05/03 13:12	1.09	708497	3312140	3952	124	135	3949	534774
03 RUN2	06/05/03 13:14	3.02	708613	3312158	4070	119	359	4070	1461604
04 RUN2	06/05/03 13:15	4.81	708723	3312207	4190	134	646	4197	2709175
05 RUN2	06/05/03 13:18	7.19	708822	3312317	4338	120	861	4324	3721696
06 RUN2	06/05/03 13:19	7.69	708891	3312377	4429	175	1349	4471	6033176
07 RUN2	06/05/03 13:24	9.12	709134	3312468	4689	240	2185	4679	10224572
08 RUN2	06/05/03 13:28	8.50	709353	3312486	4909	225	1914	4911	9400548
09 RUN2	06/05/03 13:31	5.98	709583	3312503	5139	253	1515	5151	7804287
10 RUN2	06/05/03 13:35	4.80	709858	3312528	5415	226	1085	5390	5850253
11 RUN2	06/05/03 13:38	1.50	710032	3312501	5591	132	198	5569	1103690
12 RUN2	06/05/03 13:40	0.75	710112	3312464	5680	68	51	5669	286858
13 RUN2	06/05/03 13:41	0.16	710153	3312440	5727	74	12	5740	68888
BG2 RUN2	06/05/03 13:41	0	710244	3312397	5828	50	0	5803	0
Median =	06/05/03 13:24		Location of center of mass =		4768	sum =	10347	sum =	49336726
Elapsed time (hrs) = 28.24									
Avg velocity (since injection) =		0.05 m/sec	=	0.15 ft/sec					

Note: The adjusted dye concentrations are the measured dye concentrations at each location minus the lowest measured concentration for that run (-1.4 ppb for Run 1 and -0.08 ppb for Run 2). Therefore, the adjusted concentrations are the measured concentrations plus 1.4 for Run 1 and the measured concentrations plus 0.08 for Run 2.

FILE: R:\PROJECTS\3110-051\LA-QUAL\CHEVREUIL\REVISIONS\CIT_DYE-UPDATED.XLS

Table C6.4. Results of Dye Study for Bayou Chevreuil (Subsegment 020101)

Sample ID	Date / Time	Adjusted 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	06/04/03 10:27		721271	3310120	0				
	RUN 1								
BG RUN 1	6/4/03 14:08	0	721897	3310287	648	118	0	707	0
01 RUN1	6/4/03 14:12	2.96	722133	3310298	884	147	435	839	365054
02 RUN1	6/4/03 14:14	9.74	722188	3310281	942	88	857	957	820077
04 RUN1	6/4/03 14:20	11.20	722302	3310249	1060	111	1244	1056	1314731
05 RUN 1	6/4/03 14:22	16.90	722399	3310212	1164	110	1866	1167	2177994
06 RUN1	6/4/03 14:24	33.20	722510	3310175	1281	116	3867	1281	4952500
07 RUN1	6/4/03 14:31	45.80	722616	3310128	1397	122	5590	1400	7825831
08 RUN1	6/4/03 14:33	39.30	722734	3310078	1525	121	4775	1522	7265602
09 RUN1	6/4/03 14:34	22.70	722842	3310039	1640	127	2880	1646	4740381
10 RUN1	6/4/03 14:37	24.30	722972	3309990	1779	135	3277	1777	5822440
11 RUN1	6/4/03 14:39	18.50	723092	3309938	1910	94	1748	1891	3306060
12 RUN1	6/4/03 14:40	3.18	723143	3309910	1968	58	184	1968	362560
13 RUN1	6/4/03 14:42	16.60	723194	3309883	2025	114	1897	2054	3895982
14 RUN1	6/4/03 14:56	1.10	723352	3309818	2196	94	103	2158	223191
15 RUN1	6/4/03 14:58	12.70	723362	3309804	2214	46	578	2228	1287674
16 RUN1	6/4/03 15:01	2.44	723435	3309815	2287	81	197	2291	452346
17 RUN1	6/4/03 15:04	2.06	723523	3309813	2375	74	152	2368	360347
BG2 RUN1	6/4/03 15:05	0.10	723582	3309803	2435	30	3	2420	7242
Median =	6/4/03 14:36		Location of center of mass =		1524	sum =	29654	sum =	45180010
Elapsed time (hrs) = 4.15									
Avg velocity (since injection) =		0.10 m/sec	=	0.33 ft/sec					
	RUN 2								
BG1 RUN2	6/4/03 18:32	0.80	723073	3309946	1810	74	59	1847	109100
01 RUN2	6/4/03 18:37	2.11	723203	3309876	1958	104	220	1936	426219
02 RUN2	6/4/03 18:38	4.93	723251	3309839	2019	101	496	2039	1011188
03 RUN2	6/4/03 18:40	4.76	723389	3309812	2159	125	597	2152	1283573
04 RUN2	6/4/03 18:41	7.79	723499	3309815	2269	102	791	2265	1791821
05 RUN2	6/4/03 18:42	11.50	723591	3309801	2362	111	1279	2371	3033649
06 RUN2	6/4/03 18:44	13.80	723684	3309711	2492	148	2047	2501	5120269
07 RUN2	6/4/03 18:46	16.90	723788	3309580	2659	146	2463	2648	6523651
08 RUN2	6/4/03 18:48	17.20	723856	3309476	2783	148	2543	2795	7106850
09 RUN2	6/4/03 18:50	10.33	723920	3309317	2955	179	1846	2958	5460202
10 RUN2	6/4/03 18:53	10.46	723977	3309140	3141	140	1461	3117	4553754
11 RUN2	6/4/03 18:55	5.89	724070	3309148	3234	131	769	3253	2500422
12 RUN2	6/4/03 18:57	5.97	724234	3309183	3402	166	989	3401	3363862
13 RUN2	6/4/03 19:00	5.00	724397	3309198	3565	173	867	3570	3094363
14 RUN2	6/4/03 19:03	3.97	724577	3309165	3748	225	893	3769	3365830
15 RUN2	6/4/03 19:06	2.40	724757	3308968	4015	173	416	3968	1651314
16 RUN2	6/4/03 19:07	1.43	724813	3308911	4095	64	91	4087	371644
BG2 RUN2	6/4/03 19:11	0	724859	3308899	4143	24	0	4131	0
Median =	6/4/03 18:49		Location of center of mass =		2848	sum =	17826	sum =	50767712
Elapsed time (hrs) = 8.38									
Avg velocity (since injection) =		0.09 m/sec	=	0.31 ft/sec					

Sample ID	Date / Time	Adjusted 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								
BG1 RUN3	6/5/03 9:36	0	726313	3308818	5207	-128	0	5143	0
01 RUN3	6/5/03 9:41	1.06	726058	3308839	4952	-231	245	4964	1215546
02 RUN3	6/5/03 9:45	2.04	725874	3308931	4746	-236	482	4730	2280879
03 RUN3	6/5/03 9:51	3.77	725611	3308885	4479	-274	1033	4475	4623376
04 RUN3	6/5/03 9:56	6.08	725330	3308879	4198	-238	1448	4219	6110367
05 RUN3	6/5/03 10:00	9.31	725142	3308826	4002	-180	1680	4010	6738073
06 RUN3	6/5/03 10:02	12.20	724981	3308865	3837	-174	2124	3833	8139088
07 RUN3	6/5/03 10:05	13.10	724807	3308920	3654	-190	2493	3650	9099184
08 RUN3	6/5/03 10:08	12.00	724680	3309072	3456	-173	2075	3469	7197673
09 RUN3	6/5/03 10:10	9.55	724566	3309166	3308	-158	1510	3303	4988571
10 RUN3	6/5/03 10:13	6.40	724400	3309195	3140	-151	967	3149	3044359
11 RUN3	6/5/03 10:15	5.00	724267	3309182	3006	-173	864	2987	2579580
12 RUN3	6/5/03 10:18	2.98	724060	3309137	2794	-185	553	2808	1551483
13 RUN3	6/5/03 10:22	1.94	723931	3309230	2635	-131	255	2649	674354
14 RUN3	6/5/03 10:24	1.51	723918	3309332	2533	-89	134	2540	341009
15 RUN3	6/5/03 10:25	1.26	723891	3309402	2458	-65	82	2462	203016
16 RUN3	6/5/03 10:27	1.07	723868	3309453	2402	-276	294	2292	674765
BG1 RUN3	6/5/03 22:33	0.30	723525	3309812	1905	-248	74	2029	151135
Median =	6/5/03 10:09		Location of center of mass =		3654	sum =	16314	sum =	59612458
Elapsed time (hrs) = 23.71									
Avg velocity (since injection) =		0.04 m/sec	=	0.14 ft/sec					

Note: The adjusted dye concentrations are the measured dye concentrations at each location minus the lowest measured concentration for that run (-1.1 ppb for Run 1, -1.2 ppb for Run 2, and -1.0 ppb for Run 3). Therefore, the adjusted concentrations are the measured concentrations plus 1.1 for Run 1, the measured concentrations plus 1.2 for Run 2, and the measured concentrations plus 1.0 for Run 3.

FILE: R:\PROJECTS\3110-051\LA-QUAL\CHEVREUIL\REVISIONS\CHEV_DYE-UPDATED.XLS

Table C6.5. Flow Calculations from Dye Studies.

Bayou Citamon Injection: 6/4/03 9:10:00 AM

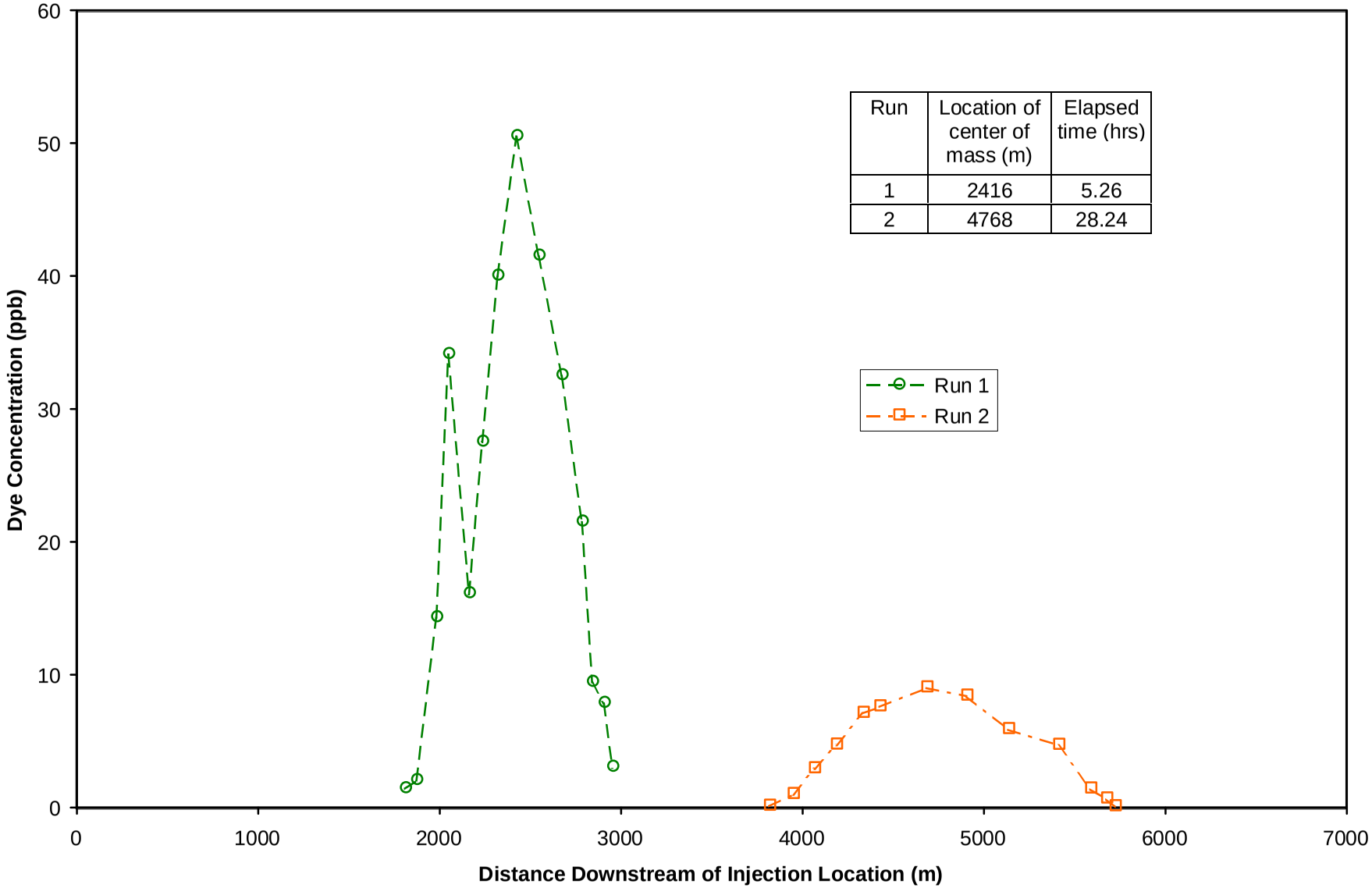
Run	Location of center of mass from injection point (m)	Elapsed time (hrs)	Average velocity (m/s) since injection	area (ft2) of BCi-2	area (m2) of BCi-2	flow rate (cms)	flow rate (cfs)
1	2416	5.26	0.13	245.6	22.81	2.91	102.9
2	4768	28.24	0.05	245.6	22.81	1.07	37.8
					Average =	**1.99**	**70.3**

Bayou Chevreuil Injection: 6/4/03 10:27:00 AM

Run	Location of center of mass from injection point (m)	Elapsed time (hrs)	Average velocity (m/s) since injection	area (ft2) of BCh-2	area (m2) of BCh-2	flow rate (cms)	flow rate (cfs)
1	1524	4.15	0.10	751.0	69.76	7.11	251.3
2	2848	8.38	0.09	751.0	69.76	6.59	232.7
3	3654	23.71	0.04	751.0	69.76	2.99	105.5
					Average =	**5.56**	**196.5**

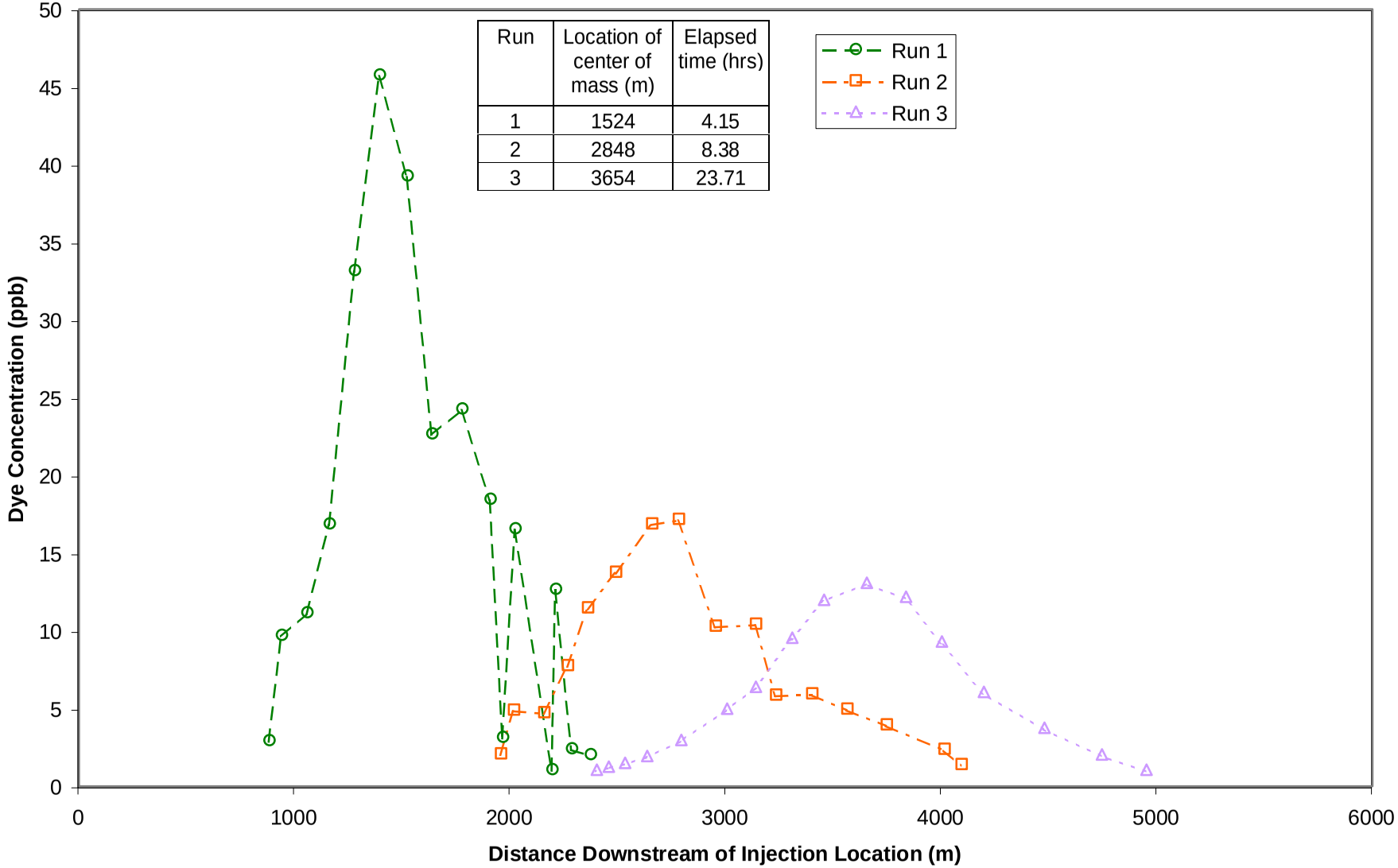
FILE: R:\PROJECTS\3110-051\LA-QUAL\CHEVREUIL\REVISIONS\CHEVREUIL_FLOWBALANCE.XLS

Figure C6.1. Results of Bayou Citamon Dye Study on June 4-5, 2003



Run	Location of center of mass (m)	Elapsed time (hrs)
1	2416	5.26
2	4768	28.24

Figure C6.2. Results of Bayou Chevreuil Dye Study on June 4-5, 2003



Run	Location of center of mass (m)	Elapsed time (hrs)
1	1524	4.15
2	2848	8.38
3	3654	23.71

APPENDIX C7

Dispersion Coefficient Calculations

Table C.7.1. Summary of Dispersion Calculations from Dye Studies.

Bayou Citamon Injection: 6/4/03 9:10:00 AM

Run	Elapsed time (hrs)	Dispersion (ft^2/sec)	Dispersion (m^2/sec)	Comment
1	5.26	10.4	0.97	center of mass in Reach 4,
2	28.24	9.4	0.87	center of mass in Reach 5,value used in model

Bayou Chevreuil Injection: 6/4/03 10:27:00 AM

Run	Elapsed time (hrs)	Dispersion (ft^2/sec)	Dispersion (m^2/sec)	Comment
1	4.10	29.8	2.77	center of mass in Reach 8
2	8.38	24.9	2.32	center of mass in Reach 8
3	23.71	17.5	1.63	center of mass in Reach 8, value used in model

FILE: R:\PROJECTS\3110-051\LA-QUAL\CHEVREUIL\REVISIONS\SUMMARY_DISPERSION FOR REPORT.XLS

TABLE C.7.2 DYE CONCENTRATIONS VS. DISTANCE FOR BAYOU CITAMON RUN 1

ASSUMES 1-D ANALYSIS (LATERALLY AND VERTICALLY MIXED) OF SLUG INJECTION
ASSUMED SIMILAR TO BAYOU ABOVE LAKE CATAOUATCHE
DATA INPUT CELLS

AVG FLOW =	11.8	cfs (calculated)
MEAN VELOCITY =	0.04	ft/sec (adjust to match breadth of predicted and observed curves)
AVG XS AREA =	294	ft^2 (calculated)
AVG DEPTH =	3.32	ft (average of 3 measurements)
AVG WIDTH =	88.7	ft (average of 3 measurements)
ELAPSED TIME =	7.2	hr (average elapsed time from injection to measurement)
INJECT. MASS =	20	lbs stock solution (20% dye)
ADV VELOCITY =	0.33	ft/sec (adjust to get predicted and observed data lined up horizontally)

PREDICTED MAXIMUM DYE CONCENTRATION =	118.06	ppb	(1-D advective dispersion equation)
ADJUSTMENT FACTOR FOR DYE LOSS =	0.45		(less chloride than subseg. 020303)
ADJUSTED MAXIMUM DYE CONCENTRATION =	53.13	ppb	(after applying dye loss factor)

LONGITUDINAL DISPERSION COEFFICIENT =	10.4	ft^2/sec	(eqn. 5.19 from Fischer et al, 1979)
ADJUSTMENT FACTOR FOR DISPERSION =	1		(less tidal influence than subseg. 020303)
ADJUSTED LONGITUDINAL DISPERS. COEFF. =	10.4	ft^2/sec	(after applying adjustment factor)
=	0.97	m^2/sec	(converted to metric)

DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	PREDIC. CONC. (ppb)
-1000	-0.62	0.00
-840	-0.52	0.00
-680	-0.42	0.00
-520	-0.32	0.00
-360	-0.22	0.00
-200	-0.12	0.00
-40	-0.02	0.00
120	0.07	0.00
280	0.17	0.00
440	0.27	0.00
600	0.37	0.00
760	0.47	0.00
920	0.57	0.00
1080	0.67	0.00
1240	0.77	0.00
1400	0.87	0.00
1560	0.97	0.00
1720	1.07	0.02
1880	1.17	0.27
2040	1.27	2.16
2200	1.37	10.20
2360	1.47	28.92
2520	1.57	49.26
2680	1.67	50.39
2840	1.76	30.96
3000	1.86	11.43
3160	1.96	2.53
3320	2.06	0.34
3480	2.16	0.03
3640	2.26	0.00
3800	2.36	0.00

DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	OBSERV. CONC. (ppb)
1672	1.04	0.000
2012	1.25	1.518
2074	1.29	2.136
2190	1.36	14.400
2255	1.40	34.200
2371	1.47	16.200
2445	1.52	27.600
2528	1.57	40.100
2633	1.64	50.600
2755	1.71	41.600
2882	1.79	32.600
2993	1.86	21.600
3049	1.89	9.520
3115	1.94	7.940
3162	1.96	3.130
3265	2.03	0.000

TABLE C.7.3 DYE CONCENTRATIONS VS. DISTANCE FOR BAYOU CITAMON RUN 2

ASSUMES 1-D ANALYSIS (LATERALLY AND VERTICALLY MIXED) OF SLUG INJECTION
COMPARES THEORETICAL WITH FIELD DATA
DATA INPUT CELLS

AVG FLOW =	9.5	cfs (calculated)
MEAN VELOCITY =	0.028	ft/sec (adjust to match breadth of predicted and observed curves)
AVG XS AREA =	339	ft^2 (calculated)
AVG DEPTH =	3.35	ft (average of 7 measurements)
AVG WIDTH =	101.1	ft (average of 7 measurements)
ELAPSED TIME =	28.26	hr (average elapsed time from injection to measurement)
INJECT. MASS =	20	lbs stock solution (20% dye)
ADV VELOCITY =	0.174	ft/sec (adjust to get predicted and observed data lined up horizontally)

PREDICTED MAXIMUM DYE CONCENTRATION =	54.58	ppb	(1-D advective dispersion equation)
ADJUSTMENT FACTOR FOR DYE LOSS =	0.17		(less chloride than subseg. 020303)
ADJUSTED MAXIMUM DYE CONCENTRATION =	9.28	ppb	(after applying dye loss factor)

LONGITUDINAL DISPERSION COEFFICIENT =	9.4	ft^2/sec	(eqn. 5.19 from Fischer et al, 1979)
ADJUSTMENT FACTOR FOR DISPERSION =	1		(less tidal influence than subseg. 020303)
ADJUSTED LONGITUDINAL DISPERS. COEFF. =	9.4	ft^2/sec	(after applying adjustment factor)
=	0.87	m^2/sec	(converted to metric)

DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	PREDIC. CONC. (ppb)
-1700	-1.06	0.00
-1500	-0.93	0.00
-1300	-0.81	0.00
-1100	-0.68	0.00
-900	-0.56	0.00
-700	-0.43	0.00
-500	-0.31	0.00
-300	-0.19	0.00
-100	-0.06	0.00
100	0.06	0.00
300	0.19	0.00
500	0.31	0.00
700	0.43	0.00
900	0.56	0.00
1100	0.68	0.00
1300	0.81	0.00
1500	0.93	0.00
1700	1.06	0.00
1900	1.18	0.00
2100	1.30	0.00
2300	1.43	0.00
2500	1.55	0.00
2700	1.68	0.00
2900	1.80	0.00
3100	1.93	0.00
3300	2.05	0.00
3500	2.17	0.00
3700	2.30	0.00
3900	2.42	0.02
4100	2.55	0.08
4300	2.67	0.32
4500	2.80	0.97
4700	2.92	2.38
4900	3.04	4.65
5100	3.17	7.26
5300	3.29	9.04
5500	3.42	9.00
5700	3.54	7.15
5900	3.67	4.53
6100	3.79	2.30
6300	3.91	0.93
6500	4.04	0.30
6700	4.16	0.08
6900	4.29	0.02
7100	4.41	0.00
7300	4.54	0.00
7500	4.66	0.00
7700	4.78	0.00
7900	4.91	0.00

DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	OBSERV. CONC. (ppb)
4226	2.63	0.01
4445	2.76	0.20
4576	2.84	1.09
4695	2.92	3.02
4821	3.00	4.81
4970	3.09	7.19
5062	3.15	7.69
5319	3.31	9.12
5539	3.44	8.50
5770	3.59	5.98
6045	3.76	4.80
6221	3.87	1.50
6309	3.92	0.75
6357	3.95	0.16
6457	4.01	0.00

TABLE C.7.4. DYE CONCENTRATIONS VS. DISTANCE FOR BAYOU CHEVREUIL RUN 1

ASSUMES 1-D ANALYSIS (LATERALLY AND VERTICALLY MIXED) OF SLUG INJECTION
ASSUMED SIMILAR TO BAYOU ABOVE LAKE CATAOUATCHE
DATA INPUT CELLS

AVG FLOW =	48.8	cfs (calculated)
MEAN VELOCITY =	0.06	ft/sec (defined as shear velocity times 10 - vary to adjust breadth of predicted curve)
AVG XS AREA =	813	ft^2 (calculated)
AVG DEPTH =	5.27	ft (average of 3 measurements)
AVG WIDTH =	154.3	ft (average of 3 measurements)
ELAPSED TIME =	4.14	hr (average elapsed time from injection to measurement)
INJECT. MASS =	50	lbs stock solution (20% dye)
ADV VELOCITY =	0.35	ft/sec (net velocity - adjust to get predicted and observed data lined up horizontally)

PREDICTED MAXIMUM DYE CONCENTRATION =	83.36	ppb	(one dimensional advective dispersion equation)
ADJUSTMENT FACTOR FOR DYE LOSS =	0.55		(adjust to match areas under predicted and observed curves)
ADJUSTED MAXIMUM DYE CONCENTRATION =	45.85	ppb	(after applying dye loss factor)

LONGITUDINAL DISPERSION COEFFICIENT =	29.8	ft^2/sec	(eqn. 5.19 from Fischer et al, 1979)
ADJUSTMENT FACTOR FOR DISPERSION =	1		(assume equal to 1 unless hard data indicates otherwise)
ADJUSTED LONGITUDINAL DISPERS. COEFF. =	29.8	ft^2/sec	(after applying adjustment factor)
=	2.77	m^2/sec	(converted to metric)

DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	PREDIC. CONC. (ppb)
-1000	-0.62	0.00
-840	-0.52	0.00
-680	-0.42	0.00
-520	-0.32	0.00
-360	-0.22	0.00
-200	-0.12	0.00
-40	-0.02	0.00
120	0.07	0.00
280	0.17	0.00
440	0.27	0.02
600	0.37	0.12
760	0.47	0.71
920	0.57	3.03
1080	0.67	9.49
1240	0.77	21.84
1400	0.87	36.85
1560	0.97	45.60
1720	1.07	41.39
1880	1.17	27.55
2040	1.27	13.45
2200	1.37	4.82
2360	1.47	1.26
2520	1.57	0.24
2680	1.67	0.03
2840	1.76	0.00
3000	1.86	0.00
3160	1.96	0.00
3320	2.06	0.00
3480	2.16	0.00
3640	2.26	0.00
3800	2.36	0.00

DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	OBSERV. CONC. (ppb)
740	0.46	0.000
975	0.61	2.960
1033	0.64	9.740
1152	0.72	11.200
1256	0.78	16.900
1371	0.85	33.200
1488	0.92	45.800
1614	1.00	39.300
1731	1.08	22.700
1870	1.16	24.300
2001	1.24	18.500
2116	1.31	16.600
2306	1.43	12.700
2379	1.48	2.440
2466	1.53	2.058
2524	1.57	0.100

TABLE C7.5. DYE CONCENTRATIONS VS. DISTANCE FOR BAYOU CHEVREUIL RUN 2

ASSUMES 1-D ANALYSIS (LATERALLY AND VERTICALLY MIXED) OF SLUG INJECTION
COMPARES THEORETICAL WITH FIELD DATA
DATA INPUT CELLS

AVG FLOW =	44.5	cfs (calculated)
MEAN VELOCITY =	0.05	ft/sec (defined as shear velocity times 10 - vary to adjust breadth of predicted curve)
AVG XS AREA =	890	ft^2 (calculated)
AVG DEPTH =	5.59	ft (average of 7 measurements)
AVG WIDTH =	159.2	ft (average of 7 measurements)
ELAPSED TIME =	8.4	hr (average elapsed time from injection to measurement)
INJECT. MASS =	50	lbs stock solution (20% dye)
ADV VELOCITY =	0.32	ft/sec (net velocity - adjust to get predicted and observed data lined up horizontally)

PREDICTED MAXIMUM DYE CONCENTRATION =	58.47	ppb	(one dimensional advective dispersion equa
ADJUSTMENT FACTOR FOR DYE LOSS =	0.3		(adjust to match areas under predicted anc
ADJUSTED MAXIMUM DYE CONCENTRATION =	17.54	ppb	(after applying dye loss factor)

LONGITUDINAL DISPERSION COEFFICIENT =	24.9	ft^2/sec	(eqn. 5.19 from Fischer et al, 1979)
ADJUSTMENT FACTOR FOR DISPERSION =	1		(assume equal to 1 unless hard data indica
ADJUSTED LONGITUDINAL DISPERS. COEFF. =	24.9	ft^2/sec	(after applying adjustment factor)
=	2.32	m^2/sec	(converted to metric)

DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	PREDIC. CONC. (ppb)
-1700	-1.06	0.00
-1500	-0.93	0.00
-1300	-0.81	0.00
-1100	-0.68	0.00
-900	-0.56	0.00
-700	-0.43	0.00
-500	-0.31	0.00
-300	-0.19	0.00
-100	-0.06	0.00
100	0.06	0.00
300	0.19	0.00
500	0.31	0.00
700	0.43	0.00
900	0.56	0.00
1100	0.68	0.00
1300	0.81	0.00
1500	0.93	0.01
1700	1.06	0.07
1900	1.18	0.34
2100	1.30	1.34
2300	1.43	3.89
2500	1.55	8.53
2700	1.68	14.05
2900	1.80	17.39
3100	1.93	16.18
3300	2.05	11.32
3500	2.17	5.95
3700	2.30	2.35
3900	2.42	0.70
4100	2.55	0.16
4300	2.67	0.03

DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	OBSERV. CONC. (ppb)
1981	1.23	0.800
2133	1.33	2.114
2192	1.36	4.930
2334	1.45	4.760
2445	1.52	7.790
2539	1.58	11.500
2670	1.66	13.800
2843	1.77	16.900
2965	1.84	17.200
3138	1.95	10.330
3329	2.07	10.460
3426	2.13	5.890
3594	2.23	5.970
3758	2.34	5.000
3943	2.45	3.970
4210	2.62	2.400
4291	2.67	1.427
4339	2.70	0.000

TABLE C7.6. DYE CONCENTRATIONS VS. DISTANCE FOR BAYOU CHEVREUIL RUN 3

ASSUMES 1-D ANALYSIS (LATERALLY AND VERTICALLY MIXED) OF SLUG INJECTION
COMPARES THEORETICAL WITH FIELD DATA
DATA INPUT CELLS

AVG FLOW =	31.9	cfs (calculated)
MEAN VELOCITY =	0.036	ft/sec (defined as shear velocity times 10 - vary to adjust breadth of predicted curve)
AVG XS AREA =	887	ft^2 (calculated)
AVG DEPTH =	5.62	ft (average of 7 measurements)
AVG WIDTH =	157.8	ft (average of 7 measurements)
ELAPSED TIME =	23.68	hr (average elapsed time from injection to measurement)
INJECT. MASS =	50	lbs stock solution (20% dye)
ADV VELOCITY =	0.162	ft/sec (net velocity - adjust to get predicted and observed data lined up horizontally)

PREDICTED MAXIMUM DYE CONCENTRATIOI	41.66	ppb	(one dimensional advective dispersion equation)
ADJUSTMENT FACTOR FOR DYE LOSS =	0.32		(adjust to match areas under predicted and observed curves)
ADJUSTED MAXIMUM DYE CONCENTRATION	13.33	ppb	(after applying dye loss factor)

LONGITUDINAL DISPERSION COEFFICIENT =	17.5	ft^2/sec	(eqn. 5.19 from Fischer et al, 1979)
ADJUSTMENT FACTOR FOR DISPERSION =	1		(assume equal to 1 unless hard data indicates otherwise)
ADJUSTED LONGITUDINAL DISPERS. COEFF.	17.5	ft^2/sec	(after applying adjustment factor)
=	1.63	m^2/sec	(converted to metric)

DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	PREDIC. CONC. (ppb)
-1700	-1.06	0.00
-1500	-0.93	0.00
-1300	-0.81	0.00
-1100	-0.68	0.00
-900	-0.56	0.00
-700	-0.43	0.00
-500	-0.31	0.00
-300	-0.19	0.00
-100	-0.06	0.00
100	0.06	0.00
300	0.19	0.00
500	0.31	0.00
700	0.43	0.00
900	0.56	0.00
1100	0.68	0.00
1300	0.81	0.00
1500	0.93	0.00
1700	1.06	0.00
1900	1.18	0.00
2100	1.30	0.00
2300	1.43	0.02
2500	1.55	0.07
2700	1.68	0.22
2900	1.80	0.61
3100	1.93	1.46
3300	2.05	3.01
3500	2.17	5.39
3700	2.30	8.36
3900	2.42	11.22
4100	2.55	13.05
4300	2.67	13.14
4500	2.80	11.45
4700	2.92	8.65
4900	3.04	5.65
5100	3.17	3.20
5300	3.29	1.57
5500	3.42	0.67
5700	3.54	0.24
5900	3.67	0.08
6100	3.79	0.02
6300	3.91	0.01
6500	4.04	0.00
6700	4.16	0.00
6900	4.29	0.00
7100	4.41	0.00
7300	4.54	0.00
7500	4.66	0.00
7700	4.78	0.00
7900	4.91	0.00

DISTANCE DOWNSTREAM FROM INJECTION (meters)	(miles)	OBSERV. CONC. (ppb)
5859	3.64	0.000
5603	3.48	1.061
5393	3.35	2.040
5124	3.18	3.770
4835	3.00	6.080
4635	2.88	9.310
4467	2.78	12.200
4282	2.66	13.100
4083	2.54	12.000
3935	2.45	9.550
3763	2.34	6.400
3629	2.25	5.000
3417	2.12	2.980
3225	2.00	1.944
3121	1.94	1.510
3046	1.89	1.259
2990	1.86	1.066
2470	1.53	0.300

Figure C.7.1. Predicted and Observed Dye Concentrations For Bayou Citamon Dye Run 1

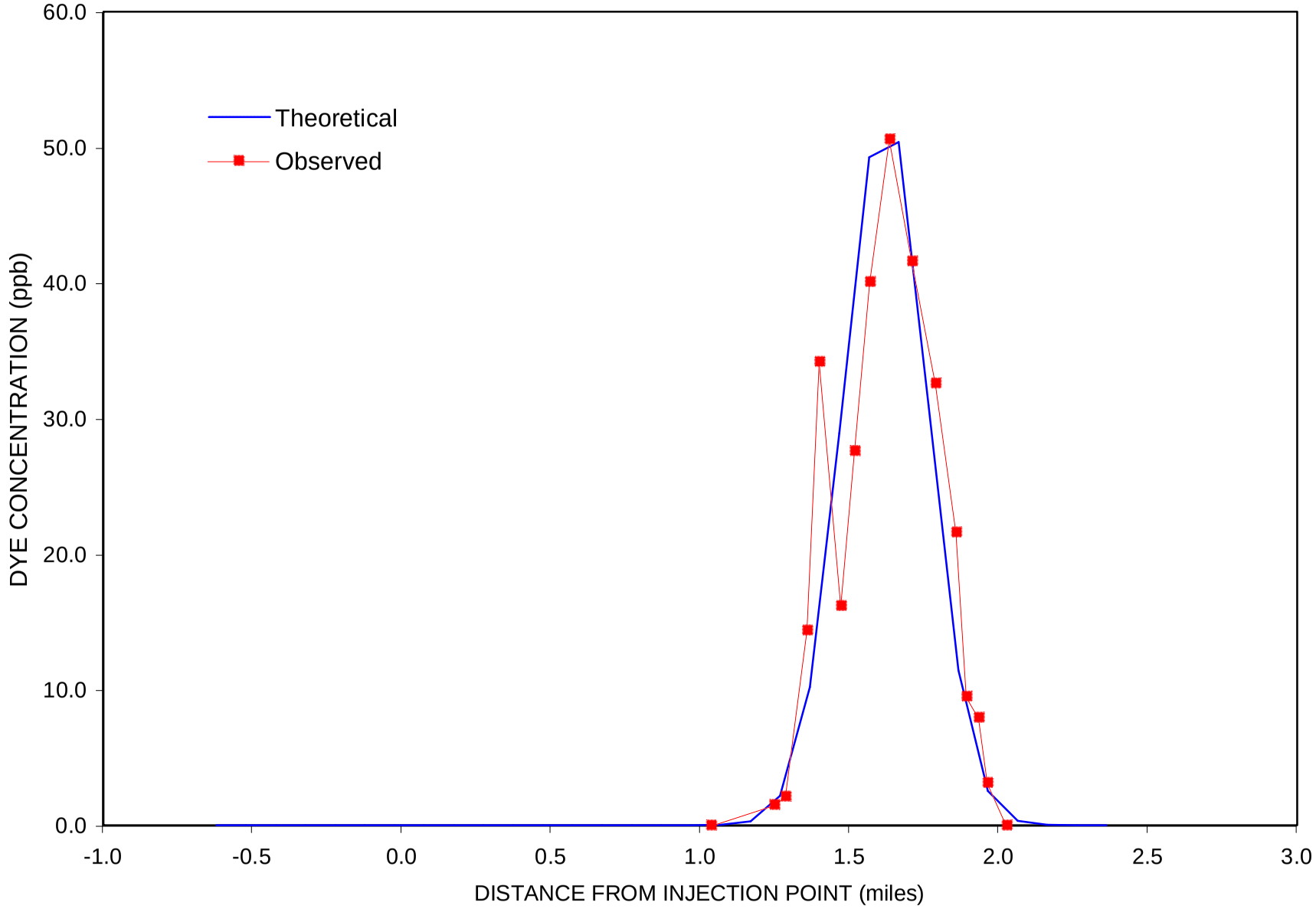


Figure C.7.2. Predicted and Observed Dye Concentrations For Bayou Citamon Dye Run 2

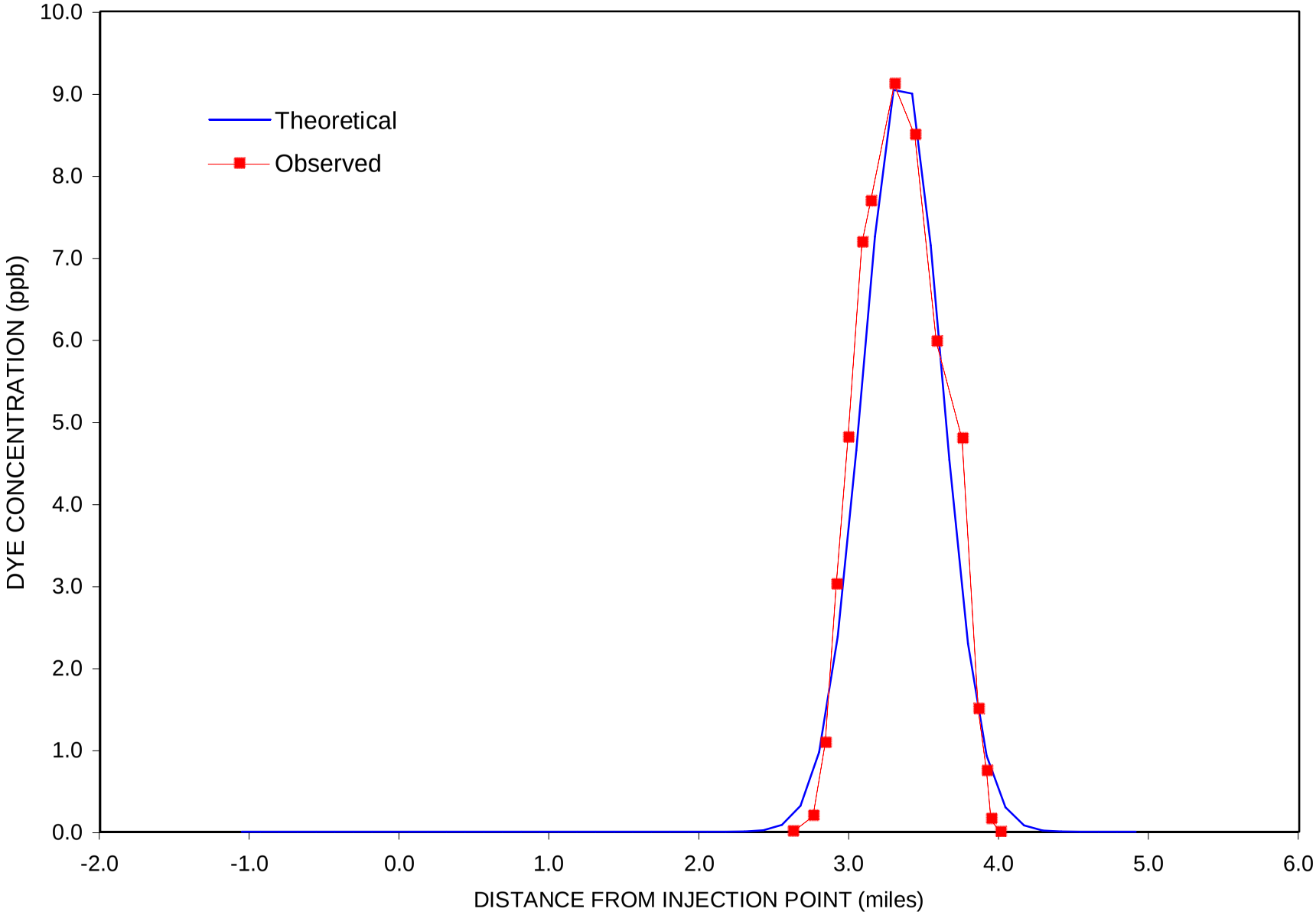


Figure C.7.3. Predicted and Observed Dye Concentrations For Bayou Cehvreuil Dye Run 1

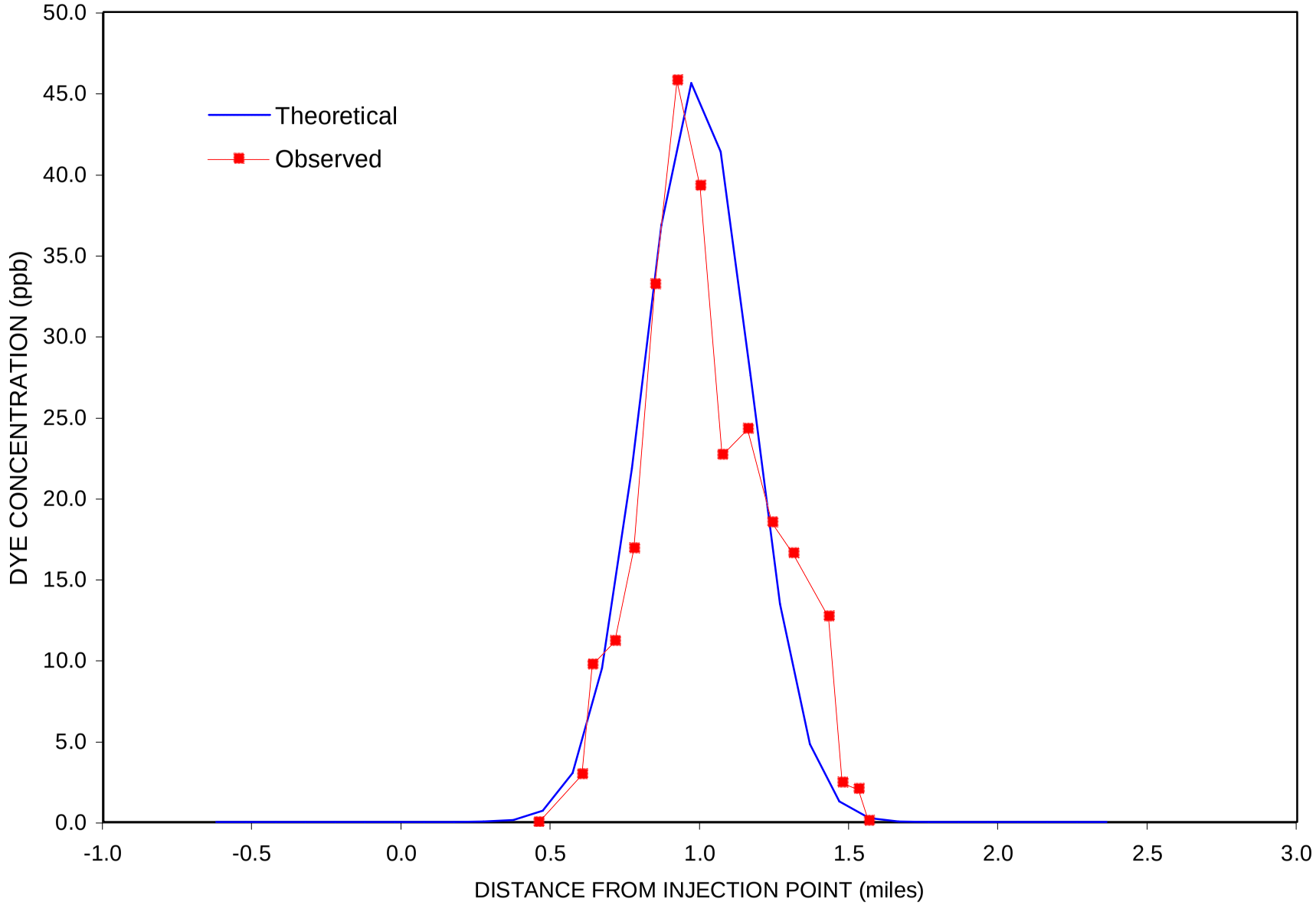


Figure C.7.4. Predicted and Observed Dye Concentrations For Bayou Cehvreuil Dye Run 2

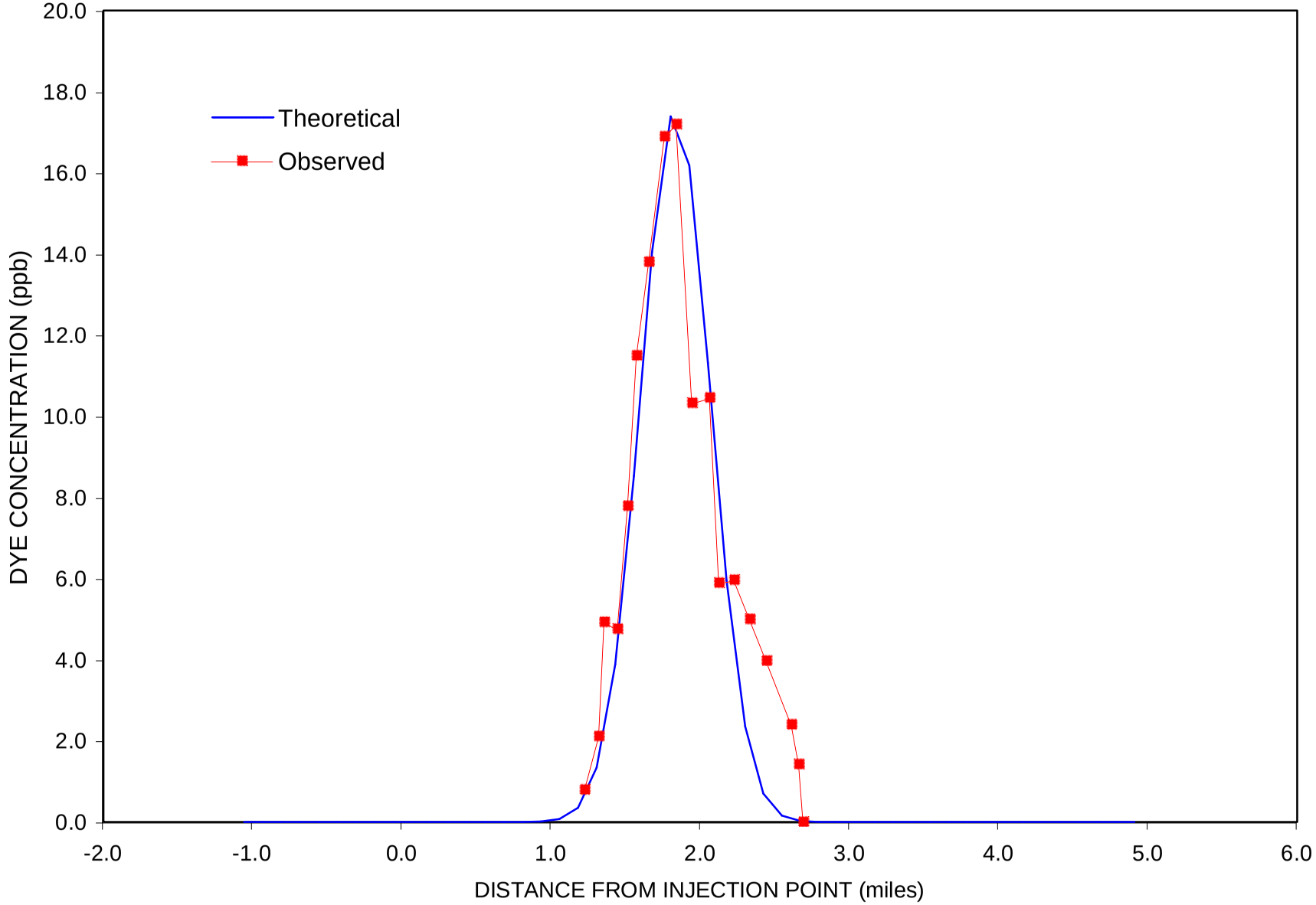
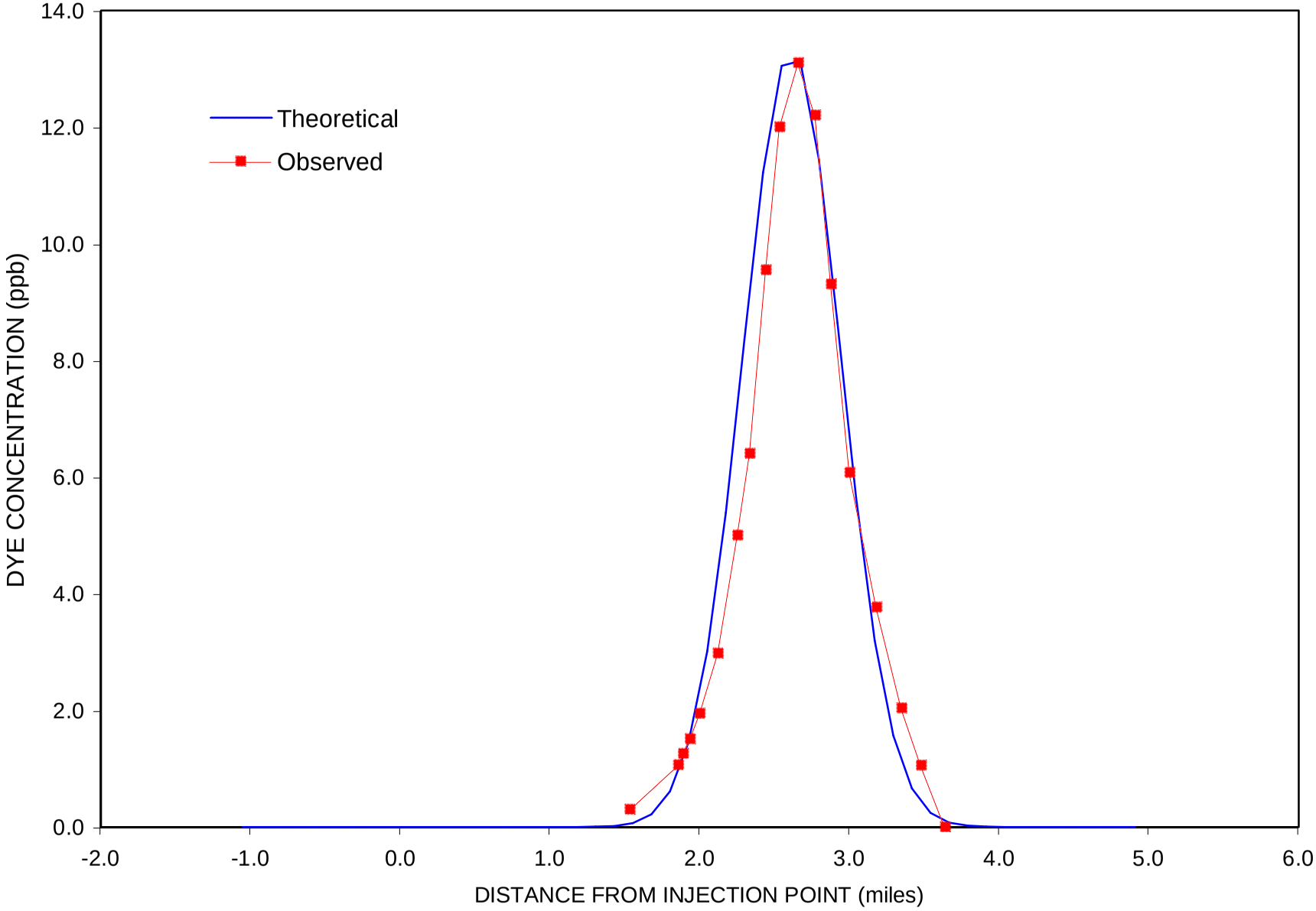


Figure C.7.5. Predicted and Observed Dye Concentrations For Bayou Cehvreuil Dye Run 3



APPENDIX D

LA-QUAL Vector Diagram

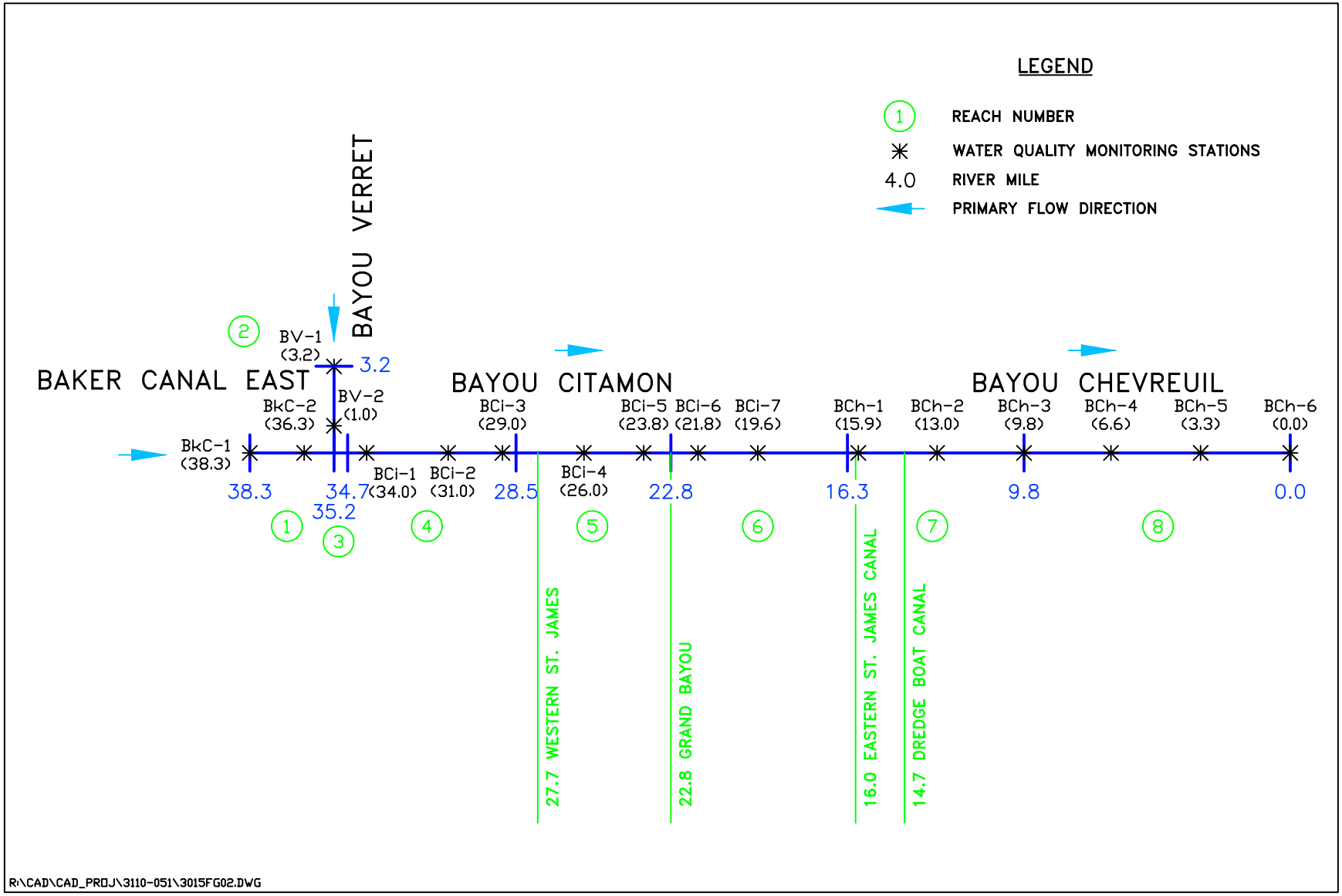


Figure D.1. LA-QUAL Vector Diagram

APPENDIX E

Model Inputs for Calibration

APPENDIX E. BAYOU CHEVREUIL SYSTEM MODEL INPUTS FOR CALIBRATION

Table E.1. Calibration Inputs for Hydraulics and Dispersion (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	27.13	Average width from cross section for BkC-1
	2	24.38	Average width from cross section for BV-1
	3	27.13	Average width from cross section for BkC-1
	4	21.94	Average width from cross section for BCi-2
	5	30.78	Average width from cross section for BCi-4
	6	25.60	Average width from cross section for BCi-7
	7	44.50	Average width from cross section for BCh-2
	8	49.07	Average width from cross section for BCh-4
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	0.94	Average depth from cross section for BkC-1
	2	0.72	Average depth from cross section for BV-1
	3	0.94	Average depth from cross section for BkC-1
	4	1.04	Average depth from cross section for BCi-2
	5	1.29	Average depth from cross section for BCi-4
	6	1.17	Average depth from cross section for BCi-7
	7	1.57	Average depth from cross section for BCh-2
	8	1.71	Average depth from cross section for BCh-4
Dispersion, m^2/sec	1-4	0.87	Based on dye studies on Bayou Citamon and Bayou Chevreuil in appendix C7.
	5	1.12	
	6	1.38	
	7	1.63	
	8	1.88	

Table E.2. Calibration Inputs for Initial Conditions (Data Type 11).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
Temperature (°C)	1	25.4	Average of in situ temperatures on sampling days at BkC-1 and BkC-2
	2	26.5	Average of in situ temperatures on sampling days at BV-1 and BV-2
	3	25.4	Average of in situ temperatures on sampling days at BkC-1 and BkC-2
	4	26.9	Average of in situ temperatures on sampling days at BCi-1, BCi-2, and BCi-3
	5	26.0	Average of in situ temperatures on sampling days at BCi-4 and BCi-5
	6	27.1	Average of in situ temperatures on sampling days at BCi-6 and BCi-7
	7	26.5	Average of in situ temperatures on sampling days at BCh-1, BCh-2, and BCh-3
	8	27.1	Average of in situ temperatures on sampling days at BCh-4 and BCh-5
Salinity (ppt)	1	0.075	Average of in situ salinity on sampling days at BkC-1 and BkC-2
	2	0.195	Average of in situ salinity on sampling days at BV-1 and BV-2
	3	0.075	Average of in situ salinity on sampling days at BkC-1 and BkC-2
	4	0.110	Average of in situ salinity on sampling days at BCi-1, BCi-2, and BCi-3
	5	0.100	Average of in situ salinity on sampling days at BCi-4 and BCi-5
	6	0.120	Average of in situ salinity on sampling days at BCi-6 and BCi-7
	7	0.120	Average of in situ salinity on sampling days at BCh-1, BCh-2, and BCh-3
	8	0.125	Average of in situ salinity on sampling days at BCh-4 and BCh-5

DO (mg/L)	1	1.50	Average DO mg/L for continuous monitoring data at BkC-1 on sampling day
	2	2.14	Average DO mg/L for continuous monitoring data at BV-1 on sampling day
	3	1.50	Average DO mg/L for continuous monitoring data at BkC-1 on sampling day
	4	2.20	Minimum DO + 1 mg/L for continuous monitoring data at BCi-2 on sampling day
	5	2.55	Average DO mg/L for continuous monitoring data at BCi-4 on sampling day
	6	2.83	Average DO mg/L for continuous monitoring data at BCi-7-1 on sampling day
	7	2.14	Average DO mg/L for continuous monitoring data at BCh-2 on sampling day
	8	2.70	Minimum DO + 1 mg/L for continuous monitoring data at BCh-4 on sampling day

Table E.3. Calibration Inputs for Kinetic Coefficients (Data Types 12 and 15).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
Reaeration option	1,3-8	3	O'Connor-Dobbins equation used because the reach depths were within the range for which this equation was developed.
	2	15	Louisiana equation was used because the depth and velocity for this reach were within the range for which this equation was developed.
CBODu decay rate	1-3	0.09/day	Decay rates calculated from 60-day time series data at station BV-1 (see Table C4.1)
	4-6	0.10/day	Averages of decay rates calculated from 60-day time series data at stations BCi-2, BCi-4, and BCi-7 (see Table C4.1)
	7-8	0.07/day	Averages of decay rates calculated from 60-day time series data at stations BCh-2 and BCh-4 (see Table C4.1)
NBODu decay rate	1-3	0.11/day	Decay rates calculated from 60-day time series data at station BV-1 (see Table C4.1)
	4-6	0.19/day	Averages of decay rates calculated from 60-day time series data at stations BCi-2, BCi-4, and BCi-7 (see Table C4.1)
	7-8	0.28/day	Averages of decay rates calculated from 60-day time series data at stations BCh-2 and BCh-4 (see Table C4.1)

Table E.4. Calibration Inputs for SOD and Nonpoint Source 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	2.75	0	0	These values were treated as calibration parameters by adjusting them to until the model output was similar to the calibration target values.
2	2.20	0	0	
3	3.00	5	0	
4	3.50	5	0	
5	1.85	5	0	
6	2.50	150	0	
7	1.70	750	0	
8	1.00	1500	0	

Table E.5. Calibration Inputs for Incremental Inflow (Data Types 16, 17, and 18).

Parameter name	Reach	Value used in model	Data Source / Comment
Flow rate (m^3/sec)	1	0.248	Based on water balance for June 4 using flow measurements for tributaries, headwaters, and main stem stations (as discussed in Section 4.2.11 with calculations shown in Appendix G).
	2	0.256	
	3	0.040	
	4	0.496	
	5	0.456	
	6,7	0.520	
	8	1.784	
Chloride	all	28.9 mg/L	Averages of values measured at tributary stations DBC-1, GB-1, SJC-1, and SJC-2.
Conductivity	all	243 µmhos	
DO	all	2.91 mg/L	
CBODu	all	11.47 mg/L	
NBODu	all	4.07 mg/L	

Table E.6. Calibration Inputs for Headwater (Data Types 20 and 21).

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Baker Canal East	Flow rate	1.00 m^3/sec	From flow balance
	Temperature	25.43°C	Observed value from BkC-1
	Salinity	0.07 ppt	Observed value from BkC-1
	Chloride	9.3 mg/L	Observed value from BkC-1
	Conductivity	172 µmhos	Observed value from BkC-1
	DO	1.50 mg/L	Daily average value for BkC-1
	CBODu	10.02 mg/L	Value calculated from 60-day BOD time series data at BkC-1
	NBODu	8.40 mg/L	
Bayou Verret	Flow rate	0.311 m^3/sec	From flow balance
	Temperature	26.6°C	Observed value from BV-1
	Salinity	0.25 ppt	Observed value from BV-1
	Chloride	64.9 mg/L	Observed value from BV-1
	Conductivity	305 µmhos	Value needed to match observed value at BV-2.
	DO	2.14 mg/L	Observed value from BV-1
	CBODu	20.97 mg/L	Value calculated from 60-day BOD time series data at BV-1
	NBODu	4.89 mg/L	

Table E.7. Calibration Inputs for Wasteloads (Data Types 24, 25 and 26).

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Western St. James Canal (SJC-1)	Flow rate	1.01 m^3/sec	From flow balance
	Temperature	25.64 ºC	Observed value from SJC-1
	Salinity	0.11 ppt	Observed value from SJC-1
	Chloride	29.1mg/L	Observed value from SJC-1
	Conductivity	230.6 µmhos	Observed value from SJC-1
	DO	3.0 mg/L	Daily average for SJC-1
	CBODu	9.36 mg/L	Value calculated from 60-day BOD time series data at SJC-1
	NBODu	2.87 mg/L	
Grand Bayou	Flow rate	-1.04 m^3/sec	From flow balance
	Temperature	0ºC	Water quality information not used by model for outflows.
	Salinity	0 ppt	
	Chloride	0 mg/L	
	Conductivity	0 µmhos	
	DO	0 mg/L	
	CBODu	0 mg/L	
	NBODu	0 mg/L	
Eastern St. James Canal (SJC-2)	Flow rate	2.55 m^3/sec	From flow balance
	Temperature	26.07 ºC	Observed value from SJC-2
	Salinity	0.13 ppt	Observed value from SJC-2
	Chloride	31.7 mg/L	Observed value from SJC-2
	Conductivity	272.6 µmhos	Observed value from SJC-2
	DO	1.3 mg/L	Daily average for SJC-2
	CBODu	11.96 mg/L	Value calculated from 60-day BOD time series data at SJC-2
	NBODu	5.63 mg/L	
Dredge Boat Canal	Flow rate	0.38 m^3/sec	From flow balance
	Temperature	26.25 ºC	Observed value from DBC-1
	Salinity	0.11 ppt	Observed value from DBC-1
	Chloride	27.0 mg/L	Observed value from DBC-1
	Conductivity	230.9 µmhos	Observed value from DBC-1
	DO	2.0 mg/L	Daily average for DBC-1
	CBODu	10.13 mg/L	Value calculated from 60-day BOD time series data at DBC-1
	NBODu	4.22 mg/L	

Table E.8. Calibration Inputs for Lower Boundary Conditions (Data Type 27).

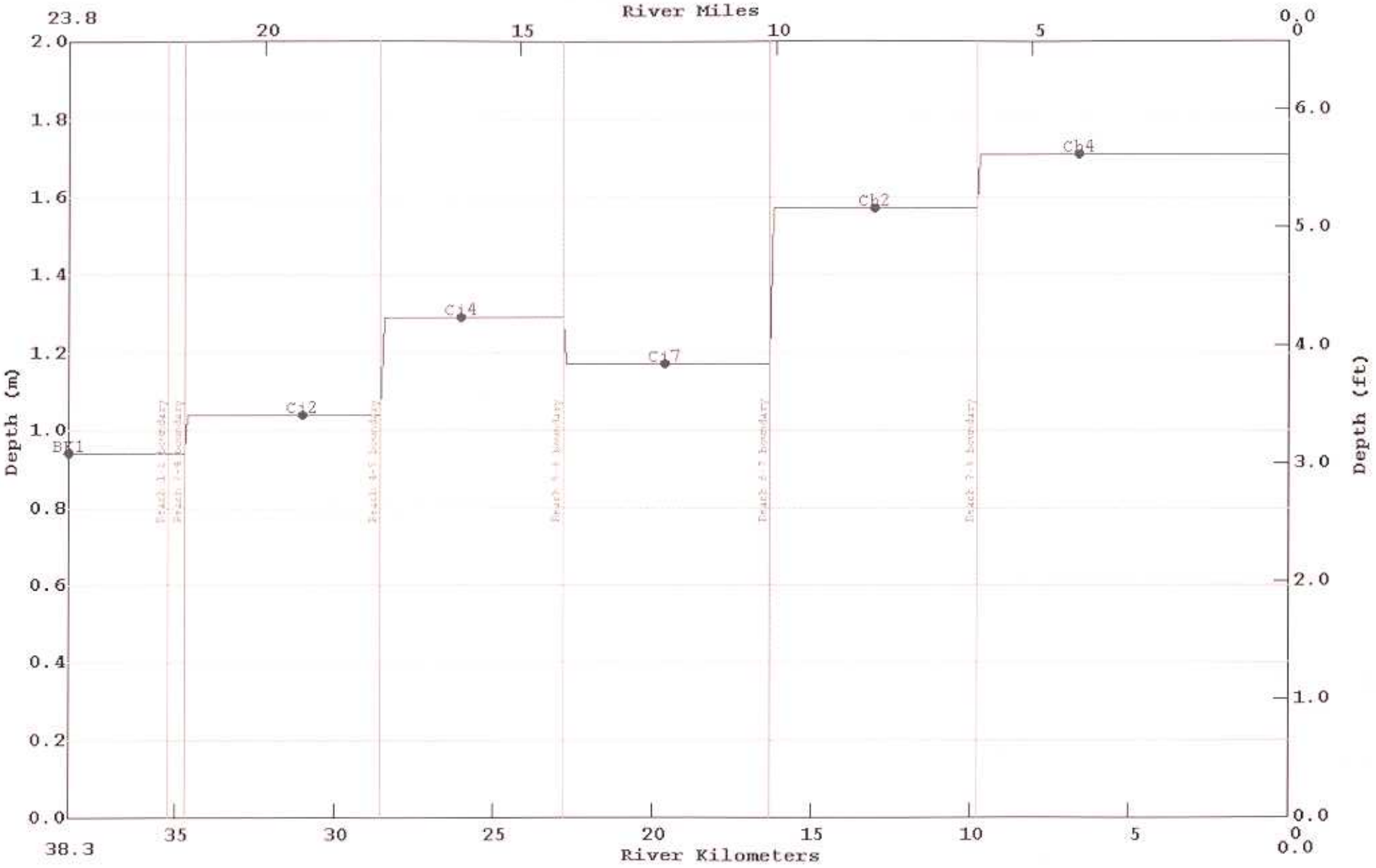
Parameter	**Value used in model**	**Data Source / Comment**
Temperature	28.0°C	Based on average of temperatures measured at continuous monitor at LDA-1 on sampling day
Salinity	0.10 ppt	Based on average of salinities measured at continuous monitor at LDA-1 on sampling day
Chloride	53.3 mg/L	Value from sample collected at LDA-1.
Conductivity	236.7 µmhos	Based on average of conductivities measured at continuous monitor at LDA-1 on sampling day
DO	6.80 mg/L	Based on average of DO measured at continuous monitor at LDA-1 on sampling day
CBODu	14.3 mg/L	Calculated from BOD time series samples for LDA-1
Chlorophyll a	0.0 µg/L	Same as initial conditions (see Section 4.2.7)
NBODu	4.31 mg/L	Calculated from BOD time series samples for LDA-1

R:\projects\3110-051\chevreuil pdf\Inputs_Calib.doc

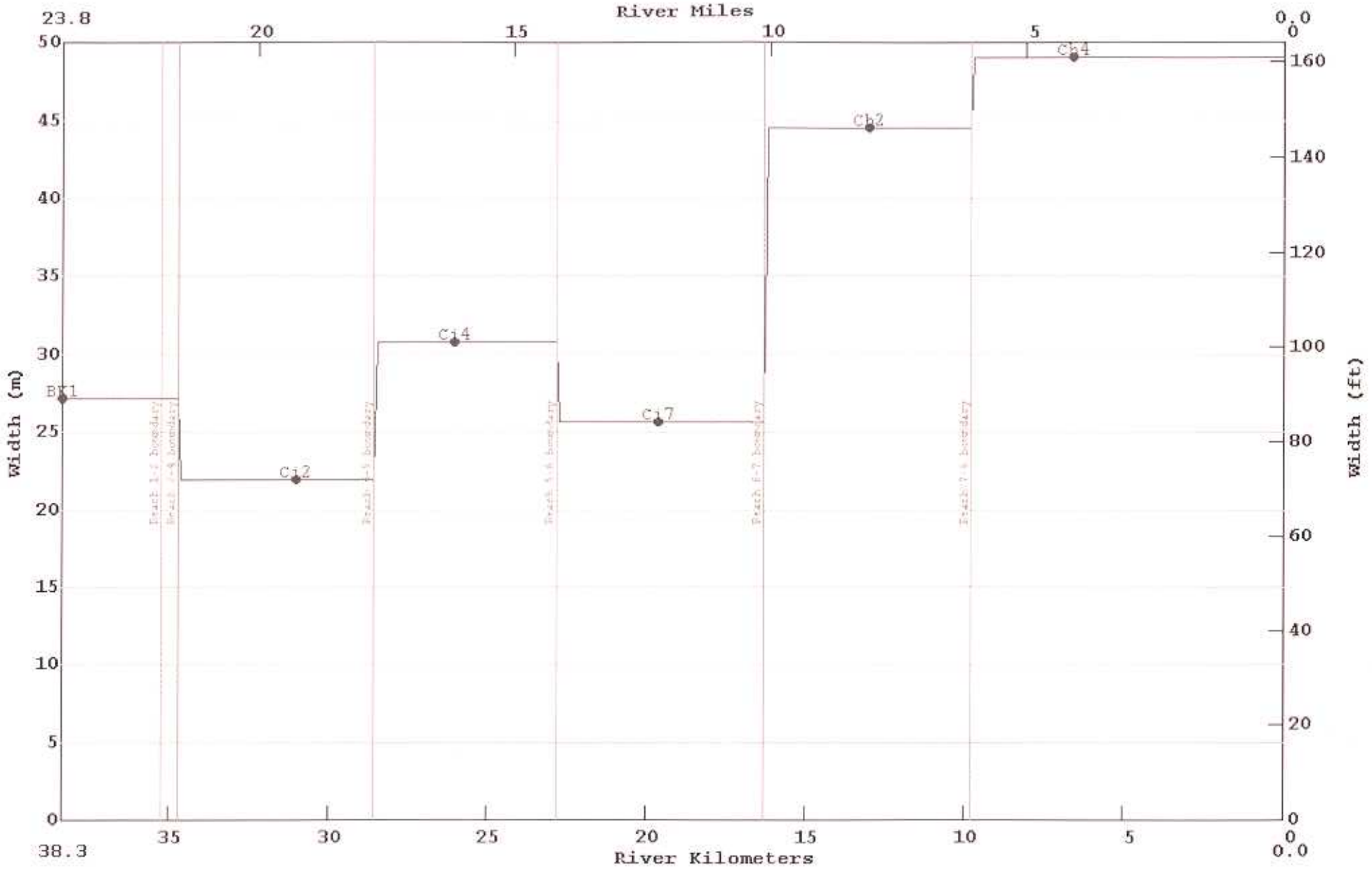
APPENDIX F

Modeled and Observed Depths and Widths

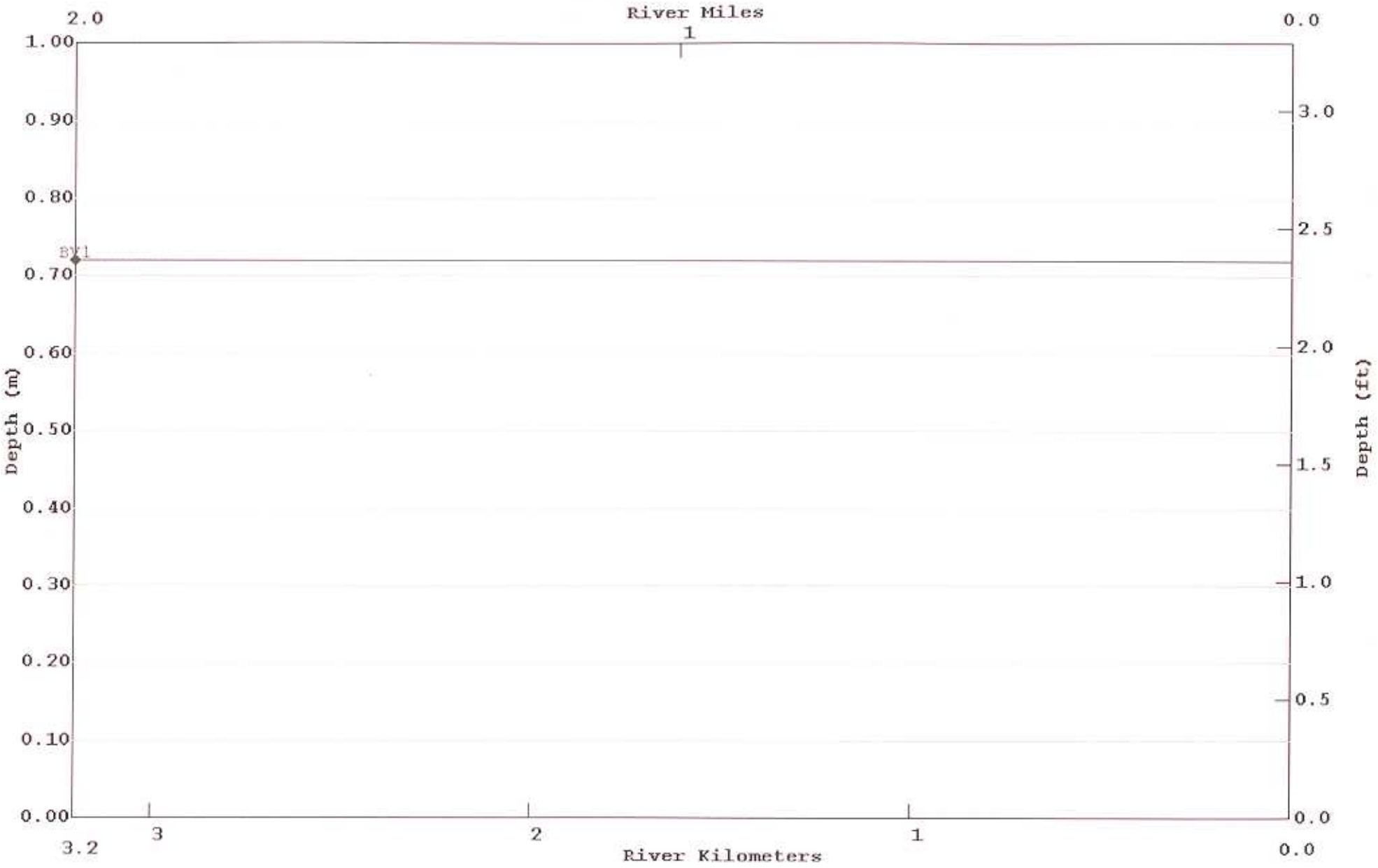
LA-QUAL Version 6.02 Run at 14:11 on 02/13/2004 File R:\projects\3110-051\la-qual\chevreuil\calib\chev_cal6.txt
FINAL CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM min= 0.94 max= 1.71
Main Stem



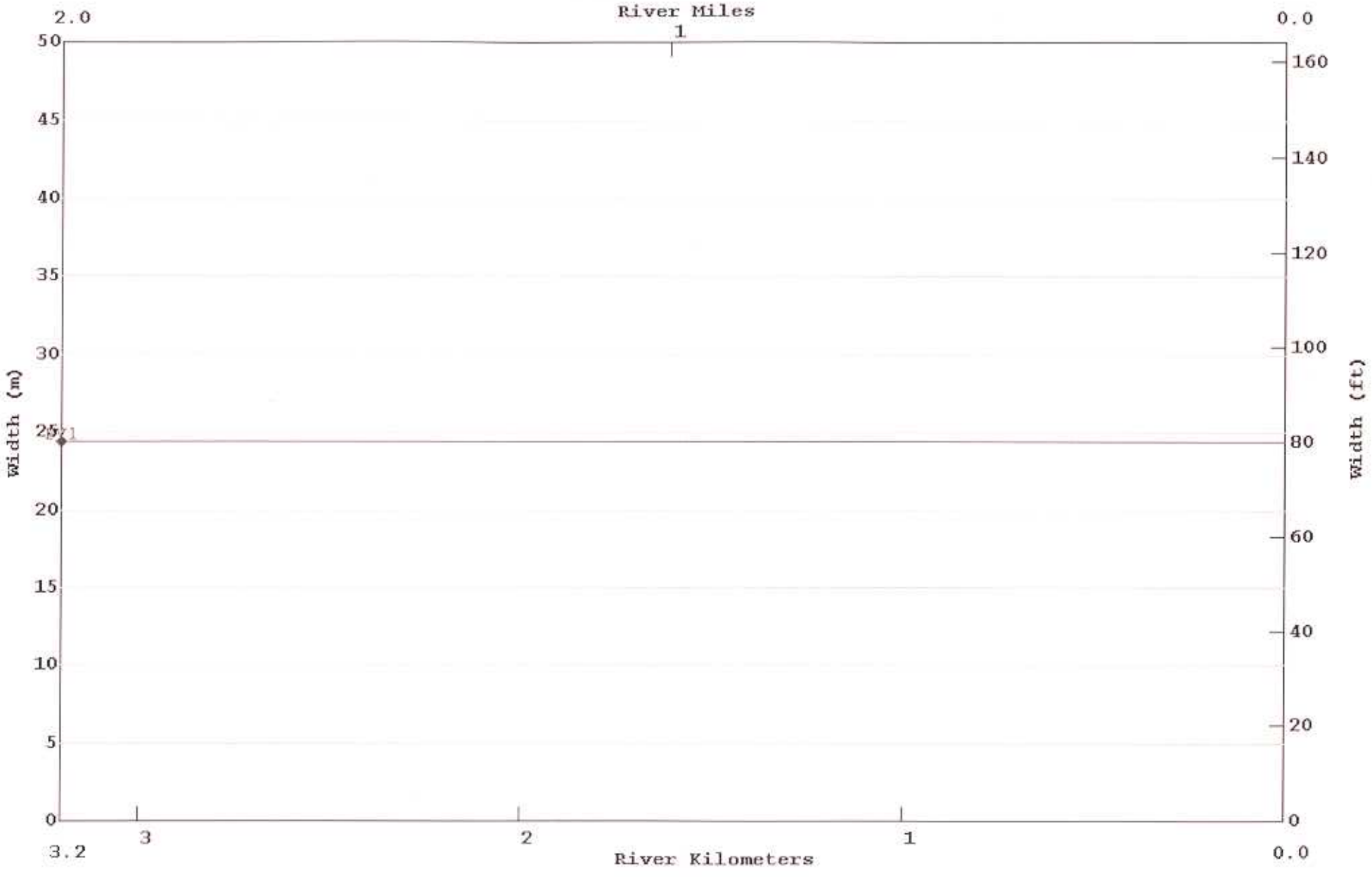
LA-QUAL Version 6.02 Run at 14:11 on 02/13/2004 File R:\projects\3110-051\la-qual\chevreuil\calib\chev_cal6.txt
FINAL CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM min= 21.94 max= 49.07
Main Stem



LA-QUAL Version 6.02 Run at 14:11 on 02/13/2004 File R:\projects\3110-051\la-qual\chevreuil\calib\chev_cal6.txt
FINAL CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM min= 0.72 max= 0.72
Bayou Verret



LA-QUAL Version 6.02 Run at 14:11 on 02/13/2004 File R:\projects\3110-051\la-qual\chevreuil\calib\chev_cal6.txt
FINAL CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM min= 24.38 max= 24.38
Bayou Verret



APPENDIX G

Flow Calculations

BAYOU CHEVREUIL (SUBSEGMENT 020101) FLOW BALANCE

1. Determine headwater inflows:

Bayou Verret headwater flow = 11 cfs (drogue measurement at BV-1 on June 4)

For Baker Canal East, use mass balance on conductivity at the intersection of Baker Canal East, Bayou Verret, and Bayou Citamon (using data from BkC-2, BV-2, BCi-1):

(Qk * Ck) + (Qv + Cv) = (Qk+Qv) * Ci

where:	Qk = flow in Baker Canal East (to be solved for)		
	Qv = flow in Bayou Verret =	11	cfs
	Ck = conduc. in Baker Canal East at BkC-2 =	180	umhos
	Cv = conductivity in Bayou Verret at BV-2 =	280	umhos
	Ci = conductivity in Bayou Citamon at BCi-1 =	204	umhos

Rearranging terms: Qk = Qv * (Ci - Cv) / (Ck - Ci) = 35 cfs

2. Determine tributary/distributary inflows and outflows:

Saint James Western	36	cfs	(manual flow measurement at SJC-1 on June 4)
Grand Bayou (outflow)	-37	cfs	(manual flow measurement at GB-1 on June 4)
Saint James Eastern	90	cfs	(from drogue measurement at SJC-2 on June 4)
Dredge Boat Canal	14	cfs	(from drogue measurement at DBC-1 on June 4)

3. Determine total flow needed near the downstream end of the system:

The two flow measurements closest to the downstream end are:

Acoustic Doppler flow at BCh-3 on June 4 =	295	cfs
Drogue measurement at BCh-4 on June 4 =	189	cfs
Average =	242	cfs

4. Calculate incremental inflow needed for modeled flow to equal "observed" flow at downstream end:

Incremental inflow needed = downstream flow minus headwater and tributary inflows

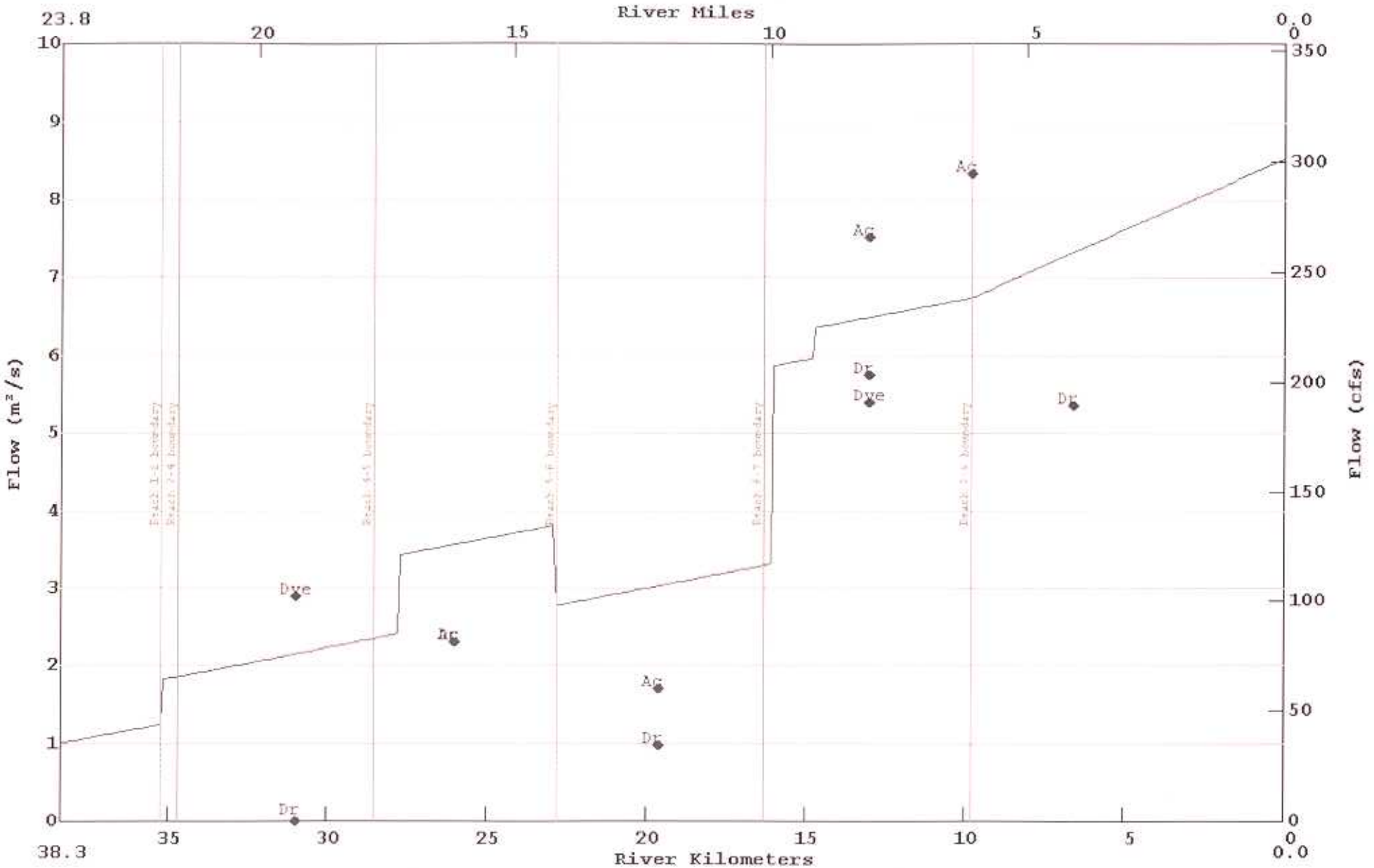
Downstream flow:	242	cfs	
minus	11	cfs	Bayou Verret
minus	35	cfs	Baker Canal East
minus	36	cfs	Saint James Western
minus	-37	cfs	Grand Bayou (outflow)
minus	90	cfs	Saint James Eastern
minus	14	cfs	Dredge Boat Canal
equals	93	cfs	<-- incremental inflow needed

Total length of stream reaches = 33 km

Incremental inflow per km = 2.82 cfs / km = 0.080 m3/sec per km

Reach no.	Begin km	End km	Length (km)	Increm. inflow (m3/sec)
1	38.3	35.2	3.1	0.248
2	3.2	0.0	3.2	0.256
3	35.2	34.7	0.5	0.040
4	34.7	28.5	6.2	0.496
5	28.5	22.8	5.7	0.456
6	22.8	16.3	6.5	0.520
7	16.3	9.8	6.5	0.520
8	9.8	0.0	9.8	0.784

LA-QUAL Version 6.02 Run at 14:11 on 02/13/2004 File R:\projects\3110-051\la-qual\chevreuil\calib\chev_cal6.txt
FINAL CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM min= 1.00 max= 8.53
Main Stem Flows on 6/4/03



APPENDIX H1

Daily Minimum DO Values

Table H1.1.Continuous Data Used for BkC-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
6/4/03	0:00:00	1.80	3.60					
6/4/03	0:15:00	1.70	3.40					
6/4/03	0:30:00	1.90	3.80					
6/4/03	0:45:00	1.60	3.20					
6/4/03	1:00:00	1.80	3.60					
6/4/03	1:15:00	1.80	3.60					
6/4/03	1:30:00	1.60	3.20					
6/4/03	1:45:00	1.40	2.80					
6/4/03	2:00:00	1.60	3.20					
6/4/03	2:15:00	1.60	3.20					
6/4/03	2:30:00	1.60	3.20					
6/4/03	2:45:00	1.50	3.00					
6/4/03	3:00:00	1.50	3.00					
6/4/03	3:15:00	1.50	3.00					
6/4/03	3:30:00	1.50	3.00					
6/4/03	3:45:00	1.40	2.80					
6/4/03	4:00:00	1.20	2.40					
6/4/03	4:15:00	1.20	2.40					
6/4/03	4:30:00	1.10	2.20					
6/4/03	4:45:00	0.90	1.80					
6/4/03	5:00:00	1.10	2.20					
6/4/03	5:15:00	1.10	2.20					
6/4/03	5:30:00	0.90	1.80					
6/4/03	5:45:00	0.90	1.80					
6/4/03	6:00:00	0.80	1.60					
6/4/03	6:15:00	0.80	1.60					
6/4/03	6:30:00	0.70	1.40					
6/4/03	6:45:00	0.80	1.60					
6/4/03	7:00:00	0.70	1.40					
6/4/03	7:15:00	0.70	1.40					
6/4/03	7:30:00	0.60	1.20					
6/4/03	7:45:00	0.50	1.00					
6/4/03	8:00:00	0.70	1.40					
6/4/03	8:15:00	2.20	4.40					
6/4/03	8:30:00	1.90	3.80					
6/4/03	8:45:00	1.10	2.20					
6/4/03	9:00:00	1.60	3.20					
6/4/03	9:15:00	1.70	3.40					
6/4/03	9:30:00	2.00	4.00					
6/4/03	9:45:00	1.90	3.80	BkC-2	6/4/03	948	1.2	0.32
6/4/03	10:00:00	2.00	4.00					

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
6/4/03	10:15:00	1.90	3.80					
6/4/03	10:30:00	1.80	3.60					
6/4/03	10:45:00	1.80	3.60					
6/4/03	11:00:00	1.60	3.20					
6/4/03	11:15:00	2.10	4.20					
6/4/03	11:30:00	2.00	4.00					
6/4/03	11:45:00	2.10	4.20					
6/4/03	12:00:00	1.40	2.80					
6/4/03	12:15:00	1.60	3.20					
6/4/03	12:30:00	1.60	3.20					
6/4/03	12:45:00	1.50	3.00					
6/4/03	13:00:00	1.60	3.20					
6/4/03	13:15:00	1.60	3.20					
6/4/03	13:30:00	1.40	2.80					
6/4/03	13:45:00	2.30	4.60					
6/4/03	14:00:00	1.90	3.80					
6/4/03	14:15:00	1.60	3.20					
6/4/03	14:30:00	1.60	3.20					
6/4/03	14:45:00	1.60	3.20					
6/4/03	15:00:00	1.70	3.40					
6/4/03	15:15:00	2.00	4.00					
6/4/03	15:30:00	2.00	4.00					
6/4/03	15:45:00	1.90	3.80					
6/4/03	16:00:00	1.70	3.40					
6/4/03	16:15:00	1.50	3.00					
6/4/03	16:30:00	1.50	3.00					
6/4/03	16:45:00	1.20	2.40					
6/4/03	17:00:00	1.40	2.80					
6/4/03	17:15:00	1.20	2.40					
6/4/03	17:30:00	1.60	3.20					
6/4/03	17:45:00	1.50	3.00					
6/4/03	18:00:00	1.60	3.20					
6/4/03	18:15:00	1.50	3.00					
6/4/03	18:30:00	1.60	3.20					
6/4/03	18:45:00	1.80	3.60					
6/4/03	19:00:00	1.70	3.40					
6/4/03	19:15:00	1.60	3.20					
6/4/03	19:30:00	2.00	4.00					
6/4/03	19:45:00	1.80	3.60					
6/4/03	20:00:00	1.70	3.40					
6/4/03	20:15:00	1.40	2.80					
6/4/03	20:30:00	1.50	3.00					
6/4/03	20:45:00	1.40	2.80					

Table H1.1.
Survey Station BkC-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
6/4/03	21:00:00	1.80	3.60					
6/4/03	21:15:00	1.60	3.20					
6/4/03	21:30:00	2.00	4.00					
6/4/03	21:45:00	2.00	4.00					
6/4/03	22:00:00	1.20	2.40					
6/4/03	22:15:00	1.40	2.80					
6/4/03	22:30:00	1.80	3.60					
6/4/03	22:45:00	1.20	2.40					
6/4/03	23:00:00	1.50	3.00					
6/4/03	23:15:00	0.90	1.80					
6/4/03	23:30:00	1.00	2.00					
6/4/03	23:45:00	0.80	1.60					
6/5/03	0:00:00	1.50	3.00					
	MIN =	0.50						

:VREUIL PDF\DO MIN CALCULATIONS-CHEVL.XLS

Table H1.1.
Survey Station BkC-1

Table H1.2.Continuous Data Used for BV-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
6/4/03	0:00:00	3.00	2.50					
6/4/03	0:15:00	3.00	2.50					
6/4/03	0:30:00	2.90	2.42					
6/4/03	0:45:00	2.90	2.42					
6/4/03	1:00:00	2.90	2.42					
6/4/03	1:15:00	2.90	2.42					
6/4/03	1:30:00	2.80	2.33					
6/4/03	1:45:00	2.80	2.33					
6/4/03	2:00:00	2.80	2.33					
6/4/03	2:15:00	2.70	2.25					
6/4/03	2:30:00	2.70	2.25					
6/4/03	2:45:00	2.60	2.17					
6/4/03	3:00:00	2.60	2.17					
6/4/03	3:15:00	2.50	2.08					
6/4/03	3:30:00	2.50	2.08					
6/4/03	3:45:00	2.40	2.00					
6/4/03	4:00:00	2.40	2.00					
6/4/03	4:15:00	2.30	1.92					
6/4/03	4:30:00	2.20	1.83					
6/4/03	4:45:00	2.10	1.75					
6/4/03	5:00:00	2.10	1.75					
6/4/03	5:15:00	2.00	1.67					
6/4/03	5:30:00	1.90	1.58					
6/4/03	5:45:00	1.80	1.50					
6/4/03	6:00:00	1.80	1.50					
6/4/03	6:15:00	1.70	1.42					
6/4/03	6:30:00	1.70	1.42					
6/4/03	6:45:00	1.60	1.33					
6/4/03	7:00:00	1.50	1.25					
6/4/03	7:15:00	1.50	1.25					
6/4/03	7:30:00	1.40	1.17					
6/4/03	7:45:00	1.40	1.17					
6/4/03	8:00:00	1.30	1.08					
6/4/03	8:15:00	1.30	1.08					
6/4/03	8:30:00	1.30	1.08					
6/4/03	8:45:00	1.30	1.08					
6/4/03	9:00:00	1.30	1.08					
6/4/03	9:15:00	1.30	1.08					
6/4/03	9:30:00	1.30	1.08					
6/4/03	9:45:00	1.40	1.17					
6/4/03	10:00:00	1.40	1.17	BV-2	6/4/03	1005	2.12	1.82

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
6/4/03	10:15:00	1.50	1.25					
6/4/03	10:30:00	1.40	1.17					
6/4/03	10:45:00	1.60	1.33					
6/4/03	11:00:00	1.50	1.25					
6/4/03	11:15:00	1.50	1.25					
6/4/03	11:30:00	1.60	1.33					
6/4/03	11:45:00	1.20	1.00					
6/4/03	12:00:00	1.60	1.33					
6/4/03	12:15:00	1.70	1.42					
6/4/03	12:30:00	1.50	1.25					
6/4/03	12:45:00	1.90	1.58					
6/4/03	13:00:00	2.00	1.67					
6/4/03	13:15:00	1.40	1.17					
6/4/03	13:30:00	2.70	2.25					
6/4/03	13:45:00	2.00	1.67					
6/4/03	14:00:00	1.60	1.33					
6/4/03	14:15:00	1.60	1.33					
6/4/03	14:30:00	1.70	1.42					
6/4/03	14:45:00	2.00	1.67					
6/4/03	15:00:00	1.80	1.50					
6/4/03	15:15:00	2.20	1.83					
6/4/03	15:30:00	2.10	1.75					
6/4/03	15:45:00	2.20	1.83					
6/4/03	16:00:00	2.10	1.75					
6/4/03	16:15:00	2.40	2.00					
6/4/03	16:30:00	2.70	2.25					
6/4/03	16:45:00	2.90	2.42					
6/4/03	17:00:00	2.80	2.33					
6/4/03	17:15:00	2.50	2.08					
6/4/03	17:30:00	3.00	2.50					
6/4/03	17:45:00	2.70	2.25					
6/4/03	18:00:00	2.60	2.17					
6/4/03	18:15:00	2.80	2.33					
6/4/03	18:30:00	2.80	2.33					
6/4/03	18:45:00	2.70	2.25					
6/4/03	19:00:00	2.60	2.17					
6/4/03	19:15:00	2.50	2.08					
6/4/03	19:30:00	2.30	1.92					
6/4/03	19:45:00	2.70	2.25					
6/4/03	20:00:00	2.50	2.08					
6/4/03	20:15:00	2.40	2.00					
6/4/03	20:30:00	2.40	2.00					
6/4/03	20:45:00	2.40	2.00					

Table H1.2.
Survey Station BV-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
6/4/03	21:00:00	2.40	2.00					
6/4/03	21:15:00	2.50	2.08					
6/4/03	21:30:00	2.40	2.00					
6/4/03	21:45:00	2.40	2.00					
6/4/03	22:00:00	2.40	2.00					
6/4/03	22:15:00	2.30	1.92					
6/4/03	22:30:00	2.40	2.00					
6/4/03	22:45:00	2.30	1.92					
6/4/03	23:00:00	2.40	2.00					
6/4/03	23:15:00	2.30	1.92					
6/4/03	23:30:00	2.20	1.83					
6/4/03	23:45:00	2.30	1.92					
6/5/03	0:00:00	2.20	1.83					
	MIN =	1.20						

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Table H1.2.
Survey Station BV-1

Table H1.3.Continuous Data Used for BCi-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
6/4/03	0:00:00	2.60	2.17					
6/4/03	0:15:00	2.60	2.17					
6/4/03	0:30:00	2.40	2.00					
6/4/03	0:45:00	2.50	2.08					
6/4/03	1:00:00	2.40	2.00					
6/4/03	1:15:00	2.50	2.08					
6/4/03	1:30:00	2.40	2.00					
6/4/03	1:45:00	2.40	2.00					
6/4/03	2:00:00	2.40	2.00					
6/4/03	2:15:00	2.20	1.83					
6/4/03	2:30:00	2.10	1.75					
6/4/03	2:45:00	2.10	1.75					
6/4/03	3:00:00	2.30	1.92					
6/4/03	3:15:00	2.30	1.92					
6/4/03	3:30:00	2.00	1.67					
6/4/03	3:45:00	2.00	1.67					
6/4/03	4:00:00	2.10	1.75					
6/4/03	4:15:00	2.40	2.00					
6/4/03	4:30:00	1.90	1.58					
6/4/03	4:45:00	2.00	1.67					
6/4/03	5:00:00	2.10	1.75					
6/4/03	5:15:00	1.90	1.58					
6/4/03	5:30:00	2.00	1.67					
6/4/03	5:45:00	1.90	1.58					
6/4/03	6:00:00	1.70	1.42					
6/4/03	6:15:00	1.80	1.50					
6/4/03	6:30:00	1.80	1.50					
6/4/03	6:45:00	1.80	1.50					
6/4/03	7:00:00	1.80	1.50					
6/4/03	7:15:00	1.90	1.58					
6/4/03	7:30:00	1.80	1.50					
6/4/03	7:45:00	1.60	1.33					
6/4/03	8:00:00	1.60	1.33					
6/4/03	8:15:00	1.60	1.33					
6/4/03	8:30:00	1.70	1.42					
6/4/03	8:45:00	1.50	1.25					
6/4/03	9:00:00	1.40	1.17					
6/4/03	9:15:00	1.40	1.17					
6/4/03	9:30:00	1.60	1.33					
6/4/03	9:45:00	1.20	1.00					
6/4/03	10:00:00	1.20	1.00					

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
6/4/03	10:15:00	1.40	1.17					
6/4/03	10:30:00	1.50	1.25					
6/4/03	10:45:00	1.30	1.08					
6/4/03	11:00:00	1.20	1.00	BCi-1	6/4/03	1110	1.1	1.10
6/4/03	11:15:00	1.20	1.00					
6/4/03	11:30:00	1.50	1.25					
6/4/03	11:45:00	2.10	1.75	BCi-3	6/4/03	1140	2.88	1.65
6/4/03	12:00:00	1.60	1.33					
6/4/03	12:15:00	1.80	1.50					
6/4/03	12:30:00	1.90	1.58					
6/4/03	12:45:00	2.20	1.83					
6/4/03	13:00:00	2.20	1.83					
6/4/03	13:15:00	2.10	1.75					
6/4/03	13:30:00	2.00	1.67					
6/4/03	13:45:00	2.00	1.67					
6/4/03	14:00:00	2.20	1.83					
6/4/03	14:15:00	2.40	2.00					
6/4/03	14:30:00	2.80	2.33					
6/4/03	14:45:00	3.00	2.50					
6/4/03	15:00:00	3.10	2.58					
6/4/03	15:15:00	2.90	2.42					
6/4/03	15:30:00	3.20	2.67					
6/4/03	15:45:00	3.20	2.67					
6/4/03	16:00:00	3.30	2.75					
6/4/03	16:15:00	3.60	3.00					
6/4/03	16:30:00	3.50	2.92					
6/4/03	16:45:00	3.60	3.00					
6/4/03	17:00:00	3.60	3.00					
6/4/03	17:15:00	3.50	2.92					
6/4/03	17:30:00	3.30	2.75					
6/4/03	17:45:00	3.30	2.75					
6/4/03	18:00:00	3.20	2.67					
6/4/03	18:15:00	3.20	2.67					
6/4/03	18:30:00	3.20	2.67					
6/4/03	18:45:00	3.70	3.08					
6/4/03	19:00:00	4.40	3.67					
6/4/03	19:15:00	4.80	4.00					
6/4/03	19:30:00	4.50	3.75					
6/4/03	19:45:00	5.20	4.33					
6/4/03	20:00:00	3.90	3.25					
6/4/03	20:15:00	4.10	3.42					
6/4/03	20:30:00	4.30	3.58					
6/4/03	20:45:00	4.10	3.42					

Table H1.3.
Survey Station BCi-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
6/4/03	21:00:00	3.80	3.17					
6/4/03	21:15:00	3.80	3.17					
6/4/03	21:30:00	3.80	3.17					
6/4/03	21:45:00	3.80	3.17					
6/4/03	22:00:00	3.70	3.08					
6/4/03	22:15:00	3.70	3.08					
6/4/03	22:30:00	3.60	3.00					
6/4/03	22:45:00	3.50	2.92					
6/4/03	23:00:00	3.50	2.92					
6/4/03	23:15:00	3.50	2.92					
6/4/03	23:30:00	3.40	2.83					
6/4/03	23:45:00	3.30	2.75					
6/5/03	0:00:00	3.30	2.75					
	MIN =	1.20						

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Table H1.3.
Survey Station BCi-2

Table H1.4.Continuous Data Used for BCi-4

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
6/4/03	0:00:00	3.20	1.78					
6/4/03	0:15:00	3.10	1.72					
6/4/03	0:30:00	3.10	1.72					
6/4/03	0:45:00	3.00	1.67					
6/4/03	1:00:00	3.00	1.67					
6/4/03	1:15:00	2.90	1.61					
6/4/03	1:30:00	2.90	1.61					
6/4/03	1:45:00	2.80	1.56					
6/4/03	2:00:00	2.80	1.56					
6/4/03	2:15:00	2.80	1.56					
6/4/03	2:30:00	2.60	1.44					
6/4/03	2:45:00	2.60	1.44					
6/4/03	3:00:00	2.60	1.44					
6/4/03	3:15:00	2.50	1.39					
6/4/03	3:30:00	2.40	1.33					
6/4/03	3:45:00	2.40	1.33					
6/4/03	4:00:00	2.30	1.28					
6/4/03	4:15:00	2.30	1.28					
6/4/03	4:30:00	2.20	1.22					
6/4/03	4:45:00	2.20	1.22					
6/4/03	5:00:00	2.10	1.17					
6/4/03	5:15:00	2.10	1.17					
6/4/03	5:30:00	2.10	1.17					
6/4/03	5:45:00	2.00	1.11					
6/4/03	6:00:00	2.00	1.11					
6/4/03	6:15:00	2.00	1.11					
6/4/03	6:30:00	2.00	1.11					
6/4/03	6:45:00	2.00	1.11					
6/4/03	7:00:00	1.90	1.06					
6/4/03	7:15:00	1.90	1.06					
6/4/03	7:30:00	1.90	1.06					
6/4/03	7:45:00	1.80	1.00					
6/4/03	8:00:00	1.80	1.00					
6/4/03	8:15:00	1.90	1.06					
6/4/03	8:30:00	1.80	1.00					
6/4/03	8:45:00	1.90	1.06					
6/4/03	9:00:00	1.80	1.00					
6/4/03	9:15:00	1.90	1.06					
6/4/03	9:30:00	2.10	1.17					
6/4/03	9:45:00	2.00	1.11					
6/4/03	10:00:00	2.00	1.11					

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
6/4/03	10:15:00	2.00	1.11					
6/4/03	10:30:00	2.00	1.11					
6/4/03	10:45:00	2.00	1.11					
6/4/03	11:00:00	1.90	1.06					
6/4/03	11:15:00	2.00	1.11					
6/4/03	11:30:00	1.80	1.00					
6/4/03	11:45:00	1.90	1.06					
6/4/03	12:00:00	1.80	1.00					
6/4/03	12:15:00	2.00	1.11					
6/4/03	12:30:00	2.00	1.11					
6/4/03	12:45:00	1.90	1.06					
6/4/03	13:00:00	1.80	1.00					
6/4/03	13:15:00	1.90	1.06	BCi-5	6/4/03	1310	2.87	2.72
6/4/03	13:30:00	2.20	1.22					
6/4/03	13:45:00	2.10	1.17					
6/4/03	14:00:00	2.00	1.11					
6/4/03	14:15:00	2.00	1.11					
6/4/03	14:30:00	2.10	1.17					
6/4/03	14:45:00	2.10	1.17					
6/4/03	15:00:00	2.90	1.61					
6/4/03	15:15:00	2.60	1.44					
6/4/03	15:30:00	2.40	1.33					
6/4/03	15:45:00	2.40	1.33					
6/4/03	16:00:00	2.90	1.61					
6/4/03	16:15:00	3.20	1.78					
6/4/03	16:30:00	3.50	1.94					
6/4/03	16:45:00	3.10	1.72					
6/4/03	17:00:00	3.30	1.83					
6/4/03	17:15:00	3.40	1.89					
6/4/03	17:30:00	3.50	1.94					
6/4/03	17:45:00	3.70	2.06					
6/4/03	18:00:00	3.70	2.06					
6/4/03	18:15:00	3.20	1.78					
6/4/03	18:30:00	3.20	1.78					
6/4/03	18:45:00	3.20	1.78					
6/4/03	19:00:00	3.40	1.89					
6/4/03	19:15:00	3.20	1.78					
6/4/03	19:30:00	3.30	1.83					
6/4/03	19:45:00	3.30	1.83					
6/4/03	20:00:00	3.20	1.78					
6/4/03	20:15:00	3.20	1.78					
6/4/03	20:30:00	3.30	1.83					
6/4/03	20:45:00	3.30	1.83					

Table H1.4.
Survey Station BCi-4

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
6/4/03	21:00:00	3.20	1.78					
6/4/03	21:15:00	3.10	1.72					
6/4/03	21:30:00	3.10	1.72					
6/4/03	21:45:00	3.10	1.72					
6/4/03	22:00:00	3.00	1.67					
6/4/03	22:15:00	3.00	1.67					
6/4/03	22:30:00	3.00	1.67					
6/4/03	22:45:00	2.90	1.61					
6/4/03	23:00:00	2.90	1.61					
6/4/03	23:15:00	2.90	1.61					
6/4/03	23:30:00	2.90	1.61					
6/4/03	23:45:00	2.90	1.61					
6/5/03	0:00:00	2.90	1.61					
	MIN =	1.80						

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Table H1.4.
Survey Station BCi-4

Table H1.5.Continuous Data Used for BCi-7

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
6/4/03	0:00:00	3.20	1.68					
6/4/03	0:15:00	3.20	1.68					
6/4/03	0:30:00	3.20	1.68					
6/4/03	0:45:00	3.10	1.63					
6/4/03	1:00:00	3.10	1.63					
6/4/03	1:15:00	3.00	1.58					
6/4/03	1:30:00	3.00	1.58					
6/4/03	1:45:00	3.00	1.58					
6/4/03	2:00:00	2.90	1.53					
6/4/03	2:15:00	2.90	1.53					
6/4/03	2:30:00	2.90	1.53					
6/4/03	2:45:00	2.90	1.53					
6/4/03	3:00:00	2.80	1.47					
6/4/03	3:15:00	2.80	1.47					
6/4/03	3:30:00	2.80	1.47					
6/4/03	3:45:00	2.80	1.47					
6/4/03	4:00:00	2.80	1.47					
6/4/03	4:15:00	2.70	1.42					
6/4/03	4:30:00	2.70	1.42					
6/4/03	4:45:00	2.70	1.42					
6/4/03	5:00:00	2.70	1.42					
6/4/03	5:15:00	2.60	1.37					
6/4/03	5:30:00	2.70	1.42					
6/4/03	5:45:00	2.60	1.37					
6/4/03	6:00:00	2.50	1.32					
6/4/03	6:15:00	2.60	1.37					
6/4/03	6:30:00	2.50	1.32					
6/4/03	6:45:00	2.50	1.32					
6/4/03	7:00:00	2.50	1.32					
6/4/03	7:15:00	2.40	1.26					
6/4/03	7:30:00	2.30	1.21					
6/4/03	7:45:00	2.40	1.26					
6/4/03	8:00:00	2.30	1.21					
6/4/03	8:15:00	2.30	1.21					
6/4/03	8:30:00	2.30	1.21					
6/4/03	8:45:00	2.30	1.21					
6/4/03	9:00:00	2.20	1.16					
6/4/03	9:15:00	2.20	1.16					
6/4/03	9:30:00	2.20	1.16					
6/4/03	9:45:00	2.20	1.16					
6/4/03	10:00:00	2.00	1.05					

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
6/4/03	10:15:00	2.00	1.05					
6/4/03	10:30:00	2.00	1.05					
6/4/03	10:45:00	2.00	1.05					
6/4/03	11:00:00	1.90	1.00					
6/4/03	11:15:00	2.00	1.05					
6/4/03	11:30:00	2.00	1.05					
6/4/03	11:45:00	2.00	1.05					
6/4/03	12:00:00	2.20	1.16					
6/4/03	12:15:00	2.20	1.16					
6/4/03	12:30:00	2.00	1.05					
6/4/03	12:45:00	2.10	1.11					
6/4/03	13:00:00	2.00	1.05	BCi-6	6/4/03	1300	4.36	4.14
6/4/03	13:15:00	2.00	1.05					
6/4/03	13:30:00	2.30	1.21					
6/4/03	13:45:00	2.30	1.21					
6/4/03	14:00:00	2.30	1.21					
6/4/03	14:15:00	2.10	1.11					
6/4/03	14:30:00	2.20	1.16					
6/4/03	14:45:00	2.40	1.26					
6/4/03	15:00:00	2.50	1.32					
6/4/03	15:15:00	2.80	1.47					
6/4/03	15:30:00	2.70	1.42					
6/4/03	15:45:00	3.10	1.63					
6/4/03	16:00:00	3.00	1.58					
6/4/03	16:15:00	3.10	1.63					
6/4/03	16:30:00	3.60	1.89					
6/4/03	16:45:00	3.40	1.79					
6/4/03	17:00:00	3.40	1.79					
6/4/03	17:15:00	3.60	1.89					
6/4/03	17:30:00	3.50	1.84					
6/4/03	17:45:00	3.40	1.79					
6/4/03	18:00:00	3.40	1.79					
6/4/03	18:15:00	3.40	1.79					
6/4/03	18:30:00	3.60	1.89					
6/4/03	18:45:00	3.60	1.89					
6/4/03	19:00:00	3.50	1.84					
6/4/03	19:15:00	3.50	1.84					
6/4/03	19:30:00	3.50	1.84					
6/4/03	19:45:00	3.50	1.84					
6/4/03	20:00:00	3.50	1.84					
6/4/03	20:15:00	3.50	1.84					
6/4/03	20:30:00	3.60	1.89					
6/4/03	20:45:00	3.60	1.89					

Table H1.5.
Survey Station BCi-7

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
6/4/03	21:00:00	3.60	1.89					
6/4/03	21:15:00	3.60	1.89					
6/4/03	21:30:00	3.60	1.89					
6/4/03	21:45:00	3.60	1.89					
6/4/03	22:00:00	3.60	1.89					
6/4/03	22:15:00	3.60	1.89					
6/4/03	22:30:00	3.50	1.84					
6/4/03	22:45:00	3.50	1.84					
6/4/03	23:00:00	3.40	1.79					
6/4/03	23:15:00	3.40	1.79					
6/4/03	23:30:00	3.30	1.74					
6/4/03	23:45:00	3.30	1.74					
6/5/03	0:00:00	3.30	1.74					
	MIN =	1.90						

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Table H1.5.
Survey Station BCi-7

Table H1.6.Continuous Data Used for BCh-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
6/4/03	0:00:00	3.00	2.50					
6/4/03	0:15:00	3.00	2.50					
6/4/03	0:30:00	2.90	2.42					
6/4/03	0:45:00	2.90	2.42					
6/4/03	1:00:00	2.90	2.42					
6/4/03	1:15:00	2.90	2.42					
6/4/03	1:30:00	2.80	2.33					
6/4/03	1:45:00	2.80	2.33					
6/4/03	2:00:00	2.80	2.33					
6/4/03	2:15:00	2.70	2.25					
6/4/03	2:30:00	2.70	2.25					
6/4/03	2:45:00	2.60	2.17					
6/4/03	3:00:00	2.60	2.17					
6/4/03	3:15:00	2.50	2.08					
6/4/03	3:30:00	2.50	2.08					
6/4/03	3:45:00	2.40	2.00					
6/4/03	4:00:00	2.40	2.00					
6/4/03	4:15:00	2.30	1.92					
6/4/03	4:30:00	2.20	1.83					
6/4/03	4:45:00	2.10	1.75					
6/4/03	5:00:00	2.10	1.75					
6/4/03	5:15:00	2.00	1.67					
6/4/03	5:30:00	1.90	1.58					
6/4/03	5:45:00	1.80	1.50					
6/4/03	6:00:00	1.80	1.50					
6/4/03	6:15:00	1.70	1.42					
6/4/03	6:30:00	1.70	1.42					
6/4/03	6:45:00	1.60	1.33					
6/4/03	7:00:00	1.50	1.25					
6/4/03	7:15:00	1.50	1.25					
6/4/03	7:30:00	1.40	1.17					
6/4/03	7:45:00	1.40	1.17					
6/4/03	8:00:00	1.30	1.08					
6/4/03	8:15:00	1.30	1.08	BCh-3	6/4/03	815	1.97	1.82
6/4/03	8:30:00	1.30	1.08					
6/4/03	8:45:00	1.30	1.08					
6/4/03	9:00:00	1.30	1.08					
6/4/03	9:15:00	1.30	1.08					
6/4/03	9:30:00	1.30	1.08					
6/4/03	9:45:00	1.40	1.17					
6/4/03	10:00:00	1.40	1.17	BCh-1	6/4/03	1000	1.39	1.19

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
6/4/03	10:15:00	1.50	1.25					
6/4/03	10:30:00	1.40	1.17					
6/4/03	10:45:00	1.60	1.33					
6/4/03	11:00:00	1.50	1.25					
6/4/03	11:15:00	1.50	1.25					
6/4/03	11:30:00	1.60	1.33					
6/4/03	11:45:00	1.20	1.00					
6/4/03	12:00:00	1.60	1.33					
6/4/03	12:15:00	1.70	1.42					
6/4/03	12:30:00	1.50	1.25					
6/4/03	12:45:00	1.90	1.58					
6/4/03	13:00:00	2.00	1.67					
6/4/03	13:15:00	1.40	1.17					
6/4/03	13:30:00	2.70	2.25					
6/4/03	13:45:00	2.00	1.67					
6/4/03	14:00:00	1.60	1.33					
6/4/03	14:15:00	1.60	1.33					
6/4/03	14:30:00	1.70	1.42					
6/4/03	14:45:00	2.00	1.67					
6/4/03	15:00:00	1.80	1.50					
6/4/03	15:15:00	2.20	1.83					
6/4/03	15:30:00	2.10	1.75					
6/4/03	15:45:00	2.20	1.83					
6/4/03	16:00:00	2.10	1.75					
6/4/03	16:15:00	2.40	2.00					
6/4/03	16:30:00	2.70	2.25					
6/4/03	16:45:00	2.90	2.42					
6/4/03	17:00:00	2.80	2.33					
6/4/03	17:15:00	2.50	2.08					
6/4/03	17:30:00	3.00	2.50					
6/4/03	17:45:00	2.70	2.25					
6/4/03	18:00:00	2.60	2.17					
6/4/03	18:15:00	2.80	2.33					
6/4/03	18:30:00	2.80	2.33					
6/4/03	18:45:00	2.70	2.25					
6/4/03	19:00:00	2.60	2.17					
6/4/03	19:15:00	2.50	2.08					
6/4/03	19:30:00	2.30	1.92					
6/4/03	19:45:00	2.70	2.25					
6/4/03	20:00:00	2.50	2.08					
6/4/03	20:15:00	2.40	2.00					
6/4/03	20:30:00	2.40	2.00					
6/4/03	20:45:00	2.40	2.00					

Table H1.6.
Survey Station BCH-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
6/4/03	21:00:00	2.40	2.00					
6/4/03	21:15:00	2.50	2.08					
6/4/03	21:30:00	2.40	2.00					
6/4/03	21:45:00	2.40	2.00					
6/4/03	22:00:00	2.40	2.00					
6/4/03	22:15:00	2.30	1.92					
6/4/03	22:30:00	2.40	2.00					
6/4/03	22:45:00	2.30	1.92					
6/4/03	23:00:00	2.40	2.00					
6/4/03	23:15:00	2.30	1.92					
6/4/03	23:30:00	2.20	1.83					
6/4/03	23:45:00	2.30	1.92					
6/5/03	0:00:00	2.20	1.83					
	MIN =	1.20						

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Table H1.6.
Survey Station BCH-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
6/4/03	21:00:00	2.60	1.53					
6/4/03	21:15:00	2.80	1.65					
6/4/03	21:30:00	2.70	1.59					
6/4/03	21:45:00	2.70	1.59					
6/4/03	22:00:00	2.70	1.59					
6/4/03	22:15:00	2.60	1.53					
6/4/03	22:30:00	2.60	1.53					
6/4/03	22:45:00	2.60	1.53					
6/4/03	23:00:00	2.50	1.47					
6/4/03	23:15:00	2.40	1.41					
6/4/03	23:30:00	2.50	1.47					
6/4/03	23:45:00	2.50	1.47					
6/5/03	0:00:00	2.40	1.41					
	MIN =	1.70						

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Table H1.7.
Survey Station BCh-4

Table H1.7.Continuous Data Used for BCh-4

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
6/4/03	0:00:00	2.60	1.53					
6/4/03	0:15:00	2.60	1.53					
6/4/03	0:30:00	2.60	1.53					
6/4/03	0:45:00	2.50	1.47					
6/4/03	1:00:00	2.50	1.47					
6/4/03	1:15:00	2.50	1.47					
6/4/03	1:30:00	2.40	1.41					
6/4/03	1:45:00	2.40	1.41					
6/4/03	2:00:00	2.40	1.41					
6/4/03	2:15:00	2.30	1.35					
6/4/03	2:30:00	2.30	1.35					
6/4/03	2:45:00	2.30	1.35					
6/4/03	3:00:00	2.30	1.35					
6/4/03	3:15:00	2.20	1.29					
6/4/03	3:30:00	2.20	1.29					
6/4/03	3:45:00	2.20	1.29					
6/4/03	4:00:00	2.20	1.29					
6/4/03	4:15:00	2.10	1.24					
6/4/03	4:30:00	2.10	1.24					
6/4/03	4:45:00	2.10	1.24					
6/4/03	5:00:00	2.10	1.24					
6/4/03	5:15:00	2.00	1.18					
6/4/03	5:30:00	2.00	1.18					
6/4/03	5:45:00	1.90	1.12					
6/4/03	6:00:00	1.90	1.12					
6/4/03	6:15:00	1.90	1.12					
6/4/03	6:30:00	1.80	1.06					
6/4/03	6:45:00	1.80	1.06					
6/4/03	7:00:00	1.80	1.06					
6/4/03	7:15:00	1.80	1.06					
6/4/03	7:30:00	1.80	1.06					
6/4/03	7:45:00	1.70	1.00					
6/4/03	8:00:00	1.70	1.00					
6/4/03	8:15:00	1.80	1.06					
6/4/03	8:30:00	1.80	1.06					
6/4/03	8:45:00	1.70	1.00					
6/4/03	9:00:00	2.00	1.18					
6/4/03	9:15:00	1.80	1.06					
6/4/03	9:30:00	1.90	1.12					
6/4/03	9:45:00	2.10	1.24					
6/4/03	10:00:00	2.40	1.41					

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
6/4/03	10:15:00	2.30	1.35	BCh-5	6/4/03	1015	1.85	1.37
6/4/03	10:30:00	2.60	1.53					
6/4/03	10:45:00	2.20	1.29					
6/4/03	11:00:00	2.40	1.41					
6/4/03	11:15:00	2.80	1.65					
6/4/03	11:30:00	3.10	1.82					
6/4/03	11:45:00	3.90	2.29					
6/4/03	12:00:00	3.60	2.12					
6/4/03	12:15:00	3.20	1.88					
6/4/03	12:30:00	3.60	2.12					
6/4/03	12:45:00	2.80	1.65					
6/4/03	13:00:00	2.70	1.59					
6/4/03	13:15:00	2.70	1.59					
6/4/03	13:30:00	2.20	1.29					
6/4/03	13:45:00	3.10	1.82					
6/4/03	14:00:00	4.40	2.59					
6/4/03	14:15:00	3.30	1.94					
6/4/03	14:30:00	3.00	1.76					
6/4/03	14:45:00	3.70	2.18					
6/4/03	15:00:00	4.70	2.76					
6/4/03	15:15:00	4.50	2.65					
6/4/03	15:30:00	4.00	2.35					
6/4/03	15:45:00	3.60	2.12					
6/4/03	16:00:00	3.50	2.06					
6/4/03	16:15:00	4.40	2.59					
6/4/03	16:30:00	4.40	2.59					
6/4/03	16:45:00	4.40	2.59					
6/4/03	17:00:00	4.50	2.65					
6/4/03	17:15:00	4.40	2.59					
6/4/03	17:30:00	4.50	2.65					
6/4/03	17:45:00	4.40	2.59					
6/4/03	18:00:00	3.90	2.29					
6/4/03	18:15:00	3.70	2.18					
6/4/03	18:30:00	3.50	2.06					
6/4/03	18:45:00	3.30	1.94					
6/4/03	19:00:00	3.10	1.82					
6/4/03	19:15:00	3.30	1.94					
6/4/03	19:30:00	3.20	1.88					
6/4/03	19:45:00	3.10	1.82					
6/4/03	20:00:00	3.00	1.76					
6/4/03	20:15:00	2.90	1.71					
6/4/03	20:30:00	3.00	1.76					
6/4/03	20:45:00	3.00	1.76					

Table H1.7.
Survey Station BCh-4

Table H1.8.Continuous Data Used for BCh-6

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
6/4/03	0:00:00	2.50	1.56					
6/4/03	0:15:00	2.60	1.63					
6/4/03	0:30:00	2.20	1.38					
6/4/03	0:45:00	2.10	1.31					
6/4/03	1:00:00	2.00	1.25					
6/4/03	1:15:00	2.20	1.38					
6/4/03	1:30:00	2.40	1.50					
6/4/03	1:45:00	2.30	1.44					
6/4/03	2:00:00	2.10	1.31					
6/4/03	2:15:00	2.10	1.31					
6/4/03	2:30:00	2.00	1.25					
6/4/03	2:45:00	2.20	1.38					
6/4/03	3:00:00	2.20	1.38					
6/4/03	3:15:00	2.00	1.25					
6/4/03	3:30:00	2.00	1.25					
6/4/03	3:45:00	1.90	1.19					
6/4/03	4:00:00	1.90	1.19					
6/4/03	4:15:00	2.00	1.25					
6/4/03	4:30:00	2.10	1.31					
6/4/03	4:45:00	2.00	1.25					
6/4/03	5:00:00	1.90	1.19					
6/4/03	5:15:00	1.60	1.00					
6/4/03	5:30:00	1.90	1.19					
6/4/03	5:45:00	2.00	1.25					
6/4/03	6:00:00	1.90	1.19					
6/4/03	6:15:00	1.90	1.19					
6/4/03	6:30:00	2.00	1.25					
6/4/03	6:45:00	2.30	1.44					
6/4/03	7:00:00	2.50	1.56					
6/4/03	7:15:00	2.20	1.38					
6/4/03	7:30:00	1.90	1.19					
6/4/03	7:45:00	2.10	1.31					
6/4/03	8:00:00	2.10	1.31					
6/4/03	8:15:00	2.10	1.31					
6/4/03	8:30:00	2.20	1.38					
6/4/03	8:45:00	2.20	1.38					
6/4/03	9:00:00	2.30	1.44					
6/4/03	9:15:00	2.30	1.44					
6/4/03	9:30:00	2.10	1.31					
6/4/03	9:45:00	1.80	1.13					
6/4/03	10:00:00	1.90	1.19					

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
6/4/03	10:15:00	2.00	1.25					
6/4/03	10:30:00	2.00	1.25					
6/4/03	10:45:00	1.90	1.19					
6/4/03	11:00:00	1.80	1.13					
6/4/03	11:15:00	1.80	1.13					
6/4/03	11:30:00	1.80	1.13					
6/4/03	11:45:00	1.80	1.13					
6/4/03	12:00:00	2.20	1.38					
6/4/03	12:15:00	2.00	1.25					
6/4/03	12:30:00	2.20	1.38					
6/4/03	12:45:00	1.70	1.06					
6/4/03	13:00:00	1.80	1.13					
6/4/03	13:15:00	2.20	1.38					
6/4/03	13:30:00	1.90	1.19					
6/4/03	13:45:00	1.70	1.06					
6/4/03	14:00:00	2.20	1.38					
6/4/03	14:15:00	1.80	1.13					
6/4/03	14:30:00	2.00	1.25					
6/4/03	14:45:00	1.90	1.19					
6/4/03	15:00:00	3.30	2.06					
6/4/03	15:15:00	2.70	1.69					
6/4/03	15:30:00	3.60	2.25					
6/4/03	15:45:00	3.30	2.06					
6/4/03	16:00:00	2.50	1.56					
6/4/03	16:15:00	3.00	1.88					
6/4/03	16:30:00	3.70	2.31					
6/4/03	16:45:00	3.10	1.94					
6/4/03	17:00:00	3.90	2.44					
6/4/03	17:15:00	3.10	1.94					
6/4/03	17:30:00	3.50	2.19					
6/4/03	17:45:00	4.10	2.56					
6/4/03	18:00:00	6.50	4.06					
6/4/03	18:15:00	3.90	2.44					
6/4/03	18:30:00	3.60	2.25					
6/4/03	18:45:00	2.60	1.63					
6/4/03	19:00:00	3.80	2.38					
6/4/03	19:15:00	4.10	2.56					
6/4/03	19:30:00	3.70	2.31					
6/4/03	19:45:00	3.10	1.94					
6/4/03	20:00:00	2.70	1.69					
6/4/03	20:15:00	2.80	1.75					
6/4/03	20:30:00	2.70	1.69					
6/4/03	20:45:00	2.80	1.75					

Table H1.8.
Survey Station BCh-6

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
6/4/03	21:00:00	3.20	2.00					
6/4/03	21:15:00	2.90	1.81					
6/4/03	21:30:00	2.80	1.75					
6/4/03	21:45:00	2.80	1.75					
6/4/03	22:00:00	2.50	1.56					
6/4/03	22:15:00	2.70	1.69					
6/4/03	22:30:00	2.50	1.56					
6/4/03	22:45:00	2.40	1.50					
6/4/03	23:00:00	2.50	1.56					
6/4/03	23:15:00	2.60	1.63					
6/4/03	23:30:00	2.60	1.63					
6/4/03	23:45:00	2.80	1.75					
6/5/03	0:00:00	2.60	1.63					
	MIN =	1.60						

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Table H1.8.
Survey Station BCh-6

Table H1.9.Continuous Data Used for LDA-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
6/4/03	0:00:00	5.80	1.41					
6/4/03	0:15:00	5.80	1.41					
6/4/03	0:30:00	5.30	1.29					
6/4/03	0:45:00	5.00	1.22					
6/4/03	1:00:00	5.60	1.37					
6/4/03	1:15:00	5.30	1.29					
6/4/03	1:30:00	5.20	1.27					
6/4/03	1:45:00	5.00	1.22					
6/4/03	2:00:00	5.30	1.29					
6/4/03	2:15:00	5.80	1.41					
6/4/03	2:30:00	5.70	1.39					
6/4/03	2:45:00	5.90	1.44					
6/4/03	3:00:00	4.60	1.12					
6/4/03	3:15:00	4.70	1.15					
6/4/03	3:30:00	5.00	1.22					
6/4/03	3:45:00	4.10	1.00					
6/4/03	4:00:00	4.60	1.12					
6/4/03	4:15:00	5.30	1.29					
6/4/03	4:30:00	5.00	1.22					
6/4/03	4:45:00	5.50	1.34					
6/4/03	5:00:00	4.90	1.20					
6/4/03	5:15:00	5.20	1.27					
6/4/03	5:30:00	5.50	1.34					
6/4/03	5:45:00	6.20	1.51					
6/4/03	6:00:00	6.70	1.63					
6/4/03	6:15:00	6.40	1.56					
6/4/03	6:30:00	6.60	1.61					
6/4/03	6:45:00	6.60	1.61					
6/4/03	7:00:00	6.60	1.61					
6/4/03	7:15:00	6.60	1.61					
6/4/03	7:30:00	6.60	1.61					
6/4/03	7:45:00	6.60	1.61					
6/4/03	8:00:00	6.60	1.61					
6/4/03	8:15:00	6.70	1.63					
6/4/03	8:30:00	6.80	1.66					
6/4/03	8:45:00	6.70	1.63					
6/4/03	9:00:00	6.80	1.66					
6/4/03	9:15:00	6.70	1.63					
6/4/03	9:30:00	6.80	1.66					
6/4/03	9:45:00	6.60	1.61					
6/4/03	10:00:00	6.90	1.68					

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
6/4/03	10:15:00	6.80	1.66					
6/4/03	10:30:00	6.60	1.61					
6/4/03	10:45:00	7.70	1.88					
6/4/03	11:00:00	6.70	1.63					
6/4/03	11:15:00	7.30	1.78					
6/4/03	11:30:00	8.00	1.95					
6/4/03	11:45:00	8.60	2.10					
6/4/03	12:00:00	8.50	2.07					
6/4/03	12:15:00	7.30	1.78					
6/4/03	12:30:00	7.90	1.93					
6/4/03	12:45:00	8.60	2.10					
6/4/03	13:00:00	9.30	2.27					
6/4/03	13:15:00	9.20	2.24					
6/4/03	13:30:00	9.10	2.22					
6/4/03	13:45:00	9.20	2.24					
6/4/03	14:00:00	9.20	2.24					
6/4/03	14:15:00	8.90	2.17					
6/4/03	14:30:00	8.90	2.17					
6/4/03	14:45:00	8.80	2.15					
6/4/03	15:00:00	8.90	2.17					
6/4/03	15:15:00	8.70	2.12					
6/4/03	15:30:00	8.70	2.12					
6/4/03	15:45:00	8.90	2.17					
6/4/03	16:00:00	8.80	2.15					
6/4/03	16:15:00	8.80	2.15					
6/4/03	16:30:00	8.60	2.10					
6/4/03	16:45:00	8.00	1.95					
6/4/03	17:00:00	8.10	1.98					
6/4/03	17:15:00	7.70	1.88					
6/4/03	17:30:00	7.60	1.85					
6/4/03	17:45:00	7.40	1.80					
6/4/03	18:00:00	7.30	1.78					
6/4/03	18:15:00	7.80	1.90					
6/4/03	18:30:00	7.30	1.78					
6/4/03	18:45:00	6.70	1.63					
6/4/03	19:00:00	8.30	2.02					
6/4/03	19:15:00	8.40	2.05					
6/4/03	19:30:00	7.30	1.78					
6/4/03	19:45:00	7.40	1.80					
6/4/03	20:00:00	6.20	1.51					
6/4/03	20:15:00	5.90	1.44					
6/4/03	20:30:00	6.60	1.61					
6/4/03	20:45:00	7.10	1.73					

Table H1.9.
Survey Station LDA-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
6/4/03	21:00:00	7.00	1.71					
6/4/03	21:15:00	5.50	1.34					
6/4/03	21:30:00	5.80	1.41					
6/4/03	21:45:00	5.70	1.39					
6/4/03	22:00:00	5.80	1.41					
6/4/03	22:15:00	5.30	1.29					
6/4/03	22:30:00	5.90	1.44					
6/4/03	22:45:00	6.30	1.54					
6/4/03	23:00:00	6.90	1.68					
6/4/03	23:15:00	6.80	1.66					
6/4/03	23:30:00	6.90	1.68					
6/4/03	23:45:00	6.60	1.61					
6/5/03	0:00:00	6.50	1.59					
	MIN =	4.10						

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Table H1.9.
Survey Station LDA-1

APPENDIX H2

Daily Average DO Values

Table H2.1.Continuous Data Used for BkC-1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	0:00:00	1.80	1.20					
6/4/03	0:15:00	1.70	1.13					
6/4/03	0:30:00	1.90	1.27					
6/4/03	0:45:00	1.60	1.07					
6/4/03	1:00:00	1.80	1.20					
6/4/03	1:15:00	1.80	1.20					
6/4/03	1:30:00	1.60	1.07					
6/4/03	1:45:00	1.40	0.93					
6/4/03	2:00:00	1.60	1.07					
6/4/03	2:15:00	1.60	1.07					
6/4/03	2:30:00	1.60	1.07					
6/4/03	2:45:00	1.50	1.00					
6/4/03	3:00:00	1.50	1.00					
6/4/03	3:15:00	1.50	1.00					
6/4/03	3:30:00	1.50	1.00					
6/4/03	3:45:00	1.40	0.93					
6/4/03	4:00:00	1.20	0.80					
6/4/03	4:15:00	1.20	0.80					
6/4/03	4:30:00	1.10	0.73					
6/4/03	4:45:00	0.90	0.60					
6/4/03	5:00:00	1.10	0.73					
6/4/03	5:15:00	1.10	0.73					
6/4/03	5:30:00	0.90	0.60					
6/4/03	5:45:00	0.90	0.60					
6/4/03	6:00:00	0.80	0.53					
6/4/03	6:15:00	0.80	0.53					
6/4/03	6:30:00	0.70	0.47					
6/4/03	6:45:00	0.80	0.53					
6/4/03	7:00:00	0.70	0.47					
6/4/03	7:15:00	0.70	0.47					
6/4/03	7:30:00	0.60	0.40					
6/4/03	7:45:00	0.50	0.33					
6/4/03	8:00:00	0.70	0.47					
6/4/03	8:15:00	2.20	1.47					
6/4/03	8:30:00	1.90	1.27					
6/4/03	8:45:00	1.10	0.73					
6/4/03	9:00:00	1.60	1.07					
6/4/03	9:15:00	1.70	1.13					
6/4/03	9:30:00	2.00	1.33					
6/4/03	9:45:00	1.90	1.27	BkC-2	6/4/03	948	1.2	0.95
6/4/03	10:00:00	2.00	1.33					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	10:15:00	1.90	1.27					
6/4/03	10:30:00	1.80	1.20					
6/4/03	10:45:00	1.80	1.20					
6/4/03	11:00:00	1.60	1.07					
6/4/03	11:15:00	2.10	1.40					
6/4/03	11:30:00	2.00	1.33					
6/4/03	11:45:00	2.10	1.40					
6/4/03	12:00:00	1.40	0.93					
6/4/03	12:15:00	1.60	1.07					
6/4/03	12:30:00	1.60	1.07					
6/4/03	12:45:00	1.50	1.00					
6/4/03	13:00:00	1.60	1.07					
6/4/03	13:15:00	1.60	1.07					
6/4/03	13:30:00	1.40	0.93					
6/4/03	13:45:00	2.30	1.53					
6/4/03	14:00:00	1.90	1.27					
6/4/03	14:15:00	1.60	1.07					
6/4/03	14:30:00	1.60	1.07					
6/4/03	14:45:00	1.60	1.07					
6/4/03	15:00:00	1.70	1.13					
6/4/03	15:15:00	2.00	1.33					
6/4/03	15:30:00	2.00	1.33					
6/4/03	15:45:00	1.90	1.27					
6/4/03	16:00:00	1.70	1.13					
6/4/03	16:15:00	1.50	1.00					
6/4/03	16:30:00	1.50	1.00					
6/4/03	16:45:00	1.20	0.80					
6/4/03	17:00:00	1.40	0.93					
6/4/03	17:15:00	1.20	0.80					
6/4/03	17:30:00	1.60	1.07					
6/4/03	17:45:00	1.50	1.00					
6/4/03	18:00:00	1.60	1.07					
6/4/03	18:15:00	1.50	1.00					
6/4/03	18:30:00	1.60	1.07					
6/4/03	18:45:00	1.80	1.20					
6/4/03	19:00:00	1.70	1.13					
6/4/03	19:15:00	1.60	1.07					
6/4/03	19:30:00	2.00	1.33					
6/4/03	19:45:00	1.80	1.20					
6/4/03	20:00:00	1.70	1.13					
6/4/03	20:15:00	1.40	0.93					
6/4/03	20:30:00	1.50	1.00					
6/4/03	20:45:00	1.40	0.93					

Table H2.1.
Survey Station BkC-1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	21:00:00	1.80	1.20					
6/4/03	21:15:00	1.60	1.07					
6/4/03	21:30:00	2.00	1.33					
6/4/03	21:45:00	2.00	1.33					
6/4/03	22:00:00	1.20	0.80					
6/4/03	22:15:00	1.40	0.93					
6/4/03	22:30:00	1.80	1.20					
6/4/03	22:45:00	1.20	0.80					
6/4/03	23:00:00	1.50	1.00					
6/4/03	23:15:00	0.90	0.60					
6/4/03	23:30:00	1.00	0.67					
6/4/03	23:45:00	0.80	0.53					
6/5/03	0:00:00	1.50	1.00					
	AVG =	1.50						

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Table H2.1.
Survey Station BkC-1

Table H2.2.Continuous Data Used for BV-1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	0:00:00	3.00	1.40					
6/4/03	0:15:00	3.00	1.40					
6/4/03	0:30:00	2.90	1.35					
6/4/03	0:45:00	2.90	1.35					
6/4/03	1:00:00	2.90	1.35					
6/4/03	1:15:00	2.90	1.35					
6/4/03	1:30:00	2.80	1.31					
6/4/03	1:45:00	2.80	1.31					
6/4/03	2:00:00	2.80	1.31					
6/4/03	2:15:00	2.70	1.26					
6/4/03	2:30:00	2.70	1.26					
6/4/03	2:45:00	2.60	1.21					
6/4/03	3:00:00	2.60	1.21					
6/4/03	3:15:00	2.50	1.17					
6/4/03	3:30:00	2.50	1.17					
6/4/03	3:45:00	2.40	1.12					
6/4/03	4:00:00	2.40	1.12					
6/4/03	4:15:00	2.30	1.07					
6/4/03	4:30:00	2.20	1.03					
6/4/03	4:45:00	2.10	0.98					
6/4/03	5:00:00	2.10	0.98					
6/4/03	5:15:00	2.00	0.93					
6/4/03	5:30:00	1.90	0.89					
6/4/03	5:45:00	1.80	0.84					
6/4/03	6:00:00	1.80	0.84					
6/4/03	6:15:00	1.70	0.79					
6/4/03	6:30:00	1.70	0.79					
6/4/03	6:45:00	1.60	0.75					
6/4/03	7:00:00	1.50	0.70					
6/4/03	7:15:00	1.50	0.70					
6/4/03	7:30:00	1.40	0.65					
6/4/03	7:45:00	1.40	0.65					
6/4/03	8:00:00	1.30	0.61					
6/4/03	8:15:00	1.30	0.61					
6/4/03	8:30:00	1.30	0.61					
6/4/03	8:45:00	1.30	0.61					
6/4/03	9:00:00	1.30	0.61					
6/4/03	9:15:00	1.30	0.61					
6/4/03	9:30:00	1.30	0.61					
6/4/03	9:45:00	1.40	0.65					
6/4/03	10:00:00	1.40	0.65	BV-2	6/4/03	1005	2.12	3.25

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	10:15:00	1.50	0.70					
6/4/03	10:30:00	1.40	0.65					
6/4/03	10:45:00	1.60	0.75					
6/4/03	11:00:00	1.50	0.70					
6/4/03	11:15:00	1.50	0.70					
6/4/03	11:30:00	1.60	0.75					
6/4/03	11:45:00	1.20	0.56					
6/4/03	12:00:00	1.60	0.75					
6/4/03	12:15:00	1.70	0.79					
6/4/03	12:30:00	1.50	0.70					
6/4/03	12:45:00	1.90	0.89					
6/4/03	13:00:00	2.00	0.93					
6/4/03	13:15:00	1.40	0.65					
6/4/03	13:30:00	2.70	1.26					
6/4/03	13:45:00	2.00	0.93					
6/4/03	14:00:00	1.60	0.75					
6/4/03	14:15:00	1.60	0.75					
6/4/03	14:30:00	1.70	0.79					
6/4/03	14:45:00	2.00	0.93					
6/4/03	15:00:00	1.80	0.84					
6/4/03	15:15:00	2.20	1.03					
6/4/03	15:30:00	2.10	0.98					
6/4/03	15:45:00	2.20	1.03					
6/4/03	16:00:00	2.10	0.98					
6/4/03	16:15:00	2.40	1.12					
6/4/03	16:30:00	2.70	1.26					
6/4/03	16:45:00	2.90	1.35					
6/4/03	17:00:00	2.80	1.31					
6/4/03	17:15:00	2.50	1.17					
6/4/03	17:30:00	3.00	1.40					
6/4/03	17:45:00	2.70	1.26					
6/4/03	18:00:00	2.60	1.21					
6/4/03	18:15:00	2.80	1.31					
6/4/03	18:30:00	2.80	1.31					
6/4/03	18:45:00	2.70	1.26					
6/4/03	19:00:00	2.60	1.21					
6/4/03	19:15:00	2.50	1.17					
6/4/03	19:30:00	2.30	1.07					
6/4/03	19:45:00	2.70	1.26					
6/4/03	20:00:00	2.50	1.17					
6/4/03	20:15:00	2.40	1.12					
6/4/03	20:30:00	2.40	1.12					
6/4/03	20:45:00	2.40	1.12					

Table H2.2.
Survey Station BV-1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	21:00:00	2.40	1.12					
6/4/03	21:15:00	2.50	1.17					
6/4/03	21:30:00	2.40	1.12					
6/4/03	21:45:00	2.40	1.12					
6/4/03	22:00:00	2.40	1.12					
6/4/03	22:15:00	2.30	1.07					
6/4/03	22:30:00	2.40	1.12					
6/4/03	22:45:00	2.30	1.07					
6/4/03	23:00:00	2.40	1.12					
6/4/03	23:15:00	2.30	1.07					
6/4/03	23:30:00	2.20	1.03					
6/4/03	23:45:00	2.30	1.07					
6/5/03	0:00:00	2.20	1.03					
	AVG =	2.14						

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Table H2.2.
Survey Station BV-1

Table H2.3.Continuous Data Used for BCi-2

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	0:00:00	2.60	1.00					
6/4/03	0:15:00	2.60	1.00					
6/4/03	0:30:00	2.40	0.92					
6/4/03	0:45:00	2.50	0.96					
6/4/03	1:00:00	2.40	0.92					
6/4/03	1:15:00	2.50	0.96					
6/4/03	1:30:00	2.40	0.92					
6/4/03	1:45:00	2.40	0.92					
6/4/03	2:00:00	2.40	0.92					
6/4/03	2:15:00	2.20	0.84					
6/4/03	2:30:00	2.10	0.81					
6/4/03	2:45:00	2.10	0.81					
6/4/03	3:00:00	2.30	0.88					
6/4/03	3:15:00	2.30	0.88					
6/4/03	3:30:00	2.00	0.77					
6/4/03	3:45:00	2.00	0.77					
6/4/03	4:00:00	2.10	0.81					
6/4/03	4:15:00	2.40	0.92					
6/4/03	4:30:00	1.90	0.73					
6/4/03	4:45:00	2.00	0.77					
6/4/03	5:00:00	2.10	0.81					
6/4/03	5:15:00	1.90	0.73					
6/4/03	5:30:00	2.00	0.77					
6/4/03	5:45:00	1.90	0.73					
6/4/03	6:00:00	1.70	0.65					
6/4/03	6:15:00	1.80	0.69					
6/4/03	6:30:00	1.80	0.69					
6/4/03	6:45:00	1.80	0.69					
6/4/03	7:00:00	1.80	0.69					
6/4/03	7:15:00	1.90	0.73					
6/4/03	7:30:00	1.80	0.69					
6/4/03	7:45:00	1.60	0.61					
6/4/03	8:00:00	1.60	0.61					
6/4/03	8:15:00	1.60	0.61					
6/4/03	8:30:00	1.70	0.65					
6/4/03	8:45:00	1.50	0.58					
6/4/03	9:00:00	1.40	0.54					
6/4/03	9:15:00	1.40	0.54					
6/4/03	9:30:00	1.60	0.61					
6/4/03	9:45:00	1.20	0.46					
6/4/03	10:00:00	1.20	0.46					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	10:15:00	1.40	0.54					
6/4/03	10:30:00	1.50	0.58					
6/4/03	10:45:00	1.30	0.50					
6/4/03	11:00:00	1.20	0.46	BCi-1	6/4/03	1110	1.1	2.39
6/4/03	11:15:00	1.20	0.46					
6/4/03	11:30:00	1.50	0.58					
6/4/03	11:45:00	2.10	0.81	BCi-3	6/4/03	1140	2.88	3.57
6/4/03	12:00:00	1.60	0.61					
6/4/03	12:15:00	1.80	0.69					
6/4/03	12:30:00	1.90	0.73					
6/4/03	12:45:00	2.20	0.84					
6/4/03	13:00:00	2.20	0.84					
6/4/03	13:15:00	2.10	0.81					
6/4/03	13:30:00	2.00	0.77					
6/4/03	13:45:00	2.00	0.77					
6/4/03	14:00:00	2.20	0.84					
6/4/03	14:15:00	2.40	0.92					
6/4/03	14:30:00	2.80	1.07					
6/4/03	14:45:00	3.00	1.15					
6/4/03	15:00:00	3.10	1.19					
6/4/03	15:15:00	2.90	1.11					
6/4/03	15:30:00	3.20	1.23					
6/4/03	15:45:00	3.20	1.23					
6/4/03	16:00:00	3.30	1.27					
6/4/03	16:15:00	3.60	1.38					
6/4/03	16:30:00	3.50	1.34					
6/4/03	16:45:00	3.60	1.38					
6/4/03	17:00:00	3.60	1.38					
6/4/03	17:15:00	3.50	1.34					
6/4/03	17:30:00	3.30	1.27					
6/4/03	17:45:00	3.30	1.27					
6/4/03	18:00:00	3.20	1.23					
6/4/03	18:15:00	3.20	1.23					
6/4/03	18:30:00	3.20	1.23					
6/4/03	18:45:00	3.70	1.42					
6/4/03	19:00:00	4.40	1.69					
6/4/03	19:15:00	4.80	1.84					
6/4/03	19:30:00	4.50	1.73					
6/4/03	19:45:00	5.20	2.00					
6/4/03	20:00:00	3.90	1.50					
6/4/03	20:15:00	4.10	1.57					
6/4/03	20:30:00	4.30	1.65					
6/4/03	20:45:00	4.10	1.57					

Table H2.3.
Survey Station BCi-2

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	21:00:00	3.80	1.46					
6/4/03	21:15:00	3.80	1.46					
6/4/03	21:30:00	3.80	1.46					
6/4/03	21:45:00	3.80	1.46					
6/4/03	22:00:00	3.70	1.42					
6/4/03	22:15:00	3.70	1.42					
6/4/03	22:30:00	3.60	1.38					
6/4/03	22:45:00	3.50	1.34					
6/4/03	23:00:00	3.50	1.34					
6/4/03	23:15:00	3.50	1.34					
6/4/03	23:30:00	3.40	1.31					
6/4/03	23:45:00	3.30	1.27					
6/5/03	0:00:00	3.30	1.27					
	AVG =	2.61						

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Table H2.3.
Survey Station BCi-2

Table H2.4.Continuous Data Used for BCi-4

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	0:00:00	3.20	1.25					
6/4/03	0:15:00	3.10	1.21					
6/4/03	0:30:00	3.10	1.21					
6/4/03	0:45:00	3.00	1.18					
6/4/03	1:00:00	3.00	1.18					
6/4/03	1:15:00	2.90	1.14					
6/4/03	1:30:00	2.90	1.14					
6/4/03	1:45:00	2.80	1.10					
6/4/03	2:00:00	2.80	1.10					
6/4/03	2:15:00	2.80	1.10					
6/4/03	2:30:00	2.60	1.02					
6/4/03	2:45:00	2.60	1.02					
6/4/03	3:00:00	2.60	1.02					
6/4/03	3:15:00	2.50	0.98					
6/4/03	3:30:00	2.40	0.94					
6/4/03	3:45:00	2.40	0.94					
6/4/03	4:00:00	2.30	0.90					
6/4/03	4:15:00	2.30	0.90					
6/4/03	4:30:00	2.20	0.86					
6/4/03	4:45:00	2.20	0.86					
6/4/03	5:00:00	2.10	0.82					
6/4/03	5:15:00	2.10	0.82					
6/4/03	5:30:00	2.10	0.82					
6/4/03	5:45:00	2.00	0.78					
6/4/03	6:00:00	2.00	0.78					
6/4/03	6:15:00	2.00	0.78					
6/4/03	6:30:00	2.00	0.78					
6/4/03	6:45:00	2.00	0.78					
6/4/03	7:00:00	1.90	0.74					
6/4/03	7:15:00	1.90	0.74					
6/4/03	7:30:00	1.90	0.74					
6/4/03	7:45:00	1.80	0.71					
6/4/03	8:00:00	1.80	0.71					
6/4/03	8:15:00	1.90	0.74					
6/4/03	8:30:00	1.80	0.71					
6/4/03	8:45:00	1.90	0.74					
6/4/03	9:00:00	1.80	0.71					
6/4/03	9:15:00	1.90	0.74					
6/4/03	9:30:00	2.10	0.82					
6/4/03	9:45:00	2.00	0.78	SJC-1	6/4/03	940	2.74	3.50
6/4/03	10:00:00	2.00	0.78					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	10:15:00	2.00	0.78					
6/4/03	10:30:00	2.00	0.78					
6/4/03	10:45:00	2.00	0.78					
6/4/03	11:00:00	1.90	0.74					
6/4/03	11:15:00	2.00	0.78					
6/4/03	11:30:00	1.80	0.71					
6/4/03	11:45:00	1.90	0.74					
6/4/03	12:00:00	1.80	0.71					
6/4/03	12:15:00	2.00	0.78					
6/4/03	12:30:00	2.00	0.78					
6/4/03	12:45:00	1.90	0.74					
6/4/03	13:00:00	1.80	0.71					
6/4/03	13:15:00	1.90	0.74	BCi-5	6/4/03	1310	2.87	3.85
6/4/03	13:30:00	2.20	0.86					
6/4/03	13:45:00	2.10	0.82					
6/4/03	14:00:00	2.00	0.78					
6/4/03	14:15:00	2.00	0.78					
6/4/03	14:30:00	2.10	0.82					
6/4/03	14:45:00	2.10	0.82					
6/4/03	15:00:00	2.90	1.14					
6/4/03	15:15:00	2.60	1.02					
6/4/03	15:30:00	2.40	0.94					
6/4/03	15:45:00	2.40	0.94					
6/4/03	16:00:00	2.90	1.14					
6/4/03	16:15:00	3.20	1.25					
6/4/03	16:30:00	3.50	1.37					
6/4/03	16:45:00	3.10	1.21					
6/4/03	17:00:00	3.30	1.29					
6/4/03	17:15:00	3.40	1.33					
6/4/03	17:30:00	3.50	1.37					
6/4/03	17:45:00	3.70	1.45					
6/4/03	18:00:00	3.70	1.45					
6/4/03	18:15:00	3.20	1.25					
6/4/03	18:30:00	3.20	1.25					
6/4/03	18:45:00	3.20	1.25					
6/4/03	19:00:00	3.40	1.33					
6/4/03	19:15:00	3.20	1.25					
6/4/03	19:30:00	3.30	1.29					
6/4/03	19:45:00	3.30	1.29					
6/4/03	20:00:00	3.20	1.25					
6/4/03	20:15:00	3.20	1.25					
6/4/03	20:30:00	3.30	1.29					
6/4/03	20:45:00	3.30	1.29					

Table H2.4.
Survey Station BCi-4

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	21:00:00	3.20	1.25					
6/4/03	21:15:00	3.10	1.21					
6/4/03	21:30:00	3.10	1.21					
6/4/03	21:45:00	3.10	1.21					
6/4/03	22:00:00	3.00	1.18					
6/4/03	22:15:00	3.00	1.18					
6/4/03	22:30:00	3.00	1.18					
6/4/03	22:45:00	2.90	1.14					
6/4/03	23:00:00	2.90	1.14					
6/4/03	23:15:00	2.90	1.14					
6/4/03	23:30:00	2.90	1.14					
6/4/03	23:45:00	2.90	1.14					
6/5/03	0:00:00	2.90	1.14					
	AVG =	2.55						

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Table H2.4.
Survey Station BCi-4

Table H2.5.Continuous Data Used for BCi-7

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	0:00:00	3.20	1.13					
6/4/03	0:15:00	3.20	1.13					
6/4/03	0:30:00	3.20	1.13					
6/4/03	0:45:00	3.10	1.10					
6/4/03	1:00:00	3.10	1.10					
6/4/03	1:15:00	3.00	1.06					
6/4/03	1:30:00	3.00	1.06					
6/4/03	1:45:00	3.00	1.06					
6/4/03	2:00:00	2.90	1.03					
6/4/03	2:15:00	2.90	1.03					
6/4/03	2:30:00	2.90	1.03					
6/4/03	2:45:00	2.90	1.03					
6/4/03	3:00:00	2.80	0.99					
6/4/03	3:15:00	2.80	0.99					
6/4/03	3:30:00	2.80	0.99					
6/4/03	3:45:00	2.80	0.99					
6/4/03	4:00:00	2.80	0.99					
6/4/03	4:15:00	2.70	0.95					
6/4/03	4:30:00	2.70	0.95					
6/4/03	4:45:00	2.70	0.95					
6/4/03	5:00:00	2.70	0.95					
6/4/03	5:15:00	2.60	0.92					
6/4/03	5:30:00	2.70	0.95					
6/4/03	5:45:00	2.60	0.92					
6/4/03	6:00:00	2.50	0.88					
6/4/03	6:15:00	2.60	0.92					
6/4/03	6:30:00	2.50	0.88					
6/4/03	6:45:00	2.50	0.88					
6/4/03	7:00:00	2.50	0.88					
6/4/03	7:15:00	2.40	0.85					
6/4/03	7:30:00	2.30	0.81					
6/4/03	7:45:00	2.40	0.85					
6/4/03	8:00:00	2.30	0.81					
6/4/03	8:15:00	2.30	0.81					
6/4/03	8:30:00	2.30	0.81					
6/4/03	8:45:00	2.30	0.81					
6/4/03	9:00:00	2.20	0.78	SJC-2	6/4/03	900	1.92	2.47
6/4/03	9:15:00	2.20	0.78					
6/4/03	9:30:00	2.20	0.78					
6/4/03	9:45:00	2.20	0.78					
6/4/03	10:00:00	2.00	0.71					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	10:15:00	2.00	0.71					
6/4/03	10:30:00	2.00	0.71					
6/4/03	10:45:00	2.00	0.71					
6/4/03	11:00:00	1.90	0.67					
6/4/03	11:15:00	2.00	0.71					
6/4/03	11:30:00	2.00	0.71					
6/4/03	11:45:00	2.00	0.71					
6/4/03	12:00:00	2.20	0.78					
6/4/03	12:15:00	2.20	0.78					
6/4/03	12:30:00	2.00	0.71					
6/4/03	12:45:00	2.10	0.74					
6/4/03	13:00:00	2.00	0.71	BCi-6	6/4/03	1300	4.36	6.17
6/4/03	13:15:00	2.00	0.71					
6/4/03	13:30:00	2.30	0.81	GB-1	6/4/03	1330	5.09	6.26
6/4/03	13:45:00	2.30	0.81					
6/4/03	14:00:00	2.30	0.81					
6/4/03	14:15:00	2.10	0.74					
6/4/03	14:30:00	2.20	0.78					
6/4/03	14:45:00	2.40	0.85					
6/4/03	15:00:00	2.50	0.88					
6/4/03	15:15:00	2.80	0.99					
6/4/03	15:30:00	2.70	0.95					
6/4/03	15:45:00	3.10	1.10					
6/4/03	16:00:00	3.00	1.06					
6/4/03	16:15:00	3.10	1.10					
6/4/03	16:30:00	3.60	1.27					
6/4/03	16:45:00	3.40	1.20					
6/4/03	17:00:00	3.40	1.20					
6/4/03	17:15:00	3.60	1.27					
6/4/03	17:30:00	3.50	1.24					
6/4/03	17:45:00	3.40	1.20					
6/4/03	18:00:00	3.40	1.20					
6/4/03	18:15:00	3.40	1.20					
6/4/03	18:30:00	3.60	1.27					
6/4/03	18:45:00	3.60	1.27					
6/4/03	19:00:00	3.50	1.24					
6/4/03	19:15:00	3.50	1.24					
6/4/03	19:30:00	3.50	1.24					
6/4/03	19:45:00	3.50	1.24					
6/4/03	20:00:00	3.50	1.24					
6/4/03	20:15:00	3.50	1.24					
6/4/03	20:30:00	3.60	1.27					
6/4/03	20:45:00	3.60	1.27					

Table H2.5.
Survey Station BCi-7

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	21:00:00	3.60	1.27					
6/4/03	21:15:00	3.60	1.27					
6/4/03	21:30:00	3.60	1.27					
6/4/03	21:45:00	3.60	1.27					
6/4/03	22:00:00	3.60	1.27					
6/4/03	22:15:00	3.60	1.27					
6/4/03	22:30:00	3.50	1.24					
6/4/03	22:45:00	3.50	1.24					
6/4/03	23:00:00	3.40	1.20					
6/4/03	23:15:00	3.40	1.20					
6/4/03	23:30:00	3.30	1.17					
6/4/03	23:45:00	3.30	1.17					
6/5/03	0:00:00	3.30	1.17					
	AVG =	2.83						

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Table H2.5.
Survey Station BCi-7

Table H2.6.Continuous Data Used for BCh-2

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	0:00:00	3.00	1.40					
6/4/03	0:15:00	3.00	1.40					
6/4/03	0:30:00	2.90	1.35					
6/4/03	0:45:00	2.90	1.35					
6/4/03	1:00:00	2.90	1.35					
6/4/03	1:15:00	2.90	1.35					
6/4/03	1:30:00	2.80	1.31					
6/4/03	1:45:00	2.80	1.31					
6/4/03	2:00:00	2.80	1.31					
6/4/03	2:15:00	2.70	1.26					
6/4/03	2:30:00	2.70	1.26					
6/4/03	2:45:00	2.60	1.21					
6/4/03	3:00:00	2.60	1.21					
6/4/03	3:15:00	2.50	1.17					
6/4/03	3:30:00	2.50	1.17					
6/4/03	3:45:00	2.40	1.12					
6/4/03	4:00:00	2.40	1.12					
6/4/03	4:15:00	2.30	1.07					
6/4/03	4:30:00	2.20	1.03					
6/4/03	4:45:00	2.10	0.98					
6/4/03	5:00:00	2.10	0.98					
6/4/03	5:15:00	2.00	0.93					
6/4/03	5:30:00	1.90	0.89					
6/4/03	5:45:00	1.80	0.84					
6/4/03	6:00:00	1.80	0.84					
6/4/03	6:15:00	1.70	0.79					
6/4/03	6:30:00	1.70	0.79					
6/4/03	6:45:00	1.60	0.75					
6/4/03	7:00:00	1.50	0.70					
6/4/03	7:15:00	1.50	0.70					
6/4/03	7:30:00	1.40	0.65					
6/4/03	7:45:00	1.40	0.65					
6/4/03	8:00:00	1.30	0.61					
6/4/03	8:15:00	1.30	0.61	BCh-3	6/4/03	815	1.97	3.25
6/4/03	8:30:00	1.30	0.61					
6/4/03	8:45:00	1.30	0.61					
6/4/03	9:00:00	1.30	0.61					
6/4/03	9:15:00	1.30	0.61					
6/4/03	9:30:00	1.30	0.61					
6/4/03	9:45:00	1.40	0.65					
6/4/03	10:00:00	1.40	0.65	BCh-1	6/4/03	1000	1.39	2.13

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	10:15:00	1.50	0.70	DBC-1	6/4/03	1013	1.88	2.69
6/4/03	10:30:00	1.40	0.65					
6/4/03	10:45:00	1.60	0.75					
6/4/03	11:00:00	1.50	0.70					
6/4/03	11:15:00	1.50	0.70					
6/4/03	11:30:00	1.60	0.75					
6/4/03	11:45:00	1.20	0.56					
6/4/03	12:00:00	1.60	0.75					
6/4/03	12:15:00	1.70	0.79					
6/4/03	12:30:00	1.50	0.70					
6/4/03	12:45:00	1.90	0.89					
6/4/03	13:00:00	2.00	0.93					
6/4/03	13:15:00	1.40	0.65					
6/4/03	13:30:00	2.70	1.26					
6/4/03	13:45:00	2.00	0.93					
6/4/03	14:00:00	1.60	0.75					
6/4/03	14:15:00	1.60	0.75					
6/4/03	14:30:00	1.70	0.79					
6/4/03	14:45:00	2.00	0.93					
6/4/03	15:00:00	1.80	0.84					
6/4/03	15:15:00	2.20	1.03					
6/4/03	15:30:00	2.10	0.98					
6/4/03	15:45:00	2.20	1.03					
6/4/03	16:00:00	2.10	0.98					
6/4/03	16:15:00	2.40	1.12					
6/4/03	16:30:00	2.70	1.26					
6/4/03	16:45:00	2.90	1.35					
6/4/03	17:00:00	2.80	1.31					
6/4/03	17:15:00	2.50	1.17					
6/4/03	17:30:00	3.00	1.40					
6/4/03	17:45:00	2.70	1.26					
6/4/03	18:00:00	2.60	1.21					
6/4/03	18:15:00	2.80	1.31					
6/4/03	18:30:00	2.80	1.31					
6/4/03	18:45:00	2.70	1.26					
6/4/03	19:00:00	2.60	1.21					
6/4/03	19:15:00	2.50	1.17					
6/4/03	19:30:00	2.30	1.07					
6/4/03	19:45:00	2.70	1.26					
6/4/03	20:00:00	2.50	1.17					
6/4/03	20:15:00	2.40	1.12					
6/4/03	20:30:00	2.40	1.12					
6/4/03	20:45:00	2.40	1.12					

Table H2.6.
Survey Station BCH-2

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	21:00:00	2.40	1.12					
6/4/03	21:15:00	2.50	1.17					
6/4/03	21:30:00	2.40	1.12					
6/4/03	21:45:00	2.40	1.12					
6/4/03	22:00:00	2.40	1.12					
6/4/03	22:15:00	2.30	1.07					
6/4/03	22:30:00	2.40	1.12					
6/4/03	22:45:00	2.30	1.07					
6/4/03	23:00:00	2.40	1.12					
6/4/03	23:15:00	2.30	1.07					
6/4/03	23:30:00	2.20	1.03					
6/4/03	23:45:00	2.30	1.07					
6/5/03	0:00:00	2.20	1.03					
	AVG =	2.14						

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Table H2.6.
Survey Station BCH-2

Table H2.7.Continuous Data Used for BCh-4

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	0:00:00	2.60	0.94					
6/4/03	0:15:00	2.60	0.94					
6/4/03	0:30:00	2.60	0.94					
6/4/03	0:45:00	2.50	0.90					
6/4/03	1:00:00	2.50	0.90					
6/4/03	1:15:00	2.50	0.90					
6/4/03	1:30:00	2.40	0.87					
6/4/03	1:45:00	2.40	0.87					
6/4/03	2:00:00	2.40	0.87					
6/4/03	2:15:00	2.30	0.83					
6/4/03	2:30:00	2.30	0.83					
6/4/03	2:45:00	2.30	0.83					
6/4/03	3:00:00	2.30	0.83					
6/4/03	3:15:00	2.20	0.80					
6/4/03	3:30:00	2.20	0.80					
6/4/03	3:45:00	2.20	0.80					
6/4/03	4:00:00	2.20	0.80					
6/4/03	4:15:00	2.10	0.76					
6/4/03	4:30:00	2.10	0.76					
6/4/03	4:45:00	2.10	0.76					
6/4/03	5:00:00	2.10	0.76					
6/4/03	5:15:00	2.00	0.72					
6/4/03	5:30:00	2.00	0.72					
6/4/03	5:45:00	1.90	0.69					
6/4/03	6:00:00	1.90	0.69					
6/4/03	6:15:00	1.90	0.69					
6/4/03	6:30:00	1.80	0.65					
6/4/03	6:45:00	1.80	0.65					
6/4/03	7:00:00	1.80	0.65					
6/4/03	7:15:00	1.80	0.65					
6/4/03	7:30:00	1.80	0.65					
6/4/03	7:45:00	1.70	0.62					
6/4/03	8:00:00	1.70	0.62					
6/4/03	8:15:00	1.80	0.65					
6/4/03	8:30:00	1.80	0.65					
6/4/03	8:45:00	1.70	0.62					
6/4/03	9:00:00	2.00	0.72					
6/4/03	9:15:00	1.80	0.65					
6/4/03	9:30:00	1.90	0.69					
6/4/03	9:45:00	2.10	0.76					
6/4/03	10:00:00	2.40	0.87					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	10:15:00	2.30	0.83	BCh-5	6/4/03	1015	1.85	2.22
6/4/03	10:30:00	2.60	0.94					
6/4/03	10:45:00	2.20	0.80					
6/4/03	11:00:00	2.40	0.87					
6/4/03	11:15:00	2.80	1.01					
6/4/03	11:30:00	3.10	1.12					
6/4/03	11:45:00	3.90	1.41					
6/4/03	12:00:00	3.60	1.30					
6/4/03	12:15:00	3.20	1.16					
6/4/03	12:30:00	3.60	1.30					
6/4/03	12:45:00	2.80	1.01					
6/4/03	13:00:00	2.70	0.98					
6/4/03	13:15:00	2.70	0.98					
6/4/03	13:30:00	2.20	0.80					
6/4/03	13:45:00	3.10	1.12					
6/4/03	14:00:00	4.40	1.59					
6/4/03	14:15:00	3.30	1.19					
6/4/03	14:30:00	3.00	1.09					
6/4/03	14:45:00	3.70	1.34					
6/4/03	15:00:00	4.70	1.70					
6/4/03	15:15:00	4.50	1.63					
6/4/03	15:30:00	4.00	1.45					
6/4/03	15:45:00	3.60	1.30					
6/4/03	16:00:00	3.50	1.27					
6/4/03	16:15:00	4.40	1.59					
6/4/03	16:30:00	4.40	1.59					
6/4/03	16:45:00	4.40	1.59					
6/4/03	17:00:00	4.50	1.63					
6/4/03	17:15:00	4.40	1.59					
6/4/03	17:30:00	4.50	1.63					
6/4/03	17:45:00	4.40	1.59					
6/4/03	18:00:00	3.90	1.41					
6/4/03	18:15:00	3.70	1.34					
6/4/03	18:30:00	3.50	1.27					
6/4/03	18:45:00	3.30	1.19					
6/4/03	19:00:00	3.10	1.12					
6/4/03	19:15:00	3.30	1.19					
6/4/03	19:30:00	3.20	1.16					
6/4/03	19:45:00	3.10	1.12					
6/4/03	20:00:00	3.00	1.09					
6/4/03	20:15:00	2.90	1.05					
6/4/03	20:30:00	3.00	1.09					
6/4/03	20:45:00	3.00	1.09					

Table H2.7.
Survey Station BCh-4

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	21:00:00	2.60	0.94					
6/4/03	21:15:00	2.80	1.01					
6/4/03	21:30:00	2.70	0.98					
6/4/03	21:45:00	2.70	0.98					
6/4/03	22:00:00	2.70	0.98					
6/4/03	22:15:00	2.60	0.94					
6/4/03	22:30:00	2.60	0.94					
6/4/03	22:45:00	2.60	0.94					
6/4/03	23:00:00	2.50	0.90					
6/4/03	23:15:00	2.40	0.87					
6/4/03	23:30:00	2.50	0.90					
6/4/03	23:45:00	2.50	0.90					
6/5/03	0:00:00	2.40	0.87					
	AVG =	2.76						

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Table H2.7.
Survey Station BCh-4

Table H2.8.Continuous Data Used for BCh-6

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	0:00:00	2.50	1.01					
6/4/03	0:15:00	2.60	1.05					
6/4/03	0:30:00	2.20	0.89					
6/4/03	0:45:00	2.10	0.85					
6/4/03	1:00:00	2.00	0.81					
6/4/03	1:15:00	2.20	0.89					
6/4/03	1:30:00	2.40	0.97					
6/4/03	1:45:00	2.30	0.93					
6/4/03	2:00:00	2.10	0.85					
6/4/03	2:15:00	2.10	0.85					
6/4/03	2:30:00	2.00	0.81					
6/4/03	2:45:00	2.20	0.89					
6/4/03	3:00:00	2.20	0.89					
6/4/03	3:15:00	2.00	0.81					
6/4/03	3:30:00	2.00	0.81					
6/4/03	3:45:00	1.90	0.77					
6/4/03	4:00:00	1.90	0.77					
6/4/03	4:15:00	2.00	0.81					
6/4/03	4:30:00	2.10	0.85					
6/4/03	4:45:00	2.00	0.81					
6/4/03	5:00:00	1.90	0.77					
6/4/03	5:15:00	1.60	0.65					
6/4/03	5:30:00	1.90	0.77					
6/4/03	5:45:00	2.00	0.81					
6/4/03	6:00:00	1.90	0.77					
6/4/03	6:15:00	1.90	0.77					
6/4/03	6:30:00	2.00	0.81					
6/4/03	6:45:00	2.30	0.93					
6/4/03	7:00:00	2.50	1.01					
6/4/03	7:15:00	2.20	0.89					
6/4/03	7:30:00	1.90	0.77					
6/4/03	7:45:00	2.10	0.85					
6/4/03	8:00:00	2.10	0.85					
6/4/03	8:15:00	2.10	0.85					
6/4/03	8:30:00	2.20	0.89					
6/4/03	8:45:00	2.20	0.89					
6/4/03	9:00:00	2.30	0.93					
6/4/03	9:15:00	2.30	0.93					
6/4/03	9:30:00	2.10	0.85					
6/4/03	9:45:00	1.80	0.73					
6/4/03	10:00:00	1.90	0.77					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	10:15:00	2.00	0.81					
6/4/03	10:30:00	2.00	0.81					
6/4/03	10:45:00	1.90	0.77					
6/4/03	11:00:00	1.80	0.73					
6/4/03	11:15:00	1.80	0.73					
6/4/03	11:30:00	1.80	0.73					
6/4/03	11:45:00	1.80	0.73					
6/4/03	12:00:00	2.20	0.89					
6/4/03	12:15:00	2.00	0.81					
6/4/03	12:30:00	2.20	0.89					
6/4/03	12:45:00	1.70	0.69					
6/4/03	13:00:00	1.80	0.73					
6/4/03	13:15:00	2.20	0.89					
6/4/03	13:30:00	1.90	0.77					
6/4/03	13:45:00	1.70	0.69					
6/4/03	14:00:00	2.20	0.89					
6/4/03	14:15:00	1.80	0.73					
6/4/03	14:30:00	2.00	0.81					
6/4/03	14:45:00	1.90	0.77					
6/4/03	15:00:00	3.30	1.34					
6/4/03	15:15:00	2.70	1.09					
6/4/03	15:30:00	3.60	1.46					
6/4/03	15:45:00	3.30	1.34					
6/4/03	16:00:00	2.50	1.01					
6/4/03	16:15:00	3.00	1.21					
6/4/03	16:30:00	3.70	1.50					
6/4/03	16:45:00	3.10	1.25					
6/4/03	17:00:00	3.90	1.58					
6/4/03	17:15:00	3.10	1.25					
6/4/03	17:30:00	3.50	1.42					
6/4/03	17:45:00	4.10	1.66					
6/4/03	18:00:00	6.50	2.63					
6/4/03	18:15:00	3.90	1.58					
6/4/03	18:30:00	3.60	1.46					
6/4/03	18:45:00	2.60	1.05					
6/4/03	19:00:00	3.80	1.54					
6/4/03	19:15:00	4.10	1.66					
6/4/03	19:30:00	3.70	1.50					
6/4/03	19:45:00	3.10	1.25					
6/4/03	20:00:00	2.70	1.09					
6/4/03	20:15:00	2.80	1.13					
6/4/03	20:30:00	2.70	1.09					
6/4/03	20:45:00	2.80	1.13					

Table H2.8.
Survey Station BCh-6

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	21:00:00	3.20	1.29					
6/4/03	21:15:00	2.90	1.17					
6/4/03	21:30:00	2.80	1.13					
6/4/03	21:45:00	2.80	1.13					
6/4/03	22:00:00	2.50	1.01					
6/4/03	22:15:00	2.70	1.09					
6/4/03	22:30:00	2.50	1.01					
6/4/03	22:45:00	2.40	0.97					
6/4/03	23:00:00	2.50	1.01					
6/4/03	23:15:00	2.60	1.05					
6/4/03	23:30:00	2.60	1.05					
6/4/03	23:45:00	2.80	1.13					
6/5/03	0:00:00	2.60	1.05					
	AVG =	2.47						

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Table H2.8.
Survey Station BCh-6

Table H2.9.Continuous Data Used for LDA-1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	0:00:00	5.80	0.85					
6/4/03	0:15:00	5.80	0.85					
6/4/03	0:30:00	5.30	0.77					
6/4/03	0:45:00	5.00	0.73					
6/4/03	1:00:00	5.60	0.82					
6/4/03	1:15:00	5.30	0.77					
6/4/03	1:30:00	5.20	0.76					
6/4/03	1:45:00	5.00	0.73					
6/4/03	2:00:00	5.30	0.77					
6/4/03	2:15:00	5.80	0.85					
6/4/03	2:30:00	5.70	0.83					
6/4/03	2:45:00	5.90	0.86					
6/4/03	3:00:00	4.60	0.67					
6/4/03	3:15:00	4.70	0.69					
6/4/03	3:30:00	5.00	0.73					
6/4/03	3:45:00	4.10	0.60					
6/4/03	4:00:00	4.60	0.67					
6/4/03	4:15:00	5.30	0.77					
6/4/03	4:30:00	5.00	0.73					
6/4/03	4:45:00	5.50	0.80					
6/4/03	5:00:00	4.90	0.72					
6/4/03	5:15:00	5.20	0.76					
6/4/03	5:30:00	5.50	0.80					
6/4/03	5:45:00	6.20	0.91					
6/4/03	6:00:00	6.70	0.98					
6/4/03	6:15:00	6.40	0.94					
6/4/03	6:30:00	6.60	0.96					
6/4/03	6:45:00	6.60	0.96					
6/4/03	7:00:00	6.60	0.96					
6/4/03	7:15:00	6.60	0.96					
6/4/03	7:30:00	6.60	0.96					
6/4/03	7:45:00	6.60	0.96					
6/4/03	8:00:00	6.60	0.96					
6/4/03	8:15:00	6.70	0.98					
6/4/03	8:30:00	6.80	0.99					
6/4/03	8:45:00	6.70	0.98					
6/4/03	9:00:00	6.80	0.99					
6/4/03	9:15:00	6.70	0.98					
6/4/03	9:30:00	6.80	0.99					
6/4/03	9:45:00	6.60	0.96					
6/4/03	10:00:00	6.90	1.01					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	10:15:00	6.80	0.99					
6/4/03	10:30:00	6.60	0.96					
6/4/03	10:45:00	7.70	1.13					
6/4/03	11:00:00	6.70	0.98					
6/4/03	11:15:00	7.30	1.07					
6/4/03	11:30:00	8.00	1.17					
6/4/03	11:45:00	8.60	1.26					
6/4/03	12:00:00	8.50	1.24					
6/4/03	12:15:00	7.30	1.07					
6/4/03	12:30:00	7.90	1.15					
6/4/03	12:45:00	8.60	1.26					
6/4/03	13:00:00	9.30	1.36					
6/4/03	13:15:00	9.20	1.34					
6/4/03	13:30:00	9.10	1.33					
6/4/03	13:45:00	9.20	1.34					
6/4/03	14:00:00	9.20	1.34					
6/4/03	14:15:00	8.90	1.30					
6/4/03	14:30:00	8.90	1.30					
6/4/03	14:45:00	8.80	1.29					
6/4/03	15:00:00	8.90	1.30					
6/4/03	15:15:00	8.70	1.27					
6/4/03	15:30:00	8.70	1.27					
6/4/03	15:45:00	8.90	1.30					
6/4/03	16:00:00	8.80	1.29					
6/4/03	16:15:00	8.80	1.29					
6/4/03	16:30:00	8.60	1.26					
6/4/03	16:45:00	8.00	1.17					
6/4/03	17:00:00	8.10	1.18					
6/4/03	17:15:00	7.70	1.13					
6/4/03	17:30:00	7.60	1.11					
6/4/03	17:45:00	7.40	1.08					
6/4/03	18:00:00	7.30	1.07					
6/4/03	18:15:00	7.80	1.14					
6/4/03	18:30:00	7.30	1.07					
6/4/03	18:45:00	6.70	0.98					
6/4/03	19:00:00	8.30	1.21					
6/4/03	19:15:00	8.40	1.23					
6/4/03	19:30:00	7.30	1.07					
6/4/03	19:45:00	7.40	1.08					
6/4/03	20:00:00	6.20	0.91					
6/4/03	20:15:00	5.90	0.86					
6/4/03	20:30:00	6.60	0.96					
6/4/03	20:45:00	7.10	1.04					

Table H2.9.
Survey Station LDA-1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily AVG	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily AVG DO (mg/L)at sampling location
6/4/03	21:00:00	7.00	1.02					
6/4/03	21:15:00	5.50	0.80					
6/4/03	21:30:00	5.80	0.85					
6/4/03	21:45:00	5.70	0.83					
6/4/03	22:00:00	5.80	0.85					
6/4/03	22:15:00	5.30	0.77					
6/4/03	22:30:00	5.90	0.86					
6/4/03	22:45:00	6.30	0.92					
6/4/03	23:00:00	6.90	1.01					
6/4/03	23:15:00	6.80	0.99					
6/4/03	23:30:00	6.90	1.01					
6/4/03	23:45:00	6.60	0.96					
6/5/03	0:00:00	6.50	0.95					
	AVG =	6.84						

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Table H2.9.
Survey Station LDA-1

APPENDIX H3

Daily Maximum DO Values

Table H3.1.Continuous Data Used for BkC-1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	0:00:00	1.80	0.78					
6/4/03	0:15:00	1.70	0.74					
6/4/03	0:30:00	1.90	0.83					
6/4/03	0:45:00	1.60	0.70					
6/4/03	1:00:00	1.80	0.78					
6/4/03	1:15:00	1.80	0.78					
6/4/03	1:30:00	1.60	0.70					
6/4/03	1:45:00	1.40	0.61					
6/4/03	2:00:00	1.60	0.70					
6/4/03	2:15:00	1.60	0.70					
6/4/03	2:30:00	1.60	0.70					
6/4/03	2:45:00	1.50	0.65					
6/4/03	3:00:00	1.50	0.65					
6/4/03	3:15:00	1.50	0.65					
6/4/03	3:30:00	1.50	0.65					
6/4/03	3:45:00	1.40	0.61					
6/4/03	4:00:00	1.20	0.52					
6/4/03	4:15:00	1.20	0.52					
6/4/03	4:30:00	1.10	0.48					
6/4/03	4:45:00	0.90	0.39					
6/4/03	5:00:00	1.10	0.48					
6/4/03	5:15:00	1.10	0.48					
6/4/03	5:30:00	0.90	0.39					
6/4/03	5:45:00	0.90	0.39					
6/4/03	6:00:00	0.80	0.35					
6/4/03	6:15:00	0.80	0.35					
6/4/03	6:30:00	0.70	0.30					
6/4/03	6:45:00	0.80	0.35					
6/4/03	7:00:00	0.70	0.30					
6/4/03	7:15:00	0.70	0.30					
6/4/03	7:30:00	0.60	0.26					
6/4/03	7:45:00	0.50	0.22					
6/4/03	8:00:00	0.70	0.30					
6/4/03	8:15:00	2.20	0.96					
6/4/03	8:30:00	1.90	0.83					
6/4/03	8:45:00	1.10	0.48					
6/4/03	9:00:00	1.60	0.70					
6/4/03	9:15:00	1.70	0.74					
6/4/03	9:30:00	2.00	0.87					
6/4/03	9:45:00	1.90	0.83	BkC-2	6/4/03	948	1.2	1.45
6/4/03	10:00:00	2.00	0.87					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	10:15:00	1.90	0.83					
6/4/03	10:30:00	1.80	0.78					
6/4/03	10:45:00	1.80	0.78					
6/4/03	11:00:00	1.60	0.70					
6/4/03	11:15:00	2.10	0.91					
6/4/03	11:30:00	2.00	0.87					
6/4/03	11:45:00	2.10	0.91					
6/4/03	12:00:00	1.40	0.61					
6/4/03	12:15:00	1.60	0.70					
6/4/03	12:30:00	1.60	0.70					
6/4/03	12:45:00	1.50	0.65					
6/4/03	13:00:00	1.60	0.70					
6/4/03	13:15:00	1.60	0.70					
6/4/03	13:30:00	1.40	0.61					
6/4/03	13:45:00	2.30	1.00					
6/4/03	14:00:00	1.90	0.83					
6/4/03	14:15:00	1.60	0.70					
6/4/03	14:30:00	1.60	0.70					
6/4/03	14:45:00	1.60	0.70					
6/4/03	15:00:00	1.70	0.74					
6/4/03	15:15:00	2.00	0.87					
6/4/03	15:30:00	2.00	0.87					
6/4/03	15:45:00	1.90	0.83					
6/4/03	16:00:00	1.70	0.74					
6/4/03	16:15:00	1.50	0.65					
6/4/03	16:30:00	1.50	0.65					
6/4/03	16:45:00	1.20	0.52					
6/4/03	17:00:00	1.40	0.61					
6/4/03	17:15:00	1.20	0.52					
6/4/03	17:30:00	1.60	0.70					
6/4/03	17:45:00	1.50	0.65					
6/4/03	18:00:00	1.60	0.70					
6/4/03	18:15:00	1.50	0.65					
6/4/03	18:30:00	1.60	0.70					
6/4/03	18:45:00	1.80	0.78					
6/4/03	19:00:00	1.70	0.74					
6/4/03	19:15:00	1.60	0.70					
6/4/03	19:30:00	2.00	0.87					
6/4/03	19:45:00	1.80	0.78					
6/4/03	20:00:00	1.70	0.74					
6/4/03	20:15:00	1.40	0.61					
6/4/03	20:30:00	1.50	0.65					
6/4/03	20:45:00	1.40	0.61					

Table H3.1.
Survey Station BkC-1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	21:00:00	1.80	0.78					
6/4/03	21:15:00	1.60	0.70					
6/4/03	21:30:00	2.00	0.87					
6/4/03	21:45:00	2.00	0.87					
6/4/03	22:00:00	1.20	0.52					
6/4/03	22:15:00	1.40	0.61					
6/4/03	22:30:00	1.80	0.78					
6/4/03	22:45:00	1.20	0.52					
6/4/03	23:00:00	1.50	0.65					
6/4/03	23:15:00	0.90	0.39					
6/4/03	23:30:00	1.00	0.43					
6/4/03	23:45:00	0.80	0.35					
6/5/03	0:00:00	1.50	0.65					
	MAX =	2.30						

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Table H3.1.
Survey Station BkC-1

Table H3.2.Continuous Data Used for BV-1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	0:00:00	3.00	1.00					
6/4/03	0:15:00	3.00	1.00					
6/4/03	0:30:00	2.90	0.97					
6/4/03	0:45:00	2.90	0.97					
6/4/03	1:00:00	2.90	0.97					
6/4/03	1:15:00	2.90	0.97					
6/4/03	1:30:00	2.80	0.93					
6/4/03	1:45:00	2.80	0.93					
6/4/03	2:00:00	2.80	0.93					
6/4/03	2:15:00	2.70	0.90					
6/4/03	2:30:00	2.70	0.90					
6/4/03	2:45:00	2.60	0.87					
6/4/03	3:00:00	2.60	0.87					
6/4/03	3:15:00	2.50	0.83					
6/4/03	3:30:00	2.50	0.83					
6/4/03	3:45:00	2.40	0.80					
6/4/03	4:00:00	2.40	0.80					
6/4/03	4:15:00	2.30	0.77					
6/4/03	4:30:00	2.20	0.73					
6/4/03	4:45:00	2.10	0.70					
6/4/03	5:00:00	2.10	0.70					
6/4/03	5:15:00	2.00	0.67					
6/4/03	5:30:00	1.90	0.63					
6/4/03	5:45:00	1.80	0.60					
6/4/03	6:00:00	1.80	0.60					
6/4/03	6:15:00	1.70	0.57					
6/4/03	6:30:00	1.70	0.57					
6/4/03	6:45:00	1.60	0.53					
6/4/03	7:00:00	1.50	0.50					
6/4/03	7:15:00	1.50	0.50					
6/4/03	7:30:00	1.40	0.47					
6/4/03	7:45:00	1.40	0.47					
6/4/03	8:00:00	1.30	0.43					
6/4/03	8:15:00	1.30	0.43					
6/4/03	8:30:00	1.30	0.43					
6/4/03	8:45:00	1.30	0.43					
6/4/03	9:00:00	1.30	0.43					
6/4/03	9:15:00	1.30	0.43					
6/4/03	9:30:00	1.30	0.43					
6/4/03	9:45:00	1.40	0.47					
6/4/03	10:00:00	1.40	0.47	BV-2	6/4/03	1005	2.12	4.54

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	10:15:00	1.50	0.50					
6/4/03	10:30:00	1.40	0.47					
6/4/03	10:45:00	1.60	0.53					
6/4/03	11:00:00	1.50	0.50					
6/4/03	11:15:00	1.50	0.50					
6/4/03	11:30:00	1.60	0.53					
6/4/03	11:45:00	1.20	0.40					
6/4/03	12:00:00	1.60	0.53					
6/4/03	12:15:00	1.70	0.57					
6/4/03	12:30:00	1.50	0.50					
6/4/03	12:45:00	1.90	0.63					
6/4/03	13:00:00	2.00	0.67					
6/4/03	13:15:00	1.40	0.47					
6/4/03	13:30:00	2.70	0.90					
6/4/03	13:45:00	2.00	0.67					
6/4/03	14:00:00	1.60	0.53					
6/4/03	14:15:00	1.60	0.53					
6/4/03	14:30:00	1.70	0.57					
6/4/03	14:45:00	2.00	0.67					
6/4/03	15:00:00	1.80	0.60					
6/4/03	15:15:00	2.20	0.73					
6/4/03	15:30:00	2.10	0.70					
6/4/03	15:45:00	2.20	0.73					
6/4/03	16:00:00	2.10	0.70					
6/4/03	16:15:00	2.40	0.80					
6/4/03	16:30:00	2.70	0.90					
6/4/03	16:45:00	2.90	0.97					
6/4/03	17:00:00	2.80	0.93					
6/4/03	17:15:00	2.50	0.83					
6/4/03	17:30:00	3.00	1.00					
6/4/03	17:45:00	2.70	0.90					
6/4/03	18:00:00	2.60	0.87					
6/4/03	18:15:00	2.80	0.93					
6/4/03	18:30:00	2.80	0.93					
6/4/03	18:45:00	2.70	0.90					
6/4/03	19:00:00	2.60	0.87					
6/4/03	19:15:00	2.50	0.83					
6/4/03	19:30:00	2.30	0.77					
6/4/03	19:45:00	2.70	0.90					
6/4/03	20:00:00	2.50	0.83					
6/4/03	20:15:00	2.40	0.80					
6/4/03	20:30:00	2.40	0.80					
6/4/03	20:45:00	2.40	0.80					

Table H3.2.
Survey Station BV-1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	21:00:00	2.40	0.80					
6/4/03	21:15:00	2.50	0.83					
6/4/03	21:30:00	2.40	0.80					
6/4/03	21:45:00	2.40	0.80					
6/4/03	22:00:00	2.40	0.80					
6/4/03	22:15:00	2.30	0.77					
6/4/03	22:30:00	2.40	0.80					
6/4/03	22:45:00	2.30	0.77					
6/4/03	23:00:00	2.40	0.80					
6/4/03	23:15:00	2.30	0.77					
6/4/03	23:30:00	2.20	0.73					
6/4/03	23:45:00	2.30	0.77					
6/5/03	0:00:00	2.20	0.73					
	MAX =	3.00						

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Table H3.2.
Survey Station BV-1

Table H3.3.Continuous Data Used for BCi-2

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	0:00:00	2.60	0.50					
6/4/03	0:15:00	2.60	0.50					
6/4/03	0:30:00	2.40	0.46					
6/4/03	0:45:00	2.50	0.48					
6/4/03	1:00:00	2.40	0.46					
6/4/03	1:15:00	2.50	0.48					
6/4/03	1:30:00	2.40	0.46					
6/4/03	1:45:00	2.40	0.46					
6/4/03	2:00:00	2.40	0.46					
6/4/03	2:15:00	2.20	0.42					
6/4/03	2:30:00	2.10	0.40					
6/4/03	2:45:00	2.10	0.40					
6/4/03	3:00:00	2.30	0.44					
6/4/03	3:15:00	2.30	0.44					
6/4/03	3:30:00	2.00	0.38					
6/4/03	3:45:00	2.00	0.38					
6/4/03	4:00:00	2.10	0.40					
6/4/03	4:15:00	2.40	0.46					
6/4/03	4:30:00	1.90	0.37					
6/4/03	4:45:00	2.00	0.38					
6/4/03	5:00:00	2.10	0.40					
6/4/03	5:15:00	1.90	0.37					
6/4/03	5:30:00	2.00	0.38					
6/4/03	5:45:00	1.90	0.37					
6/4/03	6:00:00	1.70	0.33					
6/4/03	6:15:00	1.80	0.35					
6/4/03	6:30:00	1.80	0.35					
6/4/03	6:45:00	1.80	0.35					
6/4/03	7:00:00	1.80	0.35					
6/4/03	7:15:00	1.90	0.37					
6/4/03	7:30:00	1.80	0.35					
6/4/03	7:45:00	1.60	0.31					
6/4/03	8:00:00	1.60	0.31					
6/4/03	8:15:00	1.60	0.31					
6/4/03	8:30:00	1.70	0.33					
6/4/03	8:45:00	1.50	0.29					
6/4/03	9:00:00	1.40	0.27					
6/4/03	9:15:00	1.40	0.27					
6/4/03	9:30:00	1.60	0.31					
6/4/03	9:45:00	1.20	0.23					
6/4/03	10:00:00	1.20	0.23					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	10:15:00	1.40	0.27					
6/4/03	10:30:00	1.50	0.29					
6/4/03	10:45:00	1.30	0.25					
6/4/03	11:00:00	1.20	0.23	BCi-1	6/4/03	1110	1.1	4.77
6/4/03	11:15:00	1.20	0.23					
6/4/03	11:30:00	1.50	0.29					
6/4/03	11:45:00	2.10	0.40	BCi-3	6/4/03	1140	2.88	7.13
6/4/03	12:00:00	1.60	0.31					
6/4/03	12:15:00	1.80	0.35					
6/4/03	12:30:00	1.90	0.37					
6/4/03	12:45:00	2.20	0.42					
6/4/03	13:00:00	2.20	0.42					
6/4/03	13:15:00	2.10	0.40					
6/4/03	13:30:00	2.00	0.38					
6/4/03	13:45:00	2.00	0.38					
6/4/03	14:00:00	2.20	0.42					
6/4/03	14:15:00	2.40	0.46					
6/4/03	14:30:00	2.80	0.54					
6/4/03	14:45:00	3.00	0.58					
6/4/03	15:00:00	3.10	0.60					
6/4/03	15:15:00	2.90	0.56					
6/4/03	15:30:00	3.20	0.62					
6/4/03	15:45:00	3.20	0.62					
6/4/03	16:00:00	3.30	0.63					
6/4/03	16:15:00	3.60	0.69					
6/4/03	16:30:00	3.50	0.67					
6/4/03	16:45:00	3.60	0.69					
6/4/03	17:00:00	3.60	0.69					
6/4/03	17:15:00	3.50	0.67					
6/4/03	17:30:00	3.30	0.63					
6/4/03	17:45:00	3.30	0.63					
6/4/03	18:00:00	3.20	0.62					
6/4/03	18:15:00	3.20	0.62					
6/4/03	18:30:00	3.20	0.62					
6/4/03	18:45:00	3.70	0.71					
6/4/03	19:00:00	4.40	0.85					
6/4/03	19:15:00	4.80	0.92					
6/4/03	19:30:00	4.50	0.87					
6/4/03	19:45:00	5.20	1.00					
6/4/03	20:00:00	3.90	0.75					
6/4/03	20:15:00	4.10	0.79					
6/4/03	20:30:00	4.30	0.83					
6/4/03	20:45:00	4.10	0.79					

Table H3.3.
Survey Station BCi-2

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	21:00:00	3.80	0.73					
6/4/03	21:15:00	3.80	0.73					
6/4/03	21:30:00	3.80	0.73					
6/4/03	21:45:00	3.80	0.73					
6/4/03	22:00:00	3.70	0.71					
6/4/03	22:15:00	3.70	0.71					
6/4/03	22:30:00	3.60	0.69					
6/4/03	22:45:00	3.50	0.67					
6/4/03	23:00:00	3.50	0.67					
6/4/03	23:15:00	3.50	0.67					
6/4/03	23:30:00	3.40	0.65					
6/4/03	23:45:00	3.30	0.63					
6/5/03	0:00:00	3.30	0.63					
	MAX =	5.20						

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Table H3.3.
Survey Station BCi-2

Table H3.4.Continuous Data Used for BCi-4

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	0:00:00	3.20	0.86					
6/4/03	0:15:00	3.10	0.84					
6/4/03	0:30:00	3.10	0.84					
6/4/03	0:45:00	3.00	0.81					
6/4/03	1:00:00	3.00	0.81					
6/4/03	1:15:00	2.90	0.78					
6/4/03	1:30:00	2.90	0.78					
6/4/03	1:45:00	2.80	0.76					
6/4/03	2:00:00	2.80	0.76					
6/4/03	2:15:00	2.80	0.76					
6/4/03	2:30:00	2.60	0.70					
6/4/03	2:45:00	2.60	0.70					
6/4/03	3:00:00	2.60	0.70					
6/4/03	3:15:00	2.50	0.68					
6/4/03	3:30:00	2.40	0.65					
6/4/03	3:45:00	2.40	0.65					
6/4/03	4:00:00	2.30	0.62					
6/4/03	4:15:00	2.30	0.62					
6/4/03	4:30:00	2.20	0.59					
6/4/03	4:45:00	2.20	0.59					
6/4/03	5:00:00	2.10	0.57					
6/4/03	5:15:00	2.10	0.57					
6/4/03	5:30:00	2.10	0.57					
6/4/03	5:45:00	2.00	0.54					
6/4/03	6:00:00	2.00	0.54					
6/4/03	6:15:00	2.00	0.54					
6/4/03	6:30:00	2.00	0.54					
6/4/03	6:45:00	2.00	0.54					
6/4/03	7:00:00	1.90	0.51					
6/4/03	7:15:00	1.90	0.51					
6/4/03	7:30:00	1.90	0.51					
6/4/03	7:45:00	1.80	0.49					
6/4/03	8:00:00	1.80	0.49					
6/4/03	8:15:00	1.90	0.51					
6/4/03	8:30:00	1.80	0.49					
6/4/03	8:45:00	1.90	0.51					
6/4/03	9:00:00	1.80	0.49					
6/4/03	9:15:00	1.90	0.51					
6/4/03	9:30:00	2.10	0.57					
6/4/03	9:45:00	2.00	0.54					
6/4/03	10:00:00	2.00	0.54					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	10:15:00	2.00	0.54					
6/4/03	10:30:00	2.00	0.54					
6/4/03	10:45:00	2.00	0.54					
6/4/03	11:00:00	1.90	0.51					
6/4/03	11:15:00	2.00	0.54					
6/4/03	11:30:00	1.80	0.49					
6/4/03	11:45:00	1.90	0.51					
6/4/03	12:00:00	1.80	0.49					
6/4/03	12:15:00	2.00	0.54					
6/4/03	12:30:00	2.00	0.54					
6/4/03	12:45:00	1.90	0.51					
6/4/03	13:00:00	1.80	0.49					
6/4/03	13:15:00	1.90	0.51	BCi-5	6/4/03	1310	2.87	5.59
6/4/03	13:30:00	2.20	0.59					
6/4/03	13:45:00	2.10	0.57					
6/4/03	14:00:00	2.00	0.54					
6/4/03	14:15:00	2.00	0.54					
6/4/03	14:30:00	2.10	0.57					
6/4/03	14:45:00	2.10	0.57					
6/4/03	15:00:00	2.90	0.78					
6/4/03	15:15:00	2.60	0.70					
6/4/03	15:30:00	2.40	0.65					
6/4/03	15:45:00	2.40	0.65					
6/4/03	16:00:00	2.90	0.78					
6/4/03	16:15:00	3.20	0.86					
6/4/03	16:30:00	3.50	0.95					
6/4/03	16:45:00	3.10	0.84					
6/4/03	17:00:00	3.30	0.89					
6/4/03	17:15:00	3.40	0.92					
6/4/03	17:30:00	3.50	0.95					
6/4/03	17:45:00	3.70	1.00					
6/4/03	18:00:00	3.70	1.00					
6/4/03	18:15:00	3.20	0.86					
6/4/03	18:30:00	3.20	0.86					
6/4/03	18:45:00	3.20	0.86					
6/4/03	19:00:00	3.40	0.92					
6/4/03	19:15:00	3.20	0.86					
6/4/03	19:30:00	3.30	0.89					
6/4/03	19:45:00	3.30	0.89					
6/4/03	20:00:00	3.20	0.86					
6/4/03	20:15:00	3.20	0.86					
6/4/03	20:30:00	3.30	0.89					
6/4/03	20:45:00	3.30	0.89					

Table H3.4.
Survey Station BCi-4

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	21:00:00	3.20	0.86					
6/4/03	21:15:00	3.10	0.84					
6/4/03	21:30:00	3.10	0.84					
6/4/03	21:45:00	3.10	0.84					
6/4/03	22:00:00	3.00	0.81					
6/4/03	22:15:00	3.00	0.81					
6/4/03	22:30:00	3.00	0.81					
6/4/03	22:45:00	2.90	0.78					
6/4/03	23:00:00	2.90	0.78					
6/4/03	23:15:00	2.90	0.78					
6/4/03	23:30:00	2.90	0.78					
6/4/03	23:45:00	2.90	0.78					
6/5/03	0:00:00	2.90	0.78					
	MAX =	3.70						

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Table H3.4.
Survey Station BCi-4

Table H3.5.Continuous Data Used for BCi-7

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	0:00:00	3.20	0.89					
6/4/03	0:15:00	3.20	0.89					
6/4/03	0:30:00	3.20	0.89					
6/4/03	0:45:00	3.10	0.86					
6/4/03	1:00:00	3.10	0.86					
6/4/03	1:15:00	3.00	0.83					
6/4/03	1:30:00	3.00	0.83					
6/4/03	1:45:00	3.00	0.83					
6/4/03	2:00:00	2.90	0.81					
6/4/03	2:15:00	2.90	0.81					
6/4/03	2:30:00	2.90	0.81					
6/4/03	2:45:00	2.90	0.81					
6/4/03	3:00:00	2.80	0.78					
6/4/03	3:15:00	2.80	0.78					
6/4/03	3:30:00	2.80	0.78					
6/4/03	3:45:00	2.80	0.78					
6/4/03	4:00:00	2.80	0.78					
6/4/03	4:15:00	2.70	0.75					
6/4/03	4:30:00	2.70	0.75					
6/4/03	4:45:00	2.70	0.75					
6/4/03	5:00:00	2.70	0.75					
6/4/03	5:15:00	2.60	0.72					
6/4/03	5:30:00	2.70	0.75					
6/4/03	5:45:00	2.60	0.72					
6/4/03	6:00:00	2.50	0.69					
6/4/03	6:15:00	2.60	0.72					
6/4/03	6:30:00	2.50	0.69					
6/4/03	6:45:00	2.50	0.69					
6/4/03	7:00:00	2.50	0.69					
6/4/03	7:15:00	2.40	0.67					
6/4/03	7:30:00	2.30	0.64					
6/4/03	7:45:00	2.40	0.67					
6/4/03	8:00:00	2.30	0.64					
6/4/03	8:15:00	2.30	0.64					
6/4/03	8:30:00	2.30	0.64					
6/4/03	8:45:00	2.30	0.64					
6/4/03	9:00:00	2.20	0.61					
6/4/03	9:15:00	2.20	0.61					
6/4/03	9:30:00	2.20	0.61					
6/4/03	9:45:00	2.20	0.61					
6/4/03	10:00:00	2.00	0.56					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	10:15:00	2.00	0.56					
6/4/03	10:30:00	2.00	0.56					
6/4/03	10:45:00	2.00	0.56					
6/4/03	11:00:00	1.90	0.53					
6/4/03	11:15:00	2.00	0.56					
6/4/03	11:30:00	2.00	0.56					
6/4/03	11:45:00	2.00	0.56					
6/4/03	12:00:00	2.20	0.61					
6/4/03	12:15:00	2.20	0.61					
6/4/03	12:30:00	2.00	0.56					
6/4/03	12:45:00	2.10	0.58					
6/4/03	13:00:00	2.00	0.56	BCi-6	6/4/03	1300	4.36	7.85
6/4/03	13:15:00	2.00	0.56					
6/4/03	13:30:00	2.30	0.64					
6/4/03	13:45:00	2.30	0.64					
6/4/03	14:00:00	2.30	0.64					
6/4/03	14:15:00	2.10	0.58					
6/4/03	14:30:00	2.20	0.61					
6/4/03	14:45:00	2.40	0.67					
6/4/03	15:00:00	2.50	0.69					
6/4/03	15:15:00	2.80	0.78					
6/4/03	15:30:00	2.70	0.75					
6/4/03	15:45:00	3.10	0.86					
6/4/03	16:00:00	3.00	0.83					
6/4/03	16:15:00	3.10	0.86					
6/4/03	16:30:00	3.60	1.00					
6/4/03	16:45:00	3.40	0.94					
6/4/03	17:00:00	3.40	0.94					
6/4/03	17:15:00	3.60	1.00					
6/4/03	17:30:00	3.50	0.97					
6/4/03	17:45:00	3.40	0.94					
6/4/03	18:00:00	3.40	0.94					
6/4/03	18:15:00	3.40	0.94					
6/4/03	18:30:00	3.60	1.00					
6/4/03	18:45:00	3.60	1.00					
6/4/03	19:00:00	3.50	0.97					
6/4/03	19:15:00	3.50	0.97					
6/4/03	19:30:00	3.50	0.97					
6/4/03	19:45:00	3.50	0.97					
6/4/03	20:00:00	3.50	0.97					
6/4/03	20:15:00	3.50	0.97					
6/4/03	20:30:00	3.60	1.00					
6/4/03	20:45:00	3.60	1.00					

Table H3.5.
Survey Station BCi-7

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	21:00:00	3.60	1.00					
6/4/03	21:15:00	3.60	1.00					
6/4/03	21:30:00	3.60	1.00					
6/4/03	21:45:00	3.60	1.00					
6/4/03	22:00:00	3.60	1.00					
6/4/03	22:15:00	3.60	1.00					
6/4/03	22:30:00	3.50	0.97					
6/4/03	22:45:00	3.50	0.97					
6/4/03	23:00:00	3.40	0.94					
6/4/03	23:15:00	3.40	0.94					
6/4/03	23:30:00	3.30	0.92					
6/4/03	23:45:00	3.30	0.92					
6/5/03	0:00:00	3.30	0.92					
	MAX =	3.60						

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Table H3.5.
Survey Station BCi-7

Table H3.6.Continuous Data Used for BCh-2

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	0:00:00	3.00	1.00					
6/4/03	0:15:00	3.00	1.00					
6/4/03	0:30:00	2.90	0.97					
6/4/03	0:45:00	2.90	0.97					
6/4/03	1:00:00	2.90	0.97					
6/4/03	1:15:00	2.90	0.97					
6/4/03	1:30:00	2.80	0.93					
6/4/03	1:45:00	2.80	0.93					
6/4/03	2:00:00	2.80	0.93					
6/4/03	2:15:00	2.70	0.90					
6/4/03	2:30:00	2.70	0.90					
6/4/03	2:45:00	2.60	0.87					
6/4/03	3:00:00	2.60	0.87					
6/4/03	3:15:00	2.50	0.83					
6/4/03	3:30:00	2.50	0.83					
6/4/03	3:45:00	2.40	0.80					
6/4/03	4:00:00	2.40	0.80					
6/4/03	4:15:00	2.30	0.77					
6/4/03	4:30:00	2.20	0.73					
6/4/03	4:45:00	2.10	0.70					
6/4/03	5:00:00	2.10	0.70					
6/4/03	5:15:00	2.00	0.67					
6/4/03	5:30:00	1.90	0.63					
6/4/03	5:45:00	1.80	0.60					
6/4/03	6:00:00	1.80	0.60					
6/4/03	6:15:00	1.70	0.57					
6/4/03	6:30:00	1.70	0.57					
6/4/03	6:45:00	1.60	0.53					
6/4/03	7:00:00	1.50	0.50					
6/4/03	7:15:00	1.50	0.50					
6/4/03	7:30:00	1.40	0.47					
6/4/03	7:45:00	1.40	0.47					
6/4/03	8:00:00	1.30	0.43					
6/4/03	8:15:00	1.30	0.43	BCh-3	6/4/03	815	1.97	4.55
6/4/03	8:30:00	1.30	0.43					
6/4/03	8:45:00	1.30	0.43					
6/4/03	9:00:00	1.30	0.43					
6/4/03	9:15:00	1.30	0.43					
6/4/03	9:30:00	1.30	0.43					
6/4/03	9:45:00	1.40	0.47					
6/4/03	10:00:00	1.40	0.47	BCh-1	6/4/03	1000	1.39	2.98

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	10:15:00	1.50	0.50					
6/4/03	10:30:00	1.40	0.47					
6/4/03	10:45:00	1.60	0.53					
6/4/03	11:00:00	1.50	0.50					
6/4/03	11:15:00	1.50	0.50					
6/4/03	11:30:00	1.60	0.53					
6/4/03	11:45:00	1.20	0.40					
6/4/03	12:00:00	1.60	0.53					
6/4/03	12:15:00	1.70	0.57					
6/4/03	12:30:00	1.50	0.50					
6/4/03	12:45:00	1.90	0.63					
6/4/03	13:00:00	2.00	0.67					
6/4/03	13:15:00	1.40	0.47					
6/4/03	13:30:00	2.70	0.90					
6/4/03	13:45:00	2.00	0.67					
6/4/03	14:00:00	1.60	0.53					
6/4/03	14:15:00	1.60	0.53					
6/4/03	14:30:00	1.70	0.57					
6/4/03	14:45:00	2.00	0.67					
6/4/03	15:00:00	1.80	0.60					
6/4/03	15:15:00	2.20	0.73					
6/4/03	15:30:00	2.10	0.70					
6/4/03	15:45:00	2.20	0.73					
6/4/03	16:00:00	2.10	0.70					
6/4/03	16:15:00	2.40	0.80					
6/4/03	16:30:00	2.70	0.90					
6/4/03	16:45:00	2.90	0.97					
6/4/03	17:00:00	2.80	0.93					
6/4/03	17:15:00	2.50	0.83					
6/4/03	17:30:00	3.00	1.00					
6/4/03	17:45:00	2.70	0.90					
6/4/03	18:00:00	2.60	0.87					
6/4/03	18:15:00	2.80	0.93					
6/4/03	18:30:00	2.80	0.93					
6/4/03	18:45:00	2.70	0.90					
6/4/03	19:00:00	2.60	0.87					
6/4/03	19:15:00	2.50	0.83					
6/4/03	19:30:00	2.30	0.77					
6/4/03	19:45:00	2.70	0.90					
6/4/03	20:00:00	2.50	0.83					
6/4/03	20:15:00	2.40	0.80					
6/4/03	20:30:00	2.40	0.80					
6/4/03	20:45:00	2.40	0.80					

Table H3.6.
Survey Station BCH-2

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	21:00:00	2.40	0.80					
6/4/03	21:15:00	2.50	0.83					
6/4/03	21:30:00	2.40	0.80					
6/4/03	21:45:00	2.40	0.80					
6/4/03	22:00:00	2.40	0.80					
6/4/03	22:15:00	2.30	0.77					
6/4/03	22:30:00	2.40	0.80					
6/4/03	22:45:00	2.30	0.77					
6/4/03	23:00:00	2.40	0.80					
6/4/03	23:15:00	2.30	0.77					
6/4/03	23:30:00	2.20	0.73					
6/4/03	23:45:00	2.30	0.77					
6/5/03	0:00:00	2.20	0.73					
	MAX =	3.00						

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Table H3.6.
Survey Station BCH-2

Table H3.7.Continuous Data Used for BCh-4

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	0:00:00	2.60	0.55					
6/4/03	0:15:00	2.60	0.55					
6/4/03	0:30:00	2.60	0.55					
6/4/03	0:45:00	2.50	0.53					
6/4/03	1:00:00	2.50	0.53					
6/4/03	1:15:00	2.50	0.53					
6/4/03	1:30:00	2.40	0.51					
6/4/03	1:45:00	2.40	0.51					
6/4/03	2:00:00	2.40	0.51					
6/4/03	2:15:00	2.30	0.49					
6/4/03	2:30:00	2.30	0.49					
6/4/03	2:45:00	2.30	0.49					
6/4/03	3:00:00	2.30	0.49					
6/4/03	3:15:00	2.20	0.47					
6/4/03	3:30:00	2.20	0.47					
6/4/03	3:45:00	2.20	0.47					
6/4/03	4:00:00	2.20	0.47					
6/4/03	4:15:00	2.10	0.45					
6/4/03	4:30:00	2.10	0.45					
6/4/03	4:45:00	2.10	0.45					
6/4/03	5:00:00	2.10	0.45					
6/4/03	5:15:00	2.00	0.43					
6/4/03	5:30:00	2.00	0.43					
6/4/03	5:45:00	1.90	0.40					
6/4/03	6:00:00	1.90	0.40					
6/4/03	6:15:00	1.90	0.40					
6/4/03	6:30:00	1.80	0.38					
6/4/03	6:45:00	1.80	0.38					
6/4/03	7:00:00	1.80	0.38					
6/4/03	7:15:00	1.80	0.38					
6/4/03	7:30:00	1.80	0.38					
6/4/03	7:45:00	1.70	0.36					
6/4/03	8:00:00	1.70	0.36					
6/4/03	8:15:00	1.80	0.38					
6/4/03	8:30:00	1.80	0.38					
6/4/03	8:45:00	1.70	0.36					
6/4/03	9:00:00	2.00	0.43					
6/4/03	9:15:00	1.80	0.38					
6/4/03	9:30:00	1.90	0.40					
6/4/03	9:45:00	2.10	0.45					
6/4/03	10:00:00	2.40	0.51					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	10:15:00	2.30	0.49	BCh-5	6/4/03	1015	1.85	3.78
6/4/03	10:30:00	2.60	0.55					
6/4/03	10:45:00	2.20	0.47					
6/4/03	11:00:00	2.40	0.51					
6/4/03	11:15:00	2.80	0.60					
6/4/03	11:30:00	3.10	0.66					
6/4/03	11:45:00	3.90	0.83					
6/4/03	12:00:00	3.60	0.77					
6/4/03	12:15:00	3.20	0.68					
6/4/03	12:30:00	3.60	0.77					
6/4/03	12:45:00	2.80	0.60					
6/4/03	13:00:00	2.70	0.57					
6/4/03	13:15:00	2.70	0.57					
6/4/03	13:30:00	2.20	0.47					
6/4/03	13:45:00	3.10	0.66					
6/4/03	14:00:00	4.40	0.94					
6/4/03	14:15:00	3.30	0.70					
6/4/03	14:30:00	3.00	0.64					
6/4/03	14:45:00	3.70	0.79					
6/4/03	15:00:00	4.70	1.00					
6/4/03	15:15:00	4.50	0.96					
6/4/03	15:30:00	4.00	0.85					
6/4/03	15:45:00	3.60	0.77					
6/4/03	16:00:00	3.50	0.74					
6/4/03	16:15:00	4.40	0.94					
6/4/03	16:30:00	4.40	0.94					
6/4/03	16:45:00	4.40	0.94					
6/4/03	17:00:00	4.50	0.96					
6/4/03	17:15:00	4.40	0.94					
6/4/03	17:30:00	4.50	0.96					
6/4/03	17:45:00	4.40	0.94					
6/4/03	18:00:00	3.90	0.83					
6/4/03	18:15:00	3.70	0.79					
6/4/03	18:30:00	3.50	0.74					
6/4/03	18:45:00	3.30	0.70					
6/4/03	19:00:00	3.10	0.66					
6/4/03	19:15:00	3.30	0.70					
6/4/03	19:30:00	3.20	0.68					
6/4/03	19:45:00	3.10	0.66					
6/4/03	20:00:00	3.00	0.64					
6/4/03	20:15:00	2.90	0.62					
6/4/03	20:30:00	3.00	0.64					
6/4/03	20:45:00	3.00	0.64					

Table H3.7.
Survey Station BCh-4

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	21:00:00	2.60	0.55					
6/4/03	21:15:00	2.80	0.60					
6/4/03	21:30:00	2.70	0.57					
6/4/03	21:45:00	2.70	0.57					
6/4/03	22:00:00	2.70	0.57					
6/4/03	22:15:00	2.60	0.55					
6/4/03	22:30:00	2.60	0.55					
6/4/03	22:45:00	2.60	0.55					
6/4/03	23:00:00	2.50	0.53					
6/4/03	23:15:00	2.40	0.51					
6/4/03	23:30:00	2.50	0.53					
6/4/03	23:45:00	2.50	0.53					
6/5/03	0:00:00	2.40	0.51					
	MAX =	4.70						

VREUIL PDF\DO MAX CALCULATIONS-CHEVL.XLS

Table H3.7.
Survey Station BCh-4

Table H3.8.Continuous Data Used for BCh-6

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	0:00:00	2.50	0.38					
6/4/03	0:15:00	2.60	0.40					
6/4/03	0:30:00	2.20	0.34					
6/4/03	0:45:00	2.10	0.32					
6/4/03	1:00:00	2.00	0.31					
6/4/03	1:15:00	2.20	0.34					
6/4/03	1:30:00	2.40	0.37					
6/4/03	1:45:00	2.30	0.35					
6/4/03	2:00:00	2.10	0.32					
6/4/03	2:15:00	2.10	0.32					
6/4/03	2:30:00	2.00	0.31					
6/4/03	2:45:00	2.20	0.34					
6/4/03	3:00:00	2.20	0.34					
6/4/03	3:15:00	2.00	0.31					
6/4/03	3:30:00	2.00	0.31					
6/4/03	3:45:00	1.90	0.29					
6/4/03	4:00:00	1.90	0.29					
6/4/03	4:15:00	2.00	0.31					
6/4/03	4:30:00	2.10	0.32					
6/4/03	4:45:00	2.00	0.31					
6/4/03	5:00:00	1.90	0.29					
6/4/03	5:15:00	1.60	0.25					
6/4/03	5:30:00	1.90	0.29					
6/4/03	5:45:00	2.00	0.31					
6/4/03	6:00:00	1.90	0.29					
6/4/03	6:15:00	1.90	0.29					
6/4/03	6:30:00	2.00	0.31					
6/4/03	6:45:00	2.30	0.35					
6/4/03	7:00:00	2.50	0.38					
6/4/03	7:15:00	2.20	0.34					
6/4/03	7:30:00	1.90	0.29					
6/4/03	7:45:00	2.10	0.32					
6/4/03	8:00:00	2.10	0.32					
6/4/03	8:15:00	2.10	0.32					
6/4/03	8:30:00	2.20	0.34					
6/4/03	8:45:00	2.20	0.34					
6/4/03	9:00:00	2.30	0.35					
6/4/03	9:15:00	2.30	0.35					
6/4/03	9:30:00	2.10	0.32					
6/4/03	9:45:00	1.80	0.28					
6/4/03	10:00:00	1.90	0.29					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	10:15:00	2.00	0.31					
6/4/03	10:30:00	2.00	0.31					
6/4/03	10:45:00	1.90	0.29					
6/4/03	11:00:00	1.80	0.28					
6/4/03	11:15:00	1.80	0.28					
6/4/03	11:30:00	1.80	0.28					
6/4/03	11:45:00	1.80	0.28					
6/4/03	12:00:00	2.20	0.34					
6/4/03	12:15:00	2.00	0.31					
6/4/03	12:30:00	2.20	0.34					
6/4/03	12:45:00	1.70	0.26					
6/4/03	13:00:00	1.80	0.28					
6/4/03	13:15:00	2.20	0.34					
6/4/03	13:30:00	1.90	0.29					
6/4/03	13:45:00	1.70	0.26					
6/4/03	14:00:00	2.20	0.34					
6/4/03	14:15:00	1.80	0.28					
6/4/03	14:30:00	2.00	0.31					
6/4/03	14:45:00	1.90	0.29					
6/4/03	15:00:00	3.30	0.51					
6/4/03	15:15:00	2.70	0.42					
6/4/03	15:30:00	3.60	0.55					
6/4/03	15:45:00	3.30	0.51					
6/4/03	16:00:00	2.50	0.38					
6/4/03	16:15:00	3.00	0.46					
6/4/03	16:30:00	3.70	0.57					
6/4/03	16:45:00	3.10	0.48					
6/4/03	17:00:00	3.90	0.60					
6/4/03	17:15:00	3.10	0.48					
6/4/03	17:30:00	3.50	0.54					
6/4/03	17:45:00	4.10	0.63					
6/4/03	18:00:00	6.50	1.00					
6/4/03	18:15:00	3.90	0.60					
6/4/03	18:30:00	3.60	0.55					
6/4/03	18:45:00	2.60	0.40					
6/4/03	19:00:00	3.80	0.58					
6/4/03	19:15:00	4.10	0.63					
6/4/03	19:30:00	3.70	0.57					
6/4/03	19:45:00	3.10	0.48					
6/4/03	20:00:00	2.70	0.42					
6/4/03	20:15:00	2.80	0.43					
6/4/03	20:30:00	2.70	0.42					
6/4/03	20:45:00	2.80	0.43					

Table H3.8.
Survey Station BCh-6

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	21:00:00	3.20	0.49					
6/4/03	21:15:00	2.90	0.45					
6/4/03	21:30:00	2.80	0.43					
6/4/03	21:45:00	2.80	0.43					
6/4/03	22:00:00	2.50	0.38					
6/4/03	22:15:00	2.70	0.42					
6/4/03	22:30:00	2.50	0.38					
6/4/03	22:45:00	2.40	0.37					
6/4/03	23:00:00	2.50	0.38					
6/4/03	23:15:00	2.60	0.40					
6/4/03	23:30:00	2.60	0.40					
6/4/03	23:45:00	2.80	0.43					
6/5/03	0:00:00	2.60	0.40					
	MAX =	6.50						

VREUIL PDF\DO MAX CALCULATIONS-CHEVL.XLS

Table H3.8.
Survey Station BCh-6

Table H3.9.Continuous Data Used for LDA-1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	0:00:00	5.80	0.62					
6/4/03	0:15:00	5.80	0.62					
6/4/03	0:30:00	5.30	0.57					
6/4/03	0:45:00	5.00	0.54					
6/4/03	1:00:00	5.60	0.60					
6/4/03	1:15:00	5.30	0.57					
6/4/03	1:30:00	5.20	0.56					
6/4/03	1:45:00	5.00	0.54					
6/4/03	2:00:00	5.30	0.57					
6/4/03	2:15:00	5.80	0.62					
6/4/03	2:30:00	5.70	0.61					
6/4/03	2:45:00	5.90	0.63					
6/4/03	3:00:00	4.60	0.49					
6/4/03	3:15:00	4.70	0.51					
6/4/03	3:30:00	5.00	0.54					
6/4/03	3:45:00	4.10	0.44					
6/4/03	4:00:00	4.60	0.49					
6/4/03	4:15:00	5.30	0.57					
6/4/03	4:30:00	5.00	0.54					
6/4/03	4:45:00	5.50	0.59					
6/4/03	5:00:00	4.90	0.53					
6/4/03	5:15:00	5.20	0.56					
6/4/03	5:30:00	5.50	0.59					
6/4/03	5:45:00	6.20	0.67					
6/4/03	6:00:00	6.70	0.72					
6/4/03	6:15:00	6.40	0.69					
6/4/03	6:30:00	6.60	0.71					
6/4/03	6:45:00	6.60	0.71					
6/4/03	7:00:00	6.60	0.71					
6/4/03	7:15:00	6.60	0.71					
6/4/03	7:30:00	6.60	0.71					
6/4/03	7:45:00	6.60	0.71					
6/4/03	8:00:00	6.60	0.71					
6/4/03	8:15:00	6.70	0.72					
6/4/03	8:30:00	6.80	0.73					
6/4/03	8:45:00	6.70	0.72					
6/4/03	9:00:00	6.80	0.73					
6/4/03	9:15:00	6.70	0.72					
6/4/03	9:30:00	6.80	0.73					
6/4/03	9:45:00	6.60	0.71					
6/4/03	10:00:00	6.90	0.74					

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	10:15:00	6.80	0.73					
6/4/03	10:30:00	6.60	0.71					
6/4/03	10:45:00	7.70	0.83					
6/4/03	11:00:00	6.70	0.72					
6/4/03	11:15:00	7.30	0.78					
6/4/03	11:30:00	8.00	0.86					
6/4/03	11:45:00	8.60	0.92					
6/4/03	12:00:00	8.50	0.91					
6/4/03	12:15:00	7.30	0.78					
6/4/03	12:30:00	7.90	0.85					
6/4/03	12:45:00	8.60	0.92					
6/4/03	13:00:00	9.30	1.00					
6/4/03	13:15:00	9.20	0.99					
6/4/03	13:30:00	9.10	0.98					
6/4/03	13:45:00	9.20	0.99					
6/4/03	14:00:00	9.20	0.99					
6/4/03	14:15:00	8.90	0.96					
6/4/03	14:30:00	8.90	0.96					
6/4/03	14:45:00	8.80	0.95					
6/4/03	15:00:00	8.90	0.96					
6/4/03	15:15:00	8.70	0.94					
6/4/03	15:30:00	8.70	0.94					
6/4/03	15:45:00	8.90	0.96					
6/4/03	16:00:00	8.80	0.95					
6/4/03	16:15:00	8.80	0.95					
6/4/03	16:30:00	8.60	0.92					
6/4/03	16:45:00	8.00	0.86					
6/4/03	17:00:00	8.10	0.87					
6/4/03	17:15:00	7.70	0.83					
6/4/03	17:30:00	7.60	0.82					
6/4/03	17:45:00	7.40	0.80					
6/4/03	18:00:00	7.30	0.78					
6/4/03	18:15:00	7.80	0.84					
6/4/03	18:30:00	7.30	0.78					
6/4/03	18:45:00	6.70	0.72					
6/4/03	19:00:00	8.30	0.89					
6/4/03	19:15:00	8.40	0.90					
6/4/03	19:30:00	7.30	0.78					
6/4/03	19:45:00	7.40	0.80					
6/4/03	20:00:00	6.20	0.67					
6/4/03	20:15:00	5.90	0.63					
6/4/03	20:30:00	6.60	0.71					
6/4/03	20:45:00	7.10	0.76					

Table H3.9.
Survey Station LDA-1

Continuous Monitoring Data				Instantaneous Data				
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX	Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
6/4/03	21:00:00	7.00	0.75					
6/4/03	21:15:00	5.50	0.59					
6/4/03	21:30:00	5.80	0.62					
6/4/03	21:45:00	5.70	0.61					
6/4/03	22:00:00	5.80	0.62					
6/4/03	22:15:00	5.30	0.57					
6/4/03	22:30:00	5.90	0.63					
6/4/03	22:45:00	6.30	0.68					
6/4/03	23:00:00	6.90	0.74					
6/4/03	23:15:00	6.80	0.73					
6/4/03	23:30:00	6.90	0.74					
6/4/03	23:45:00	6.60	0.71					
6/5/03	0:00:00	6.50	0.70					
	MAX =	9.30						

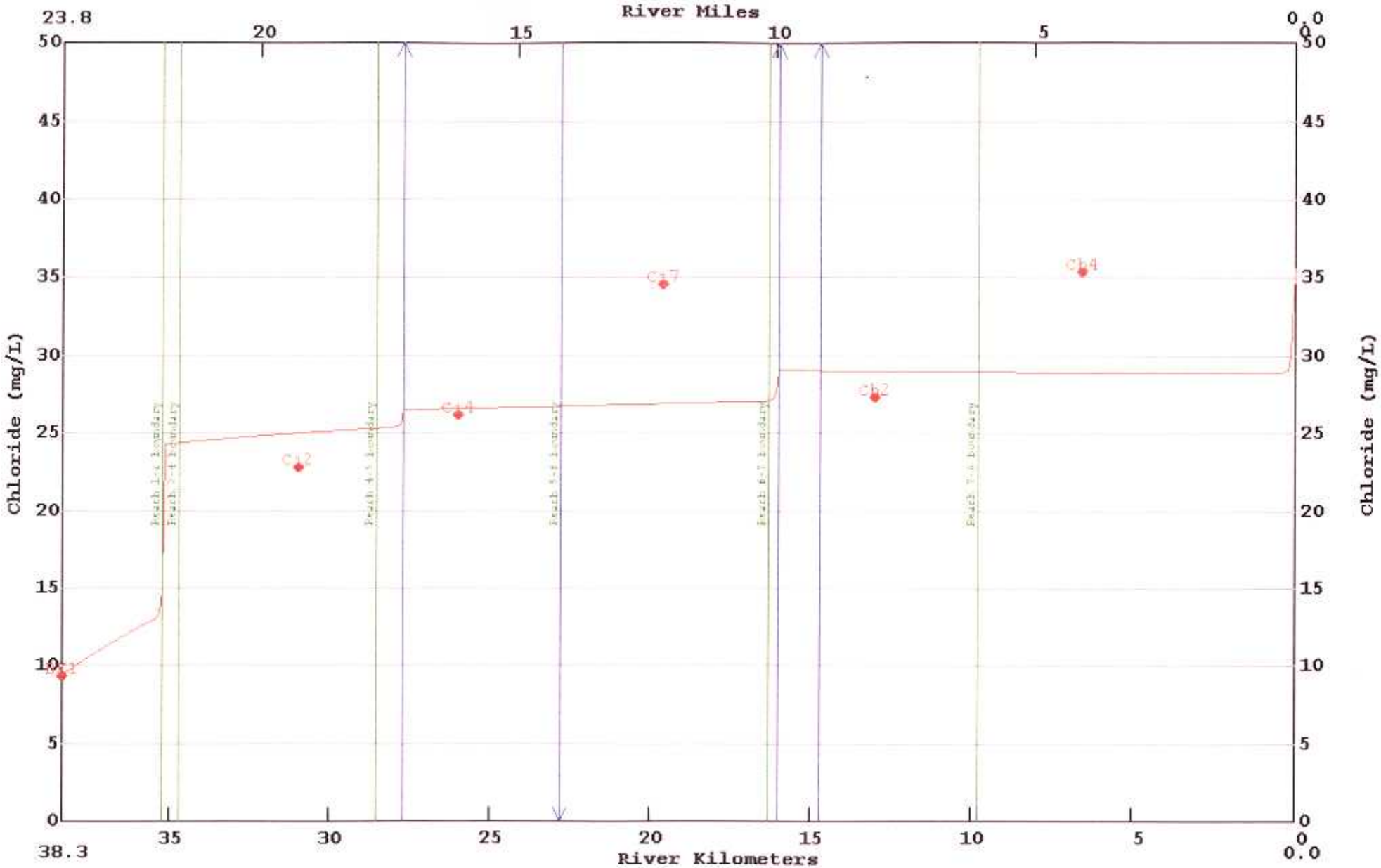
VREUIL PDF\DO MAX CALCULATIONS-CHEVL.XLS

Table H3.9.
Survey Station LDA-1

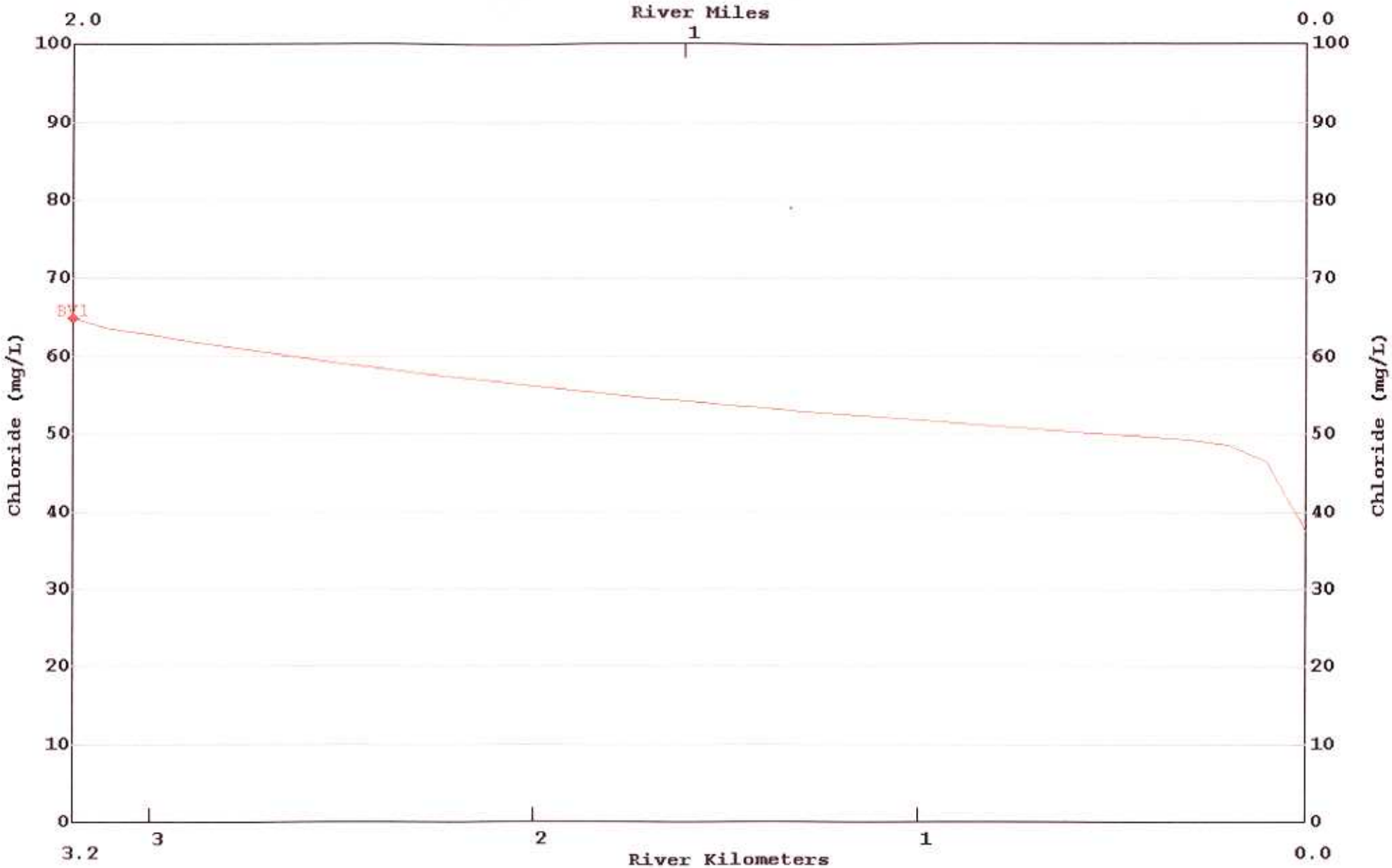
APPENDIX I

Simulation of Chloride and Conductivity

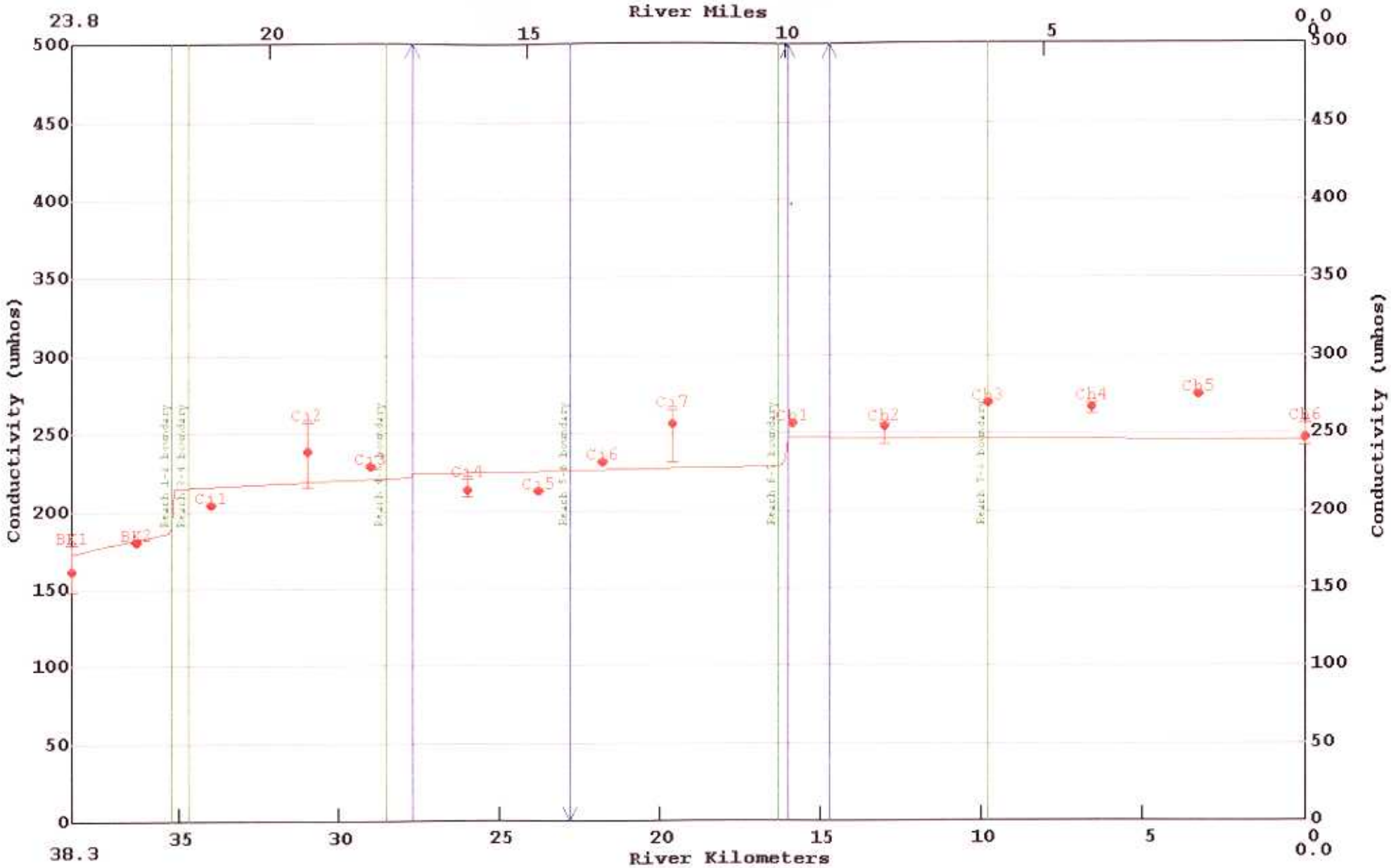
LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\calib\chev_cal7.txt
REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO min= 9.30 max= 35.53
Main Stem



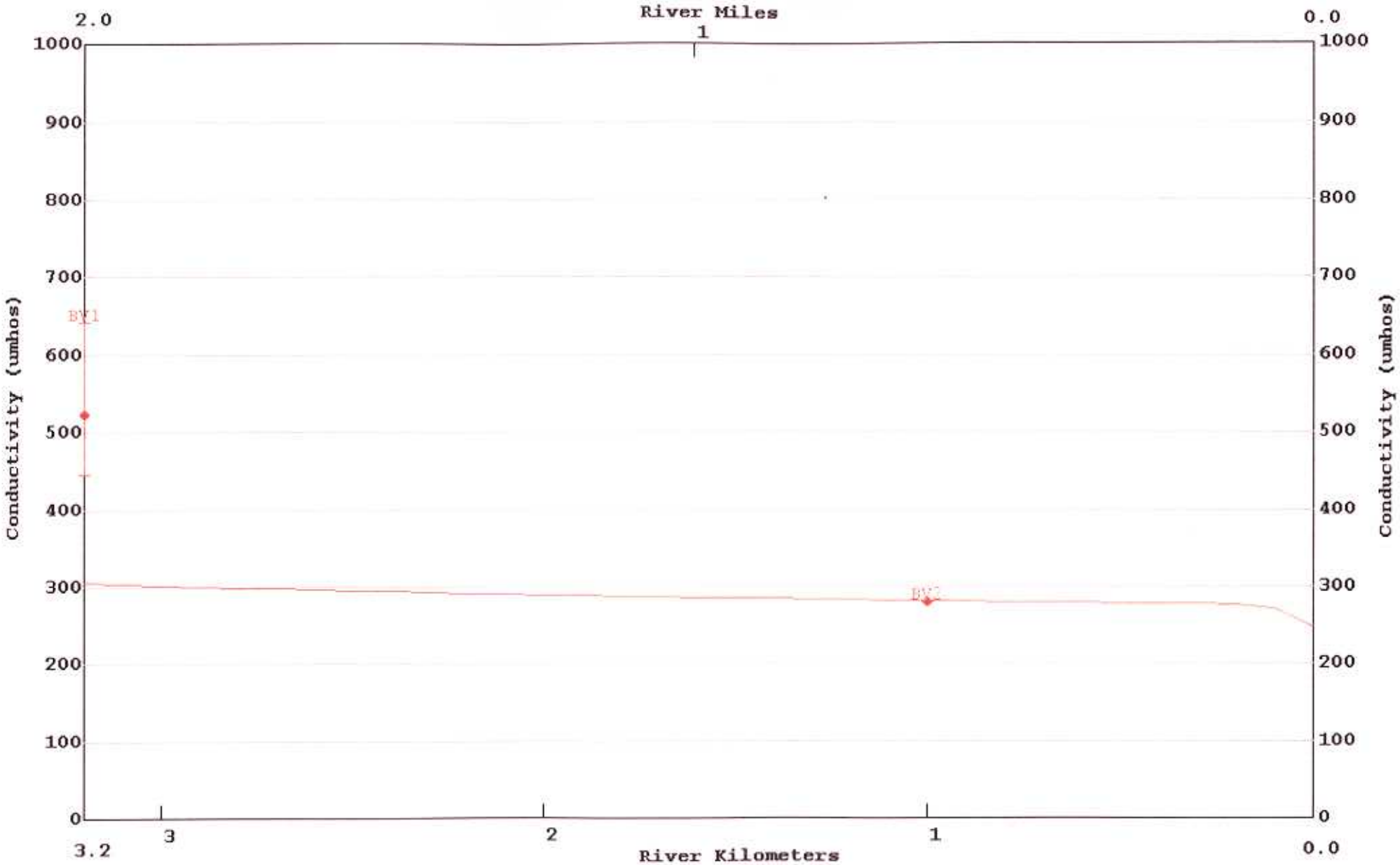
LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\calib\chev_cal7.txt
REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO min= 37.69 max= 64.90
Bayou Verret



LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\calib\chev_cal7.txt
REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO min= 172.00 max= 247.89
Main Stem



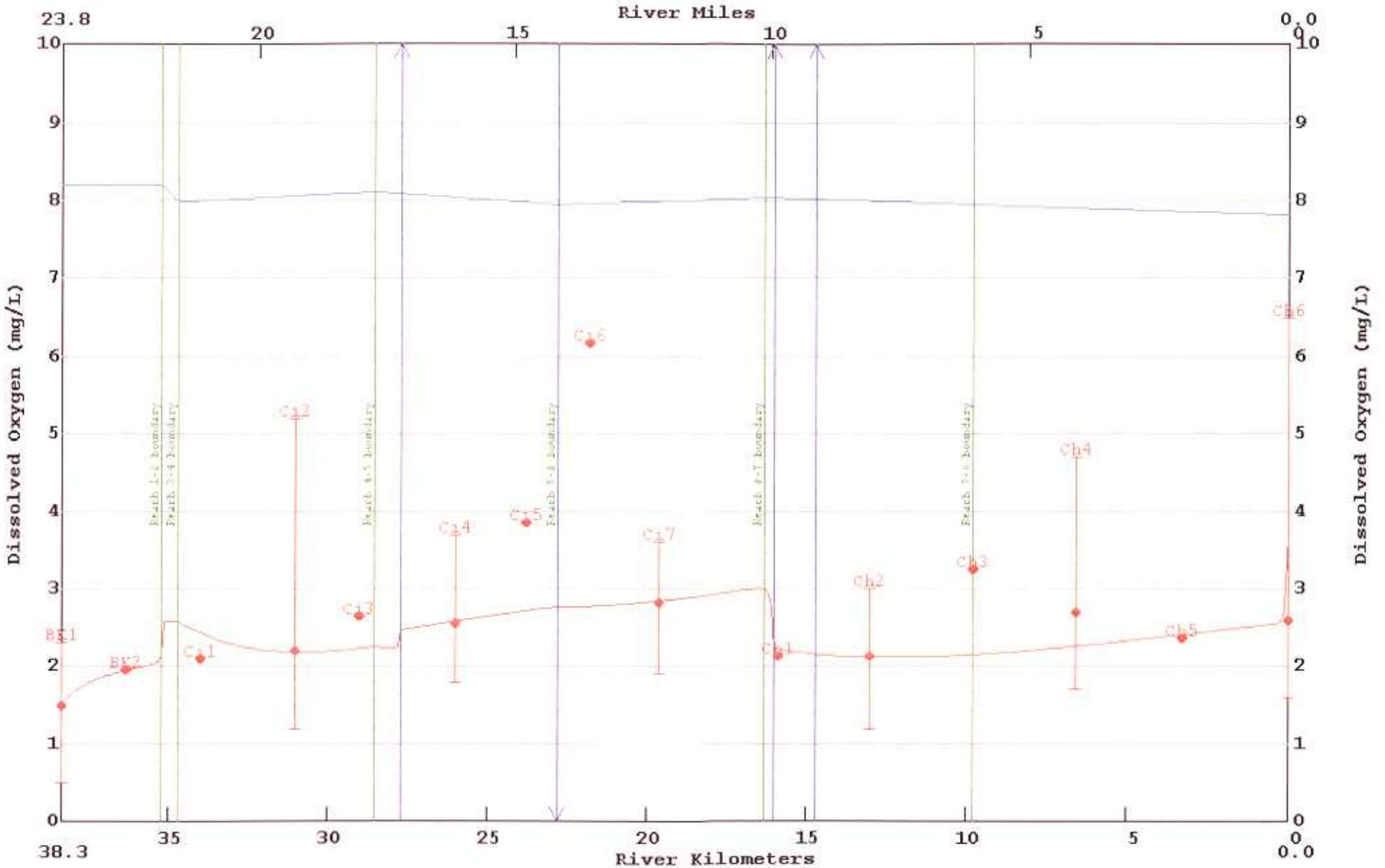
LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\calib\chev_cal7.txt
REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO min= 248.96 max= 305.00
Bayou Verret



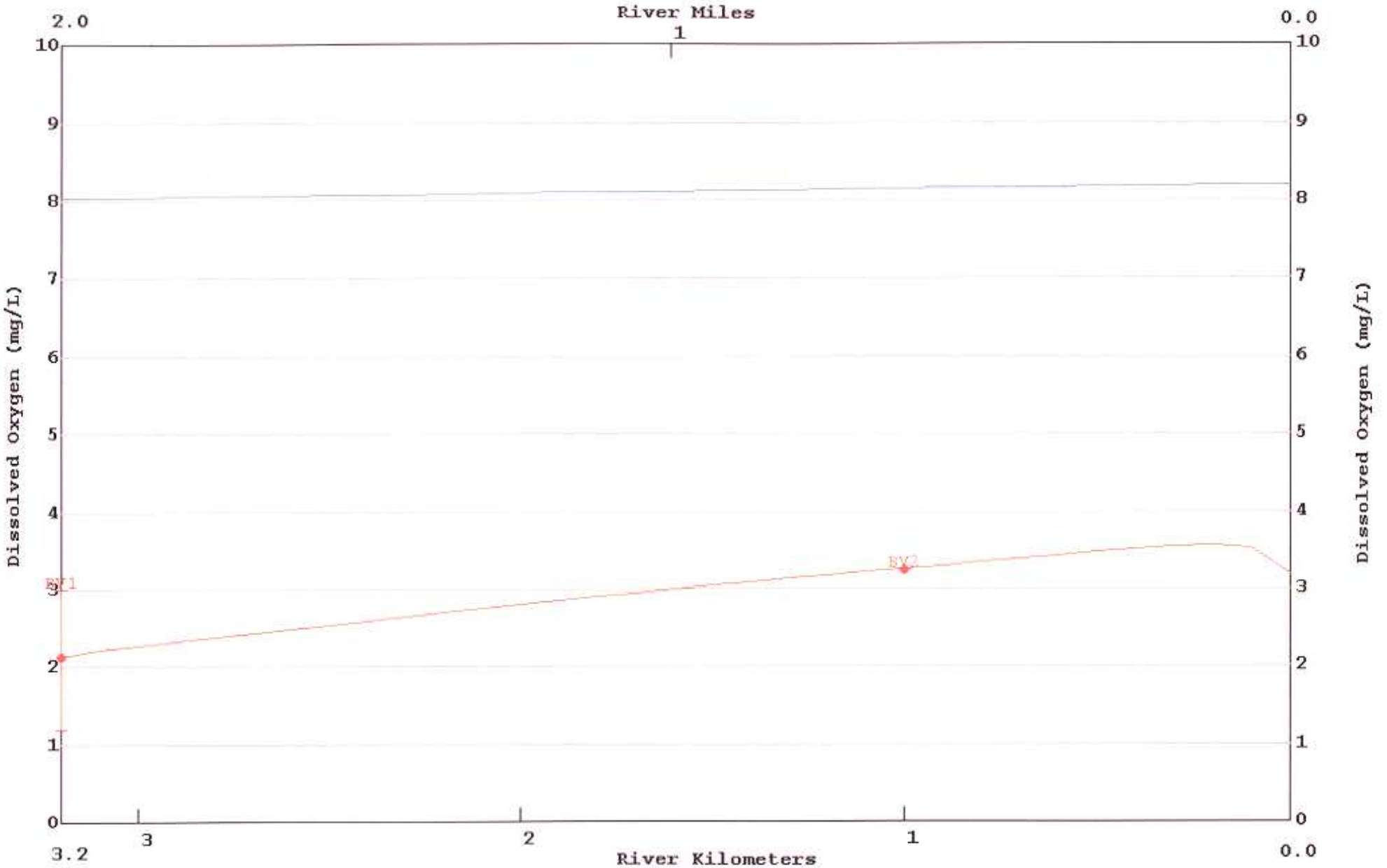
APPENDIX J

Predicted and Observed Water Quality

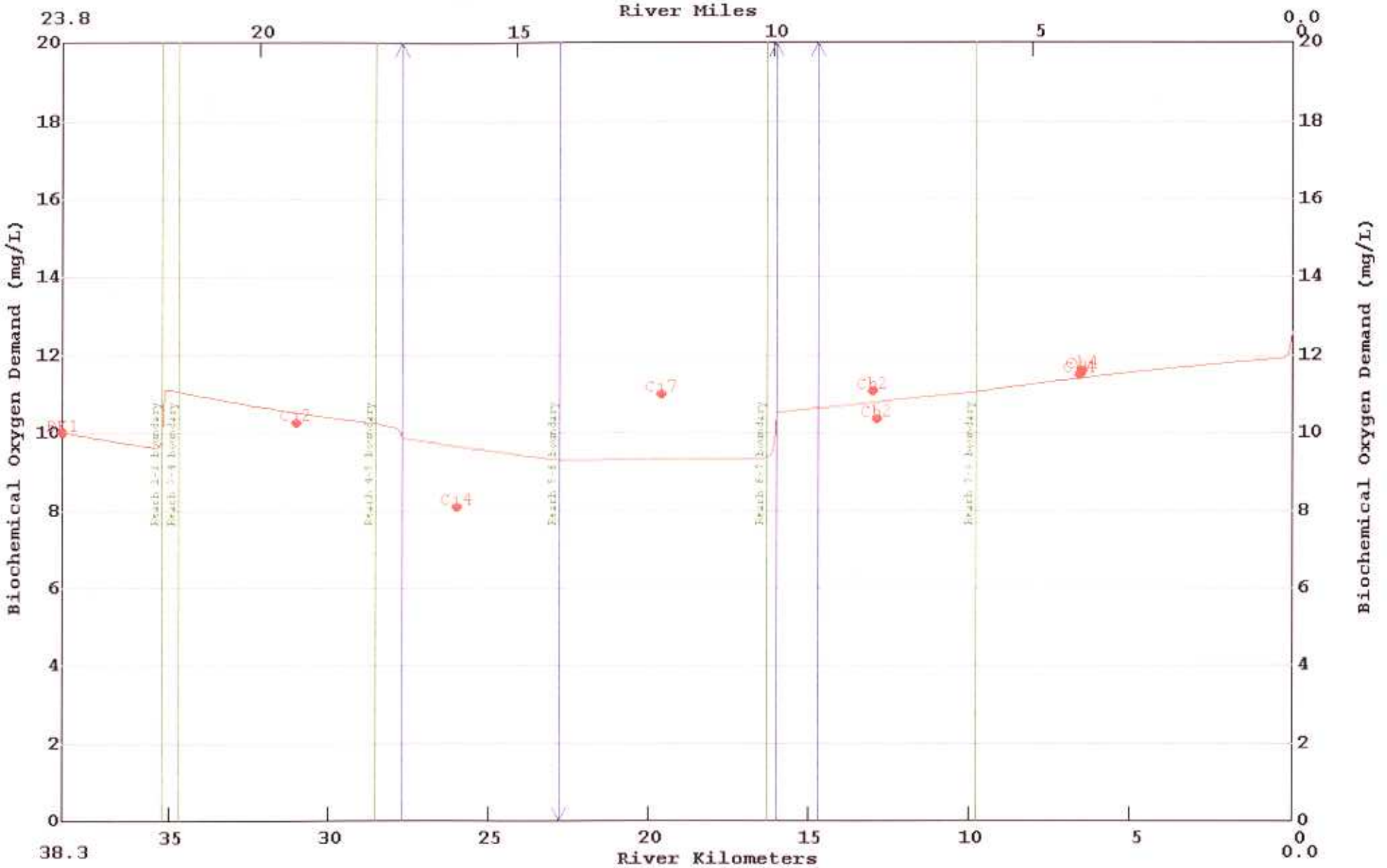
LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\calib\chev_cal7.txt
REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM, using OCONNO min= 1.50 max= 3.69
Main Stem



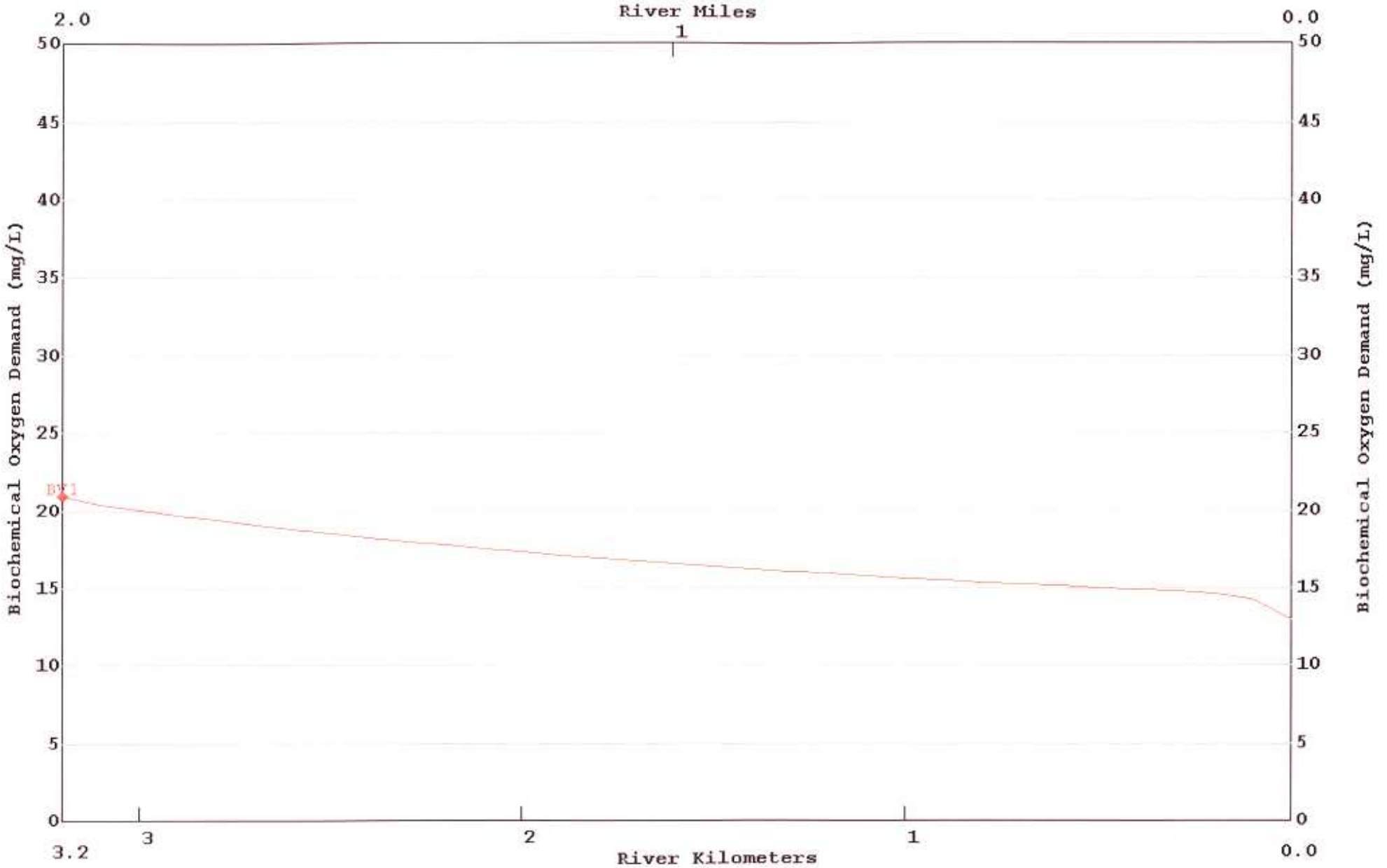
LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\calib\chev_cal7.txt
REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO min= 2.14 max= 3.57
Bayou Verret



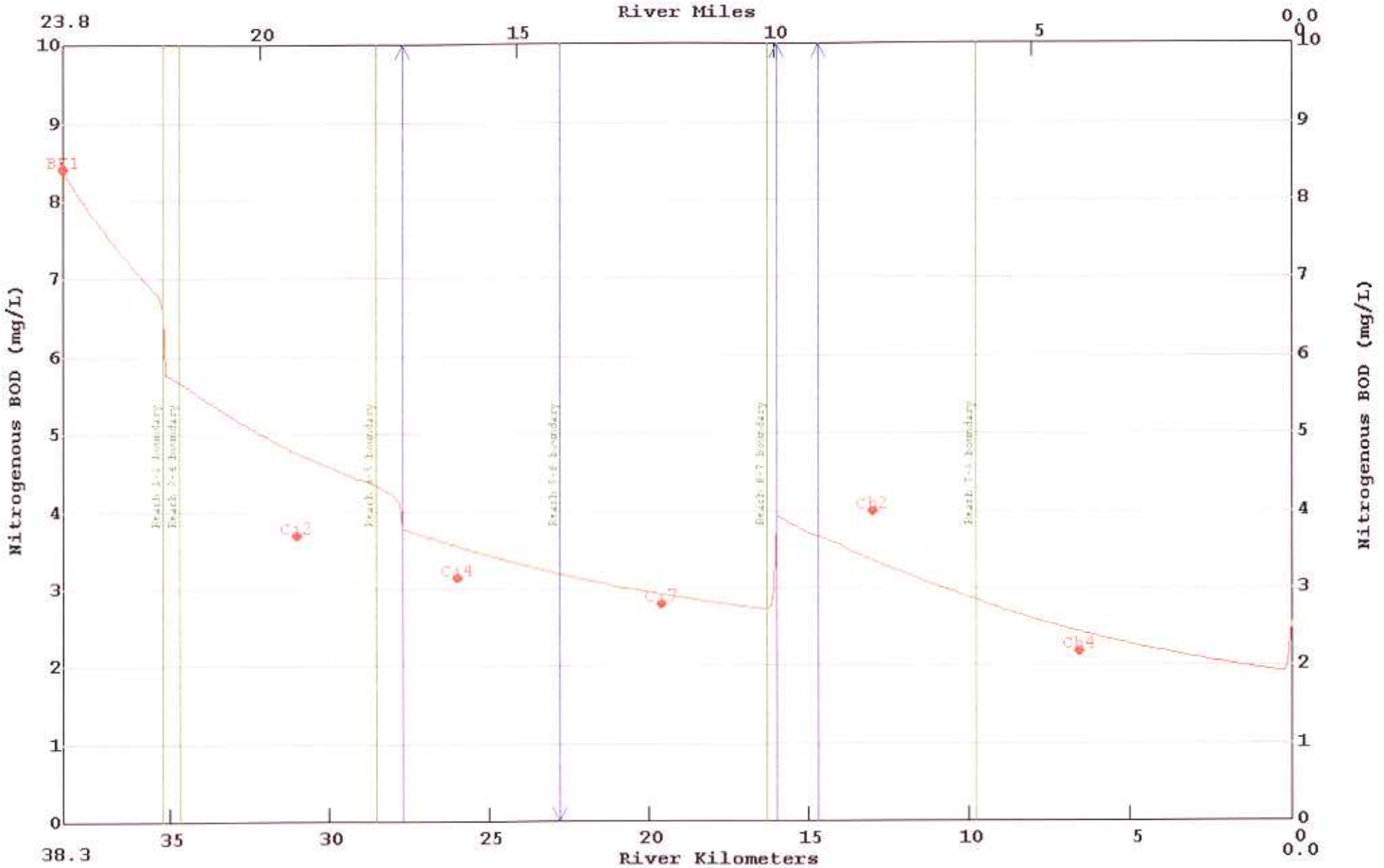
LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\calib\chev_cal7.txt
REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO min= 9.31 max= 12.58
Main Stem



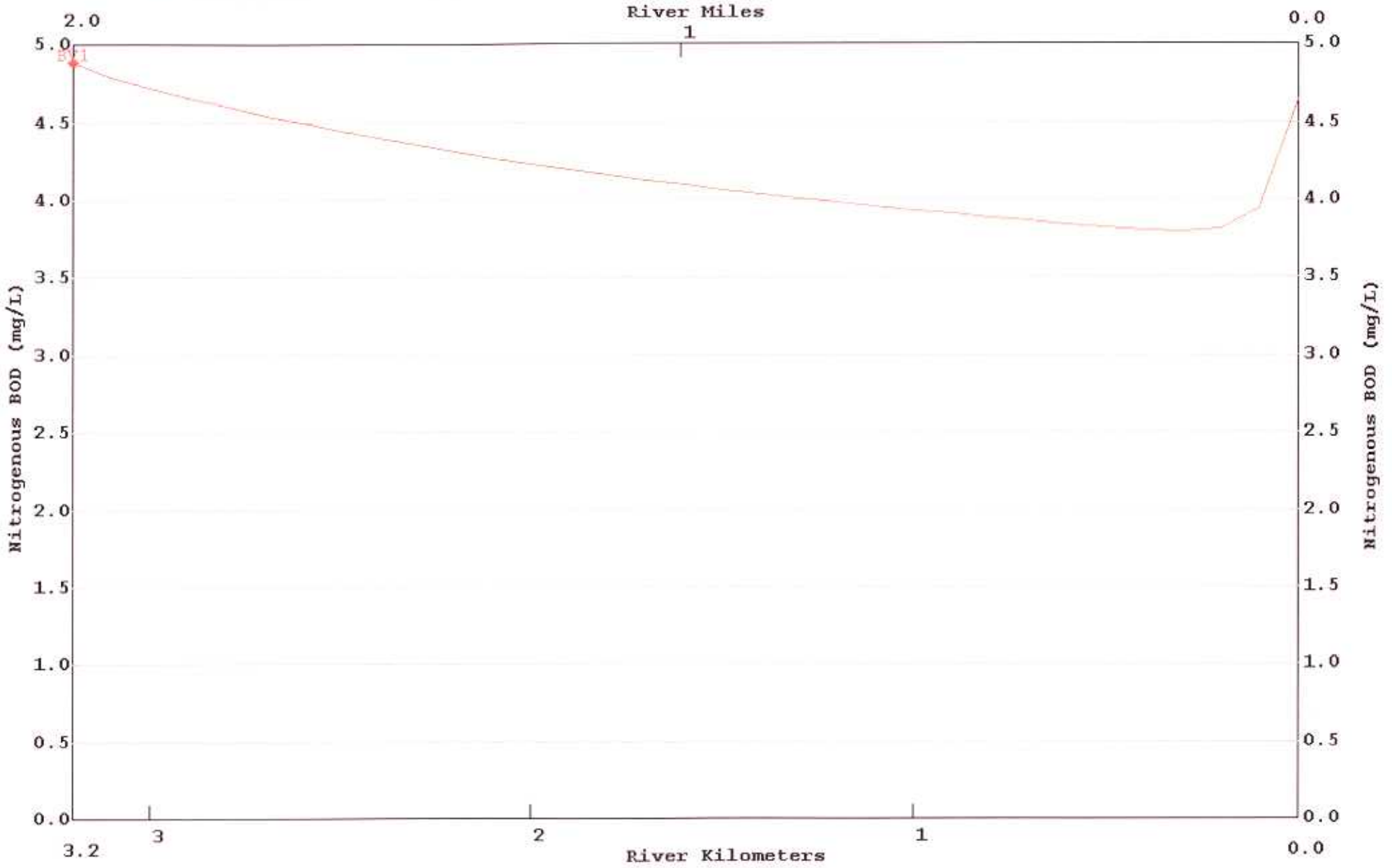
LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\calib\chev_cal7.txt
REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO min= 12.99 max= 20.97
Bayou Verret



LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\calib\chev_cal7.txt
REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO min= 1.93 max= 8.40
Main Stem



LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\calib\chev_cal7.txt
REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO min= 3.79 max= 4.89
Bayou Verret



APPENDIX K

Printout of Model Output for Calibration

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

Input file is R:\projects\3110-051\la-qual\chevreuil\revisions\calib\chev_cal7.txt
Output produced at 10:33 on 05/04/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
TITLE02         REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO
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   DISS
MODOPT06  YES   BIOC
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
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	BK	Baker Canal East	38.30	TO	35.20	0.1000	3.10	31	1	31
REACH ID	2	BV	Bayou Verret	3.20	TO	0.00	0.1000	3.20	32	32	63
REACH ID	3	BC	Bayou Citamon	35.20	TO	34.70	0.1000	0.50	5	64	68
REACH ID	4	BC	Bayou Citamon	34.70	TO	28.50	0.1000	6.20	62	69	130
REACH ID	5	BC	Bayou Citamon	28.50	TO	22.80	0.1000	5.70	57	131	187
REACH ID	6	BH	Bayou Chevreuil	22.80	TO	16.30	0.1000	6.50	65	188	252
REACH ID	7	BH	Bayou Chevreuil	16.30	TO	9.80	0.1000	6.50	65	253	317
REACH ID	8	BH	Bayou Chevreuil	9.80	TO	0.00	0.1000	9.80	98	318	415

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	BK	0.000	0.000	27.130	0.000	0.000	0.940	0.00000	0.000
HYDR-1	2	BV	0.000	0.000	24.380	0.000	0.000	0.720	0.00000	0.000
HYDR-1	3	BC	0.000	0.000	27.130	0.000	0.000	0.940	0.00000	0.000
HYDR-1	4	BC	0.000	0.000	21.940	0.000	0.000	1.040	0.00000	0.000
HYDR-1	5	BC	0.000	0.000	30.780	0.000	0.000	1.290	0.00000	0.000
HYDR-1	6	BH	0.000	0.000	25.600	0.000	0.000	1.170	0.00000	0.000
HYDR-1	7	BH	0.000	0.000	44.500	0.000	0.000	1.570	0.00000	0.000
HYDR-1	8	BH	0.000	0.000	49.070	0.000	0.000	1.710	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	BK	0.00	0.870	0.000	0.000	0.000
HYDR	2	BV	0.00	0.870	0.000	0.000	0.000
HYDR	3	BC	0.00	0.870	0.000	0.000	0.000
HYDR	4	BC	0.00	0.870	0.000	0.000	0.000
HYDR	5	BC	0.00	1.120	0.000	0.000	0.000
HYDR	6	BH	0.00	1.380	0.000	0.000	0.000
HYDR	7	BH	0.00	1.630	0.000	0.000	0.000
HYDR	8	BH	0.00	1.880	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	BK	25.40	0.08	1.50	0.00	0.00	0.00	0.00	0.00
INITIAL	2	BV	26.50	0.19	2.14	0.00	0.00	0.00	0.00	0.00
INITIAL	3	BC	25.40	0.08	1.50	0.00	0.00	0.00	0.00	0.00
INITIAL	4	BC	26.90	0.11	2.20	0.00	0.00	0.00	0.00	0.00
INITIAL	5	BC	26.00	0.10	2.55	0.00	0.00	0.00	0.00	0.00
INITIAL	6	BH	27.10	0.12	2.83	0.00	0.00	0.00	0.00	0.00
INITIAL	7	BH	26.50	0.12	2.14	0.00	0.00	0.00	0.00	0.00
INITIAL	8	BH	27.10	0.12	2.70	0.00	0.00	0.00	0.00	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	BK	3 OCONNER-DOBB	0.000	0.000	0.000	2.750	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	BV	15 LOUISIANA	0.000	0.000	0.000	2.200	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	BC	3 OCONNER-DOBB	0.000	0.000	0.000	3.000	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	BC	3 OCONNER-DOBB	0.000	0.000	0.000	3.500	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	BC	3 OCONNER-DOBB	0.000	0.000	0.000	1.850	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	BH	3 OCONNER-DOBB	0.000	0.000	0.000	2.500	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	BH	3 OCONNER-DOBB	0.000	0.000	0.000	1.700	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	BH	3 OCONNER-DOBB	0.000	0.000	0.000	1.000	0.070	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	BK	0.000	0.110	0.000	0.000
COEF-4	2	BV	0.000	0.110	0.000	0.000
COEF-4	3	BC	0.000	0.110	0.000	0.000
COEF-4	4	BC	0.000	0.190	0.000	0.000
COEF-4	5	BC	0.000	0.190	0.000	0.000
COEF-4	6	BH	0.000	0.190	0.000	0.000
COEF-4	7	BH	0.000	0.280	0.000	0.000
COEF-4	8	BH	0.000	0.280	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	BK	0.00000	0.24800	0.00	0.00	28.90	243.00	0.08000	0.00000
INCR-1	2	BV	0.00000	0.25600	0.00	0.00	28.90	243.00	0.08000	0.00000
INCR-1	3	BC	0.00000	0.04000	0.00	0.00	28.90	243.00	0.08000	0.00000
INCR-1	4	BC	0.00000	0.49600	0.00	0.00	28.90	243.00	0.08000	0.00000
INCR-1	5	BC	0.00000	0.45600	0.00	0.00	28.90	243.00	0.08000	0.00000
INCR-1	6	BH	0.00000	0.52000	0.00	0.00	28.90	243.00	0.08000	0.00000
INCR-1	7	BH	0.00000	0.52000	0.00	0.00	28.90	243.00	0.08000	0.00000
INCR-1	8	BH	0.00000	1.78400	0.00	0.00	28.90	243.00	0.18204	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-1	1	BK	2.91	11.74	0.00	0.00	0.00	0.00
INCR-1	2	BV	2.91	11.74	0.00	0.00	0.00	0.00
INCR-1	3	BC	2.91	11.74	0.00	0.00	0.00	0.00
INCR-1	4	BC	2.91	11.74	0.00	0.00	0.00	0.00
INCR-1	5	BC	2.91	11.74	0.00	0.00	0.00	0.00
INCR-1	6	BH	2.91	11.74	0.00	0.00	0.00	0.00
INCR-1	7	BH	2.91	11.74	0.00	0.00	0.00	0.00
INCR-1	8	BH	2.91	11.74	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-1	1	BK	0.00	0.00	0.00	4.07
INCR-1	2	BV	0.00	0.00	0.00	4.07
INCR-1	3	BC	0.00	0.00	0.00	4.07
INCR-1	4	BC	0.00	0.00	0.00	4.07
INCR-1	5	BC	0.00	0.00	0.00	4.07
INCR-1	6	BH	0.00	0.00	0.00	4.07
INCR-1	7	BH	0.00	0.00	0.00	4.07
INCR-1	8	BH	0.00	0.00	0.00	4.07

ENDATA18

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

CARD TYPE	REACH	ID	BOD#1	ORG-N	COLI	NCM	DO	BOD#2
NONPOINT	1	BK	0.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	2	BV	0.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	3	BC	5.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	4	BC	5.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	5	BC	5.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	6	BH	150.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	7	BH	750.00	0.00	0.00	0.00	0.00	0.00
NONPOINT	8	BH	1500.00	0.00	0.00	0.00	0.00	0.00

ENDATA19

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

CARD TYPE	ELEMENT	NAME	UNIT	FLOW m^3/s	FLOW cfs	TEMP deg C	SALIN ppt	CM-I mg/L	CM-II umhos
HDWTR-1	1	Baker Canal East	0	1.00000	35.311	25.43	0.07	9.300	172.000
HDWTR-1	32	Bayou Verret	0	0.31100	10.982	26.60	0.25	64.900	305.000

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-2	1	Baker Canal East	1.50	10.02	0.00	0.00	0.00	0.00
HDWTR-2	32	Bayou Verret	2.14	20.97	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-3	1	Baker Canal East	0.00	0.00	0.00	8.40
HDWTR-3	32	Bayou Verret	0.00	0.00	0.00	4.89

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME
JUNCTION	64	31	35.20	Bayou Verret

ENDATA23

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

CARD TYPE	ELEMENT	RKILO	NAME	FLOW m^3/s	FLOW cfs	FLOW MGD	TEMP deg C	SALIN ppt	CM-I mg/L	CM-II umhos
WSTLD-1	138	27.80	St James (SJC-1)	1.01000	35.66384	23.054	25.64	0.11	29.100	230.600
WSTLD-1	187	22.90	Grand Bayou	-1.04000	-36.72316	-23.738	0.00	0.00	0.000	0.000
WSTLD-1	255	16.10	St James (SJC-2)	2.55000	90.04237	58.205	26.07	0.13	31.700	272.600
WSTLD-1	268	14.80	Dredge Boat Canal	0.38000	13.41808	8.674	26.25	0.11	27.000	230.900

ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE	ELEMENT	NAME	DO mg/L	BOD mg/L	% BOD RMVL	ORG-N mg/L	NH3-N mg/L	% NITRIF	NO3-N mg/L	BOD#2 mg/L
WSTLD-2	138	St James (SJC-1)	3.00	9.36	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	187	Grand Bayou	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	255	St James (SJC-2)	1.30	11.96	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	268	Dredge Boat Canal	2.00	10.13	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 mg/L	CHL A mg/L	COLI mg/L	NCM mg/L
WSTLD-3	138	St James (SJC-1)	0.00	0.00	0.00	2.87
WSTLD-3	187	Grand Bayou	0.00	0.00	0.00	0.00
WSTLD-3	255	St James (SJC-2)	0.00	0.00	0.00	5.63
WSTLD-3	268	Dredge Boat Canal	0.00	0.00	0.00	4.22

ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

LOWER BC     TEMPERATURE                       =     28.000     deg C
LOWER BC     SALINITY                          =      0.100     ppt
LOWER BC     CONSERVATIVE MATERIAL I  (Cl)     =     53.300     mg/L
LOWER BC     CONSERVATIVE MATERIAL II (Cond)   =    236.700     umhos
LOWER BC     DISSOLVED OXYGEN                  =      6.800     mg/L
LOWER BC     BIOCHEMICAL OXYGEN DEMAND         =     14.300     mg/L
LOWER BC     CHLOROPHYLL A                     =      0.000     µg/L
LOWER BC     NONCONSERVATIVE MATERIAL (NBOD)   =      4.310     mg/L
ENDATA27

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

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

ENDATA28

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

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

ENDATA29

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


NUMBER OF PLOTS =  3
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  3  4  5  6  7  8
NUMBER OF REACHES IN PLOT 2 =   1
PLOT RCH  2
NUMBER OF REACHES IN PLOT 3 =   7
PLOT RCH  1  3  4  5  6  7  8
ENDATA30

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


OVERLAY 1 CSCANAL-2.OVL                    Main Stem
OVERLAY 2 VERRETC-2.OVL                    Bayou Verret
OVERLAY 3 FLOW5.OVL                        Main Stem Flows on 6/4/03
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  29 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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CONDENSED CAPSULE SUMMARY FOR Baker Canal East

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	1.00000	25.43	0.07	1.50	10.02	0.00	0.00	0.00	0.00							
38.20	1.00800	25.40	0.08	1.56	10.00	0.00	0.00	0.00	0.00	0.95	0.09	0.00	0.00	0.00	0.00	3.00
38.10	1.01600	25.40	0.08	1.60	9.99	0.00	0.00	0.00	0.00	0.95	0.09	0.00	0.00	0.00	0.00	3.08
38.00	1.02400	25.40	0.08	1.63	9.98	0.00	0.00	0.00	0.00	0.96	0.09	0.00	0.00	0.00	0.00	3.15
37.90	1.03200	25.40	0.08	1.67	9.96	0.00	0.00	0.00	0.00	0.96	0.10	0.00	0.00	0.00	0.00	3.22
37.80	1.04000	25.40	0.08	1.70	9.95	0.00	0.00	0.00	0.00	0.97	0.10	0.00	0.00	0.00	0.00	3.28
37.70	1.04800	25.40	0.08	1.72	9.94	0.00	0.00	0.00	0.00	0.97	0.10	0.00	0.00	0.00	0.00	3.33
37.60	1.05600	25.40	0.08	1.75	9.92	0.00	0.00	0.00	0.00	0.97	0.10	0.00	0.00	0.00	0.00	3.38
37.50	1.06400	25.40	0.08	1.77	9.91	0.00	0.00	0.00	0.00	0.98	0.10	0.00	0.00	0.00	0.00	3.42
37.40	1.07200	25.40	0.08	1.79	9.89	0.00	0.00	0.00	0.00	0.98	0.10	0.00	0.00	0.00	0.00	3.46
37.30	1.08000	25.40	0.08	1.81	9.88	0.00	0.00	0.00	0.00	0.98	0.10	0.00	0.00	0.00	0.00	3.50
37.20	1.08800	25.40	0.08	1.83	9.86	0.00	0.00	0.00	0.00	0.99	0.11	0.00	0.00	0.00	0.00	3.53
37.10	1.09600	25.40	0.08	1.85	9.85	0.00	0.00	0.00	0.00	0.99	0.11	0.00	0.00	0.00	0.00	3.57
37.00	1.10400	25.40	0.08	1.86	9.83	0.00	0.00	0.00	0.00	0.99	0.11	0.00	0.00	0.00	0.00	3.60
36.90	1.11200	25.40	0.08	1.88	9.82	0.00	0.00	0.00	0.00	1.00	0.11	0.00	0.00	0.00	0.00	3.62
36.80	1.12000	25.40	0.08	1.89	9.81	0.00	0.00	0.00	0.00	1.00	0.11	0.00	0.00	0.00	0.00	3.65
36.70	1.12800	25.40	0.08	1.90	9.79	0.00	0.00	0.00	0.00	1.01	0.11	0.00	0.00	0.00	0.00	3.68
36.60	1.13600	25.40	0.08	1.92	9.78	0.00	0.00	0.00	0.00	1.01	0.11	0.00	0.00	0.00	0.00	3.70
36.50	1.14400	25.40	0.08	1.93	9.76	0.00	0.00	0.00	0.00	1.01	0.11	0.00	0.00	0.00	0.00	3.72
36.40	1.15200	25.40	0.08	1.94	9.75	0.00	0.00	0.00	0.00	1.02	0.11	0.00	0.00	0.00	0.00	3.74
36.30	1.16000	25.40	0.08	1.95	9.73	0.00	0.00	0.00	0.00	1.02	0.11	0.00	0.00	0.00	0.00	3.76
36.20	1.16800	25.40	0.08	1.96	9.72	0.00	0.00	0.00	0.00	1.02	0.11	0.00	0.00	0.00	0.00	3.78
36.10	1.17600	25.40	0.08	1.97	9.71	0.00	0.00	0.00	0.00	1.03	0.11	0.00	0.00	0.00	0.00	3.80
36.00	1.18400	25.40	0.08	1.98	9.69	0.00	0.00	0.00	0.00	1.03	0.11	0.00	0.00	0.00	0.00	3.82
35.90	1.19200	25.40	0.08	1.99	9.68	0.00	0.00	0.00	0.00	1.03	0.11	0.00	0.00	0.00	0.00	3.84
35.80	1.20000	25.40	0.08	2.00	9.67	0.00	0.00	0.00	0.00	1.04	0.12	0.00	0.00	0.00	0.00	3.85
35.70	1.20800	25.40	0.08	2.01	9.65	0.00	0.00	0.00	0.00	1.04	0.12	0.00	0.00	0.00	0.00	3.86
35.60	1.21600	25.40	0.08	2.02	9.64	0.00	0.00	0.00	0.00	1.04	0.12	0.00	0.00	0.00	0.00	3.86
35.50	1.22400	25.40	0.08	2.03	9.63	0.00	0.00	0.00	0.00	1.05	0.12	0.00	0.00	0.00	0.00	3.86
35.40	1.23200	25.40	0.08	2.04	9.62	0.00	0.00	0.00	0.00	1.05	0.12	0.00	0.00	0.00	0.00	3.86
35.30	1.24000	25.40	0.08	2.06	9.64	0.00	0.00	0.00	0.00	1.05	0.12	0.00	0.00	0.00	0.00	3.86
35.20	1.24800	25.40	0.08	2.13	9.82	0.00	0.00	0.00	0.00	1.06	0.12	0.00	0.00	0.00	0.00	3.86
35.10	1.82300	25.70	0.08	2.57	11.12	0.00	0.00	0.00	0.00	1.29	0.12	0.00	0.00	0.00	0.00	4.29
35.00	1.83100	26.00	0.09	2.58	11.11	0.00	0.00	0.00	0.00	1.30	0.12	0.00	0.00	0.00	0.00	4.38
34.90	1.83900	26.30	0.10	2.58	11.09	0.00	0.00	0.00	0.00	1.31	0.12	0.00	0.00	0.00	0.00	4.46
34.80	1.84700	26.60	0.10	2.58	11.08	0.00	0.00	0.00	0.00	1.32	0.12	0.00	0.00	0.00	0.00	4.55
34.70	1.85500	26.90	0.11	2.58	11.07	0.00	0.00	0.00	0.00	1.33	0.12	0.00	0.00	0.00	0.00	4.63
34.60	1.86300	26.89	0.11	2.55	11.05	0.00	0.00	0.00	0.00	1.21	0.14	0.00	0.00	0.00	0.00	5.40
34.50	1.87100	26.87	0.11	2.53	11.03	0.00	0.00	0.00	0.00	1.21	0.14	0.00	0.00	0.00	0.00	5.39
34.40	1.87900	26.86	0.11	2.51	11.01	0.00	0.00	0.00	0.00	1.21	0.14	0.00	0.00	0.00	0.00	5.39
34.30	1.88700	26.84	0.11	2.48	11.00	0.00	0.00	0.00	0.00	1.21	0.14	0.00	0.00	0.00	0.00	5.39
34.20	1.89500	26.83	0.11	2.46	10.98	0.00	0.00	0.00	0.00	1.22	0.14	0.00	0.00	0.00	0.00	5.38
34.10	1.90300	26.81	0.11	2.44	10.96	0.00	0.00	0.00	0.00	1.22	0.14	0.00	0.00	0.00	0.00	5.38
34.00	1.91100	26.80	0.11	2.43	10.95	0.00	0.00	0.00	0.00	1.22	0.14	0.00	0.00	0.00	0.00	5.37
33.90	1.91900	26.78	0.11	2.41	10.93	0.00	0.00	0.00	0.00	1.22	0.14	0.00	0.00	0.00	0.00	5.37
33.80	1.92700	26.77	0.11	2.39	10.91	0.00	0.00	0.00	0.00	1.22	0.14	0.00	0.00	0.00	0.00	5.36
33.70	1.93500	26.75	0.11	2.37	10.90	0.00	0.00	0.00	0.00	1.23	0.14	0.00	0.00	0.00	0.00	5.36
33.60	1.94300	26.74	0.11	2.36	10.88	0.00	0.00	0.00	0.00	1.23	0.14	0.00	0.00	0.00	0.00	5.35

33.50	1.95100	26.73	0.11	2.34	10.86	0.00	0.00	0.00	0.00	1.23	0.14	0.00	0.00	0.00	0.00	5.35
33.40	1.95900	26.71	0.11	2.33	10.85	0.00	0.00	0.00	0.00	1.23	0.14	0.00	0.00	0.00	0.00	5.34
33.30	1.96700	26.70	0.11	2.32	10.83	0.00	0.00	0.00	0.00	1.24	0.14	0.00	0.00	0.00	0.00	5.34
33.20	1.97500	26.68	0.11	2.30	10.82	0.00	0.00	0.00	0.00	1.24	0.14	0.00	0.00	0.00	0.00	5.33
33.10	1.98300	26.67	0.11	2.29	10.80	0.00	0.00	0.00	0.00	1.24	0.14	0.00	0.00	0.00	0.00	5.33
33.00	1.99100	26.65	0.11	2.28	10.79	0.00	0.00	0.00	0.00	1.24	0.14	0.00	0.00	0.00	0.00	5.32
32.90	1.99900	26.64	0.11	2.27	10.77	0.00	0.00	0.00	0.00	1.24	0.14	0.00	0.00	0.00	0.00	5.32
32.80	2.00700	26.62	0.11	2.26	10.76	0.00	0.00	0.00	0.00	1.25	0.14	0.00	0.00	0.00	0.00	5.31
32.70	2.01500	26.61	0.11	2.25	10.74	0.00	0.00	0.00	0.00	1.25	0.14	0.00	0.00	0.00	0.00	5.31
32.60	2.02300	26.60	0.11	2.25	10.73	0.00	0.00	0.00	0.00	1.25	0.14	0.00	0.00	0.00	0.00	5.30
32.50	2.03100	26.58	0.11	2.24	10.71	0.00	0.00	0.00	0.00	1.25	0.14	0.00	0.00	0.00	0.00	5.30
32.40	2.03900	26.57	0.11	2.23	10.70	0.00	0.00	0.00	0.00	1.25	0.14	0.00	0.00	0.00	0.00	5.29
32.30	2.04700	26.55	0.11	2.22	10.68	0.00	0.00	0.00	0.00	1.26	0.14	0.00	0.00	0.00	0.00	5.29
32.20	2.05500	26.54	0.11	2.22	10.67	0.00	0.00	0.00	0.00	1.26	0.14	0.00	0.00	0.00	0.00	5.28
32.10	2.06300	26.52	0.11	2.21	10.66	0.00	0.00	0.00	0.00	1.26	0.13	0.00	0.00	0.00	0.00	5.28
32.00	2.07100	26.51	0.11	2.21	10.64	0.00	0.00	0.00	0.00	1.26	0.13	0.00	0.00	0.00	0.00	5.27
31.90	2.07900	26.49	0.11	2.20	10.63	0.00	0.00	0.00	0.00	1.27	0.13	0.00	0.00	0.00	0.00	5.27
31.80	2.08700	26.48	0.11	2.20	10.62	0.00	0.00	0.00	0.00	1.27	0.13	0.00	0.00	0.00	0.00	5.26
31.70	2.09500	26.46	0.11	2.19	10.60	0.00	0.00	0.00	0.00	1.27	0.13	0.00	0.00	0.00	0.00	5.26
31.60	2.10300	26.45	0.11	2.19	10.59	0.00	0.00	0.00	0.00	1.27	0.13	0.00	0.00	0.00	0.00	5.25
31.50	2.11100	26.44	0.10	2.19	10.58	0.00	0.00	0.00	0.00	1.27	0.13	0.00	0.00	0.00	0.00	5.25
31.40	2.11900	26.42	0.10	2.19	10.56	0.00	0.00	0.00	0.00	1.28	0.13	0.00	0.00	0.00	0.00	5.24
31.30	2.12700	26.41	0.10	2.18	10.55	0.00	0.00	0.00	0.00	1.28	0.13	0.00	0.00	0.00	0.00	5.24
31.20	2.13500	26.39	0.10	2.18	10.54	0.00	0.00	0.00	0.00	1.28	0.13	0.00	0.00	0.00	0.00	5.23
31.10	2.14300	26.38	0.10	2.18	10.53	0.00	0.00	0.00	0.00	1.28	0.13	0.00	0.00	0.00	0.00	5.23
31.00	2.15100	26.36	0.10	2.18	10.51	0.00	0.00	0.00	0.00	1.28	0.13	0.00	0.00	0.00	0.00	5.23
30.90	2.15900	26.35	0.10	2.18	10.50	0.00	0.00	0.00	0.00	1.29	0.13	0.00	0.00	0.00	0.00	5.22
30.80	2.16700	26.33	0.10	2.18	10.49	0.00	0.00	0.00	0.00	1.29	0.13	0.00	0.00	0.00	0.00	5.22
30.70	2.17500	26.32	0.10	2.18	10.48	0.00	0.00	0.00	0.00	1.29	0.13	0.00	0.00	0.00	0.00	5.21
30.60	2.18300	26.30	0.10	2.18	10.47	0.00	0.00	0.00	0.00	1.29	0.13	0.00	0.00	0.00	0.00	5.21
30.50	2.19100	26.29	0.10	2.18	10.45	0.00	0.00	0.00	0.00	1.29	0.13	0.00	0.00	0.00	0.00	5.20
30.40	2.19900	26.28	0.10	2.18	10.44	0.00	0.00	0.00	0.00	1.30	0.13	0.00	0.00	0.00	0.00	5.20
30.30	2.20700	26.26	0.10	2.19	10.43	0.00	0.00	0.00	0.00	1.30	0.13	0.00	0.00	0.00	0.00	5.19
30.20	2.21500	26.25	0.10	2.19	10.42	0.00	0.00	0.00	0.00	1.30	0.13	0.00	0.00	0.00	0.00	5.19
30.10	2.22300	26.23	0.10	2.19	10.41	0.00	0.00	0.00	0.00	1.30	0.13	0.00	0.00	0.00	0.00	5.18
30.00	2.23100	26.22	0.10	2.19	10.40	0.00	0.00	0.00	0.00	1.30	0.13	0.00	0.00	0.00	0.00	5.18
29.90	2.23900	26.20	0.10	2.20	10.39	0.00	0.00	0.00	0.00	1.31	0.13	0.00	0.00	0.00	0.00	5.17
29.80	2.24700	26.19	0.10	2.20	10.38	0.00	0.00	0.00	0.00	1.31	0.13	0.00	0.00	0.00	0.00	5.17
29.70	2.25500	26.17	0.10	2.20	10.36	0.00	0.00	0.00	0.00	1.31	0.13	0.00	0.00	0.00	0.00	5.16
29.60	2.26300	26.16	0.10	2.21	10.35	0.00	0.00	0.00	0.00	1.31	0.13	0.00	0.00	0.00	0.00	5.16
29.50	2.27100	26.15	0.10	2.21	10.34	0.00	0.00	0.00	0.00	1.31	0.13	0.00	0.00	0.00	0.00	5.15
29.40	2.27900	26.13	0.10	2.21	10.33	0.00	0.00	0.00	0.00	1.32	0.13	0.00	0.00	0.00	0.00	5.15
29.30	2.28700	26.12	0.10	2.22	10.32	0.00	0.00	0.00	0.00	1.32	0.13	0.00	0.00	0.00	0.00	5.14
29.20	2.29500	26.10	0.10	2.22	10.31	0.00	0.00	0.00	0.00	1.32	0.13	0.00	0.00	0.00	0.00	5.14
29.10	2.30300	26.09	0.10	2.23	10.30	0.00	0.00	0.00	0.00	1.32	0.13	0.00	0.00	0.00	0.00	5.14
29.00	2.31100	26.07	0.10	2.23	10.29	0.00	0.00	0.00	0.00	1.32	0.13	0.00	0.00	0.00	0.00	5.13
28.90	2.31900	26.06	0.10	2.24	10.28	0.00	0.00	0.00	0.00	1.33	0.13	0.00	0.00	0.00	0.00	5.13
28.80	2.32700	26.04	0.10	2.24	10.27	0.00	0.00	0.00	0.00	1.33	0.13	0.00	0.00	0.00	0.00	5.12
28.70	2.33500	26.03	0.10	2.25	10.26	0.00	0.00	0.00	0.00	1.33	0.13	0.00	0.00	0.00	0.00	5.12
28.60	2.34300	26.01	0.10	2.25	10.25	0.00	0.00	0.00	0.00	1.33	0.13	0.00	0.00	0.00	0.00	5.11
28.50	2.35100	26.00	0.10	2.26	10.24	0.00	0.00	0.00	0.00	1.33	0.13	0.00	0.00	0.00	0.00	5.11
28.40	2.35900	26.02	0.10	2.25	10.22	0.00	0.00	0.00	0.00	0.73	0.13	0.00	0.00	0.00	0.00	2.70
28.30	2.36700	26.04	0.10	2.25	10.20	0.00	0.00	0.00	0.00	0.73	0.13	0.00	0.00	0.00	0.00	2.71
28.20	2.37500	26.06	0.10	2.24	10.18	0.00	0.00	0.00	0.00	0.74	0.13	0.00	0.00	0.00	0.00	2.71
28.10	2.38300	26.08	0.10	2.24	10.16	0.00	0.00	0.00	0.00	0.74	0.13	0.00	0.00	0.00	0.00	2.71
28.00	2.39100	26.10	0.10	2.23	10.14	0.00	0.00	0.00	0.00	0.74	0.13	0.00	0.00	0.00	0.00	2.72

27.90	2.39900	26.12	0.10	2.24	10.11	0.00	0.00	0.00	0.00	0.74	0.13	0.00	0.00	0.00	0.00	2.72
27.80	2.40700	26.14	0.10	2.26	10.06	0.00	0.00	0.00	0.00	0.74	0.13	0.00	0.00	0.00	0.00	2.72
27.70	3.42500	26.15	0.10	2.46	9.87	0.00	0.00	0.00	0.00	0.89	0.13	0.00	0.00	0.00	0.00	2.73
27.60	3.43300	26.17	0.10	2.47	9.85	0.00	0.00	0.00	0.00	0.89	0.13	0.00	0.00	0.00	0.00	2.73
27.50	3.44100	26.19	0.10	2.48	9.84	0.00	0.00	0.00	0.00	0.89	0.13	0.00	0.00	0.00	0.00	2.73
27.40	3.44900	26.21	0.10	2.49	9.83	0.00	0.00	0.00	0.00	0.89	0.13	0.00	0.00	0.00	0.00	2.74
27.30	3.45700	26.23	0.10	2.49	9.82	0.00	0.00	0.00	0.00	0.89	0.13	0.00	0.00	0.00	0.00	2.74
27.20	3.46499	26.25	0.10	2.50	9.80	0.00	0.00	0.00	0.00	0.89	0.13	0.00	0.00	0.00	0.00	2.74
27.10	3.47299	26.27	0.10	2.51	9.79	0.00	0.00	0.00	0.00	0.89	0.13	0.00	0.00	0.00	0.00	2.75
27.00	3.48099	26.29	0.11	2.51	9.78	0.00	0.00	0.00	0.00	0.90	0.13	0.00	0.00	0.00	0.00	2.75
26.90	3.48899	26.31	0.11	2.52	9.77	0.00	0.00	0.00	0.00	0.90	0.13	0.00	0.00	0.00	0.00	2.75
26.80	3.49699	26.33	0.11	2.53	9.75	0.00	0.00	0.00	0.00	0.90	0.13	0.00	0.00	0.00	0.00	2.76
26.70	3.50499	26.35	0.11	2.54	9.74	0.00	0.00	0.00	0.00	0.90	0.13	0.00	0.00	0.00	0.00	2.76
26.60	3.51299	26.37	0.11	2.54	9.73	0.00	0.00	0.00	0.00	0.90	0.13	0.00	0.00	0.00	0.00	2.76
26.50	3.52099	26.39	0.11	2.55	9.72	0.00	0.00	0.00	0.00	0.90	0.13	0.00	0.00	0.00	0.00	2.77
26.40	3.52899	26.41	0.11	2.56	9.71	0.00	0.00	0.00	0.00	0.90	0.13	0.00	0.00	0.00	0.00	2.77
26.30	3.53699	26.42	0.11	2.56	9.69	0.00	0.00	0.00	0.00	0.90	0.13	0.00	0.00	0.00	0.00	2.77
26.20	3.54499	26.44	0.11	2.57	9.68	0.00	0.00	0.00	0.00	0.91	0.13	0.00	0.00	0.00	0.00	2.78
26.10	3.55299	26.46	0.11	2.58	9.67	0.00	0.00	0.00	0.00	0.91	0.13	0.00	0.00	0.00	0.00	2.78
26.00	3.56099	26.48	0.11	2.58	9.66	0.00	0.00	0.00	0.00	0.91	0.13	0.00	0.00	0.00	0.00	2.78
25.90	3.56899	26.50	0.11	2.59	9.65	0.00	0.00	0.00	0.00	0.91	0.13	0.00	0.00	0.00	0.00	2.79
25.80	3.57699	26.52	0.11	2.60	9.63	0.00	0.00	0.00	0.00	0.91	0.13	0.00	0.00	0.00	0.00	2.79
25.70	3.58499	26.54	0.11	2.60	9.62	0.00	0.00	0.00	0.00	0.91	0.14	0.00	0.00	0.00	0.00	2.79
25.60	3.59299	26.56	0.11	2.61	9.61	0.00	0.00	0.00	0.00	0.91	0.14	0.00	0.00	0.00	0.00	2.80
25.50	3.60099	26.58	0.11	2.61	9.60	0.00	0.00	0.00	0.00	0.92	0.14	0.00	0.00	0.00	0.00	2.80
25.40	3.60899	26.60	0.11	2.62	9.59	0.00	0.00	0.00	0.00	0.92	0.14	0.00	0.00	0.00	0.00	2.80
25.30	3.61699	26.62	0.11	2.63	9.58	0.00	0.00	0.00	0.00	0.92	0.14	0.00	0.00	0.00	0.00	2.81
25.20	3.62499	26.64	0.11	2.63	9.57	0.00	0.00	0.00	0.00	0.92	0.14	0.00	0.00	0.00	0.00	2.81
25.10	3.63299	26.66	0.11	2.64	9.55	0.00	0.00	0.00	0.00	0.92	0.14	0.00	0.00	0.00	0.00	2.81
25.00	3.64099	26.68	0.11	2.65	9.54	0.00	0.00	0.00	0.00	0.92	0.14	0.00	0.00	0.00	0.00	2.82
24.90	3.64899	26.69	0.11	2.65	9.53	0.00	0.00	0.00	0.00	0.92	0.14	0.00	0.00	0.00	0.00	2.82
24.80	3.65699	26.71	0.11	2.66	9.52	0.00	0.00	0.00	0.00	0.92	0.14	0.00	0.00	0.00	0.00	2.82
24.70	3.66499	26.73	0.11	2.66	9.51	0.00	0.00	0.00	0.00	0.93	0.14	0.00	0.00	0.00	0.00	2.83
24.60	3.67299	26.75	0.11	2.67	9.50	0.00	0.00	0.00	0.00	0.93	0.14	0.00	0.00	0.00	0.00	2.83
24.50	3.68099	26.77	0.11	2.68	9.49	0.00	0.00	0.00	0.00	0.93	0.14	0.00	0.00	0.00	0.00	2.83
24.40	3.68899	26.79	0.11	2.68	9.48	0.00	0.00	0.00	0.00	0.93	0.14	0.00	0.00	0.00	0.00	2.84
24.30	3.69699	26.81	0.11	2.69	9.47	0.00	0.00	0.00	0.00	0.93	0.14	0.00	0.00	0.00	0.00	2.84
24.20	3.70499	26.83	0.12	2.69	9.45	0.00	0.00	0.00	0.00	0.93	0.14	0.00	0.00	0.00	0.00	2.84
24.10	3.71299	26.85	0.12	2.70	9.44	0.00	0.00	0.00	0.00	0.93	0.14	0.00	0.00	0.00	0.00	2.85
24.00	3.72099	26.87	0.12	2.71	9.43	0.00	0.00	0.00	0.00	0.94	0.14	0.00	0.00	0.00	0.00	2.85
23.90	3.72899	26.89	0.12	2.71	9.42	0.00	0.00	0.00	0.00	0.94	0.14	0.00	0.00	0.00	0.00	2.85
23.80	3.73699	26.91	0.12	2.72	9.41	0.00	0.00	0.00	0.00	0.94	0.14	0.00	0.00	0.00	0.00	2.86
23.70	3.74499	26.93	0.12	2.72	9.40	0.00	0.00	0.00	0.00	0.94	0.14	0.00	0.00	0.00	0.00	2.86
23.60	3.75299	26.95	0.12	2.73	9.39	0.00	0.00	0.00	0.00	0.94	0.14	0.00	0.00	0.00	0.00	2.87
23.50	3.76099	26.96	0.12	2.73	9.38	0.00	0.00	0.00	0.00	0.94	0.14	0.00	0.00	0.00	0.00	2.87
23.40	3.76899	26.98	0.12	2.74	9.37	0.00	0.00	0.00	0.00	0.94	0.14	0.00	0.00	0.00	0.00	2.87
23.30	3.77699	27.00	0.12	2.74	9.36	0.00	0.00	0.00	0.00	0.94	0.14	0.00	0.00	0.00	0.00	2.88
23.20	3.78499	27.02	0.12	2.75	9.35	0.00	0.00	0.00	0.00	0.95	0.14	0.00	0.00	0.00	0.00	2.88
23.10	3.79299	27.04	0.12	2.75	9.34	0.00	0.00	0.00	0.00	0.95	0.14	0.00	0.00	0.00	0.00	2.88
23.00	3.80099	27.06	0.12	2.76	9.33	0.00	0.00	0.00	0.00	0.95	0.14	0.00	0.00	0.00	0.00	2.89
22.90	3.80899	27.08	0.12	2.76	9.32	0.00	0.00	0.00	0.00	0.95	0.14	0.00	0.00	0.00	0.00	2.89
22.80	2.77699	27.10	0.12	2.76	9.31	0.00	0.00	0.00	0.00	0.81	0.14	0.00	0.00	0.00	0.00	2.89
22.70	2.78499	27.09	0.12	2.76	9.31	0.00	0.00	0.00	0.00	1.08	0.14	0.00	0.00	0.00	0.00	3.91
22.60	2.79299	27.08	0.12	2.76	9.31	0.00	0.00	0.00	0.00	1.08	0.14	0.00	0.00	0.00	0.00	3.90
22.50	2.80099	27.07	0.12	2.76	9.31	0.00	0.00	0.00	0.00	1.09	0.14	0.00	0.00	0.00	0.00	3.90
22.40	2.80899	27.06	0.12	2.76	9.31	0.00	0.00	0.00	0.00	1.09	0.14	0.00	0.00	0.00	0.00	3.90

22.30	2.81699	27.05	0.12	2.77	9.31	0.00	0.00	0.00	0.00	1.09	0.14	0.00	0.00	0.00	0.00	3.90
22.20	2.82499	27.04	0.12	2.77	9.31	0.00	0.00	0.00	0.00	1.09	0.14	0.00	0.00	0.00	0.00	3.90
22.10	2.83299	27.04	0.12	2.77	9.31	0.00	0.00	0.00	0.00	1.09	0.14	0.00	0.00	0.00	0.00	3.89
22.00	2.84099	27.03	0.12	2.77	9.31	0.00	0.00	0.00	0.00	1.09	0.14	0.00	0.00	0.00	0.00	3.89
21.90	2.84899	27.02	0.12	2.77	9.31	0.00	0.00	0.00	0.00	1.09	0.14	0.00	0.00	0.00	0.00	3.89
21.80	2.85699	27.01	0.12	2.77	9.31	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.89
21.70	2.86499	27.00	0.12	2.78	9.31	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.88
21.60	2.87299	26.99	0.12	2.78	9.32	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.88
21.50	2.88099	26.98	0.12	2.78	9.32	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.88
21.40	2.88899	26.97	0.12	2.78	9.32	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.88
21.30	2.89699	26.96	0.12	2.79	9.32	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.88
21.20	2.90499	26.95	0.12	2.79	9.32	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.87
21.10	2.91299	26.94	0.12	2.79	9.32	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.87
21.00	2.92099	26.93	0.12	2.79	9.32	0.00	0.00	0.00	0.00	1.11	0.14	0.00	0.00	0.00	0.00	3.87
20.90	2.92899	26.92	0.12	2.80	9.32	0.00	0.00	0.00	0.00	1.11	0.14	0.00	0.00	0.00	0.00	3.87
20.80	2.93699	26.92	0.12	2.80	9.32	0.00	0.00	0.00	0.00	1.11	0.14	0.00	0.00	0.00	0.00	3.86
20.70	2.94499	26.91	0.12	2.80	9.32	0.00	0.00	0.00	0.00	1.11	0.14	0.00	0.00	0.00	0.00	3.86
20.60	2.95299	26.90	0.12	2.81	9.32	0.00	0.00	0.00	0.00	1.11	0.14	0.00	0.00	0.00	0.00	3.86
20.50	2.96099	26.89	0.12	2.81	9.32	0.00	0.00	0.00	0.00	1.11	0.14	0.00	0.00	0.00	0.00	3.86
20.40	2.96899	26.88	0.12	2.81	9.32	0.00	0.00	0.00	0.00	1.11	0.14	0.00	0.00	0.00	0.00	3.86
20.30	2.97699	26.87	0.12	2.82	9.32	0.00	0.00	0.00	0.00	1.12	0.14	0.00	0.00	0.00	0.00	3.85
20.20	2.98499	26.86	0.12	2.82	9.32	0.00	0.00	0.00	0.00	1.12	0.14	0.00	0.00	0.00	0.00	3.85
20.10	2.99299	26.85	0.12	2.83	9.32	0.00	0.00	0.00	0.00	1.12	0.14	0.00	0.00	0.00	0.00	3.85
20.00	3.00099	26.84	0.12	2.83	9.32	0.00	0.00	0.00	0.00	1.12	0.14	0.00	0.00	0.00	0.00	3.85
19.90	3.00899	26.83	0.12	2.83	9.33	0.00	0.00	0.00	0.00	1.12	0.14	0.00	0.00	0.00	0.00	3.84
19.80	3.01699	26.82	0.12	2.84	9.33	0.00	0.00	0.00	0.00	1.12	0.14	0.00	0.00	0.00	0.00	3.84
19.70	3.02499	26.81	0.12	2.84	9.33	0.00	0.00	0.00	0.00	1.12	0.14	0.00	0.00	0.00	0.00	3.84
19.60	3.03299	26.80	0.12	2.85	9.33	0.00	0.00	0.00	0.00	1.12	0.14	0.00	0.00	0.00	0.00	3.84
19.50	3.04099	26.80	0.12	2.85	9.33	0.00	0.00	0.00	0.00	1.13	0.14	0.00	0.00	0.00	0.00	3.84
19.40	3.04899	26.79	0.12	2.85	9.33	0.00	0.00	0.00	0.00	1.13	0.14	0.00	0.00	0.00	0.00	3.83
19.30	3.05699	26.78	0.12	2.86	9.33	0.00	0.00	0.00	0.00	1.13	0.14	0.00	0.00	0.00	0.00	3.83
19.20	3.06499	26.77	0.12	2.86	9.33	0.00	0.00	0.00	0.00	1.13	0.14	0.00	0.00	0.00	0.00	3.83
19.10	3.07299	26.76	0.12	2.87	9.33	0.00	0.00	0.00	0.00	1.13	0.14	0.00	0.00	0.00	0.00	3.83
19.00	3.08099	26.75	0.12	2.87	9.33	0.00	0.00	0.00	0.00	1.13	0.14	0.00	0.00	0.00	0.00	3.82
18.90	3.08899	26.74	0.12	2.88	9.33	0.00	0.00	0.00	0.00	1.13	0.14	0.00	0.00	0.00	0.00	3.82
18.80	3.09699	26.73	0.12	2.88	9.33	0.00	0.00	0.00	0.00	1.13	0.14	0.00	0.00	0.00	0.00	3.82
18.70	3.10499	26.72	0.12	2.89	9.33	0.00	0.00	0.00	0.00	1.14	0.14	0.00	0.00	0.00	0.00	3.82
18.60	3.11299	26.71	0.12	2.89	9.33	0.00	0.00	0.00	0.00	1.14	0.14	0.00	0.00	0.00	0.00	3.82
18.50	3.12099	26.70	0.12	2.90	9.33	0.00	0.00	0.00	0.00	1.14	0.14	0.00	0.00	0.00	0.00	3.81
18.40	3.12899	26.69	0.12	2.90	9.33	0.00	0.00	0.00	0.00	1.14	0.14	0.00	0.00	0.00	0.00	3.81
18.30	3.13699	26.68	0.12	2.91	9.33	0.00	0.00	0.00	0.00	1.14	0.14	0.00	0.00	0.00	0.00	3.81
18.20	3.14499	26.68	0.12	2.91	9.34	0.00	0.00	0.00	0.00	1.14	0.14	0.00	0.00	0.00	0.00	3.81
18.10	3.15299	26.67	0.12	2.92	9.34	0.00	0.00	0.00	0.00	1.14	0.14	0.00	0.00	0.00	0.00	3.80
18.00	3.16099	26.66	0.12	2.92	9.34	0.00	0.00	0.00	0.00	1.14	0.14	0.00	0.00	0.00	0.00	3.80
17.90	3.16899	26.65	0.12	2.93	9.34	0.00	0.00	0.00	0.00	1.15	0.14	0.00	0.00	0.00	0.00	3.80
17.80	3.17699	26.64	0.12	2.93	9.34	0.00	0.00	0.00	0.00	1.15	0.14	0.00	0.00	0.00	0.00	3.80
17.70	3.18499	26.63	0.12	2.94	9.34	0.00	0.00	0.00	0.00	1.15	0.14	0.00	0.00	0.00	0.00	3.80
17.60	3.19299	26.62	0.12	2.94	9.34	0.00	0.00	0.00	0.00	1.15	0.14	0.00	0.00	0.00	0.00	3.79
17.50	3.20098	26.61	0.12	2.95	9.34	0.00	0.00	0.00	0.00	1.15	0.14	0.00	0.00	0.00	0.00	3.79
17.40	3.20898	26.60	0.12	2.95	9.34	0.00	0.00	0.00	0.00	1.15	0.14	0.00	0.00	0.00	0.00	3.79
17.30	3.21698	26.59	0.12	2.96	9.34	0.00	0.00	0.00	0.00	1.15	0.14	0.00	0.00	0.00	0.00	3.79
17.20	3.22498	26.58	0.12	2.96	9.34	0.00	0.00	0.00	0.00	1.15	0.14	0.00	0.00	0.00	0.00	3.78
17.10	3.23298	26.57	0.12	2.97	9.34	0.00	0.00	0.00	0.00	1.16	0.14	0.00	0.00	0.00	0.00	3.78
17.00	3.24098	26.56	0.12	2.97	9.34	0.00	0.00	0.00	0.00	1.16	0.14	0.00	0.00	0.00	0.00	3.78
16.90	3.24898	26.56	0.12	2.98	9.34	0.00	0.00	0.00	0.00	1.16	0.14	0.00	0.00	0.00	0.00	3.78
16.80	3.25698	26.55	0.12	2.99	9.34	0.00	0.00	0.00	0.00	1.16	0.14	0.00	0.00	0.00	0.00	3.78

16.70	3.26498	26.54	0.12	2.99	9.35	0.00	0.00	0.00	0.00	1.16	0.14	0.00	0.00	0.00	0.00	3.77
16.60	3.27298	26.53	0.12	3.00	9.35	0.00	0.00	0.00	0.00	1.16	0.13	0.00	0.00	0.00	0.00	3.77
16.50	3.28098	26.52	0.12	3.00	9.35	0.00	0.00	0.00	0.00	1.16	0.13	0.00	0.00	0.00	0.00	3.77
16.40	3.28898	26.51	0.12	3.01	9.35	0.00	0.00	0.00	0.00	1.16	0.13	0.00	0.00	0.00	0.00	3.77
16.30	3.29698	26.50	0.12	3.00	9.37	0.00	0.00	0.00	0.00	1.17	0.13	0.00	0.00	0.00	0.00	3.76
16.20	3.30498	26.51	0.12	2.93	9.45	0.00	0.00	0.00	0.00	0.49	0.09	0.00	0.00	0.00	0.00	2.56
16.10	3.31298	26.52	0.12	2.77	9.68	0.00	0.00	0.00	0.00	0.49	0.09	0.00	0.00	0.00	0.00	2.56
16.00	5.87098	26.53	0.12	2.23	10.52	0.00	0.00	0.00	0.00	0.66	0.09	0.00	0.00	0.00	0.00	2.56
15.90	5.87898	26.54	0.12	2.22	10.53	0.00	0.00	0.00	0.00	0.66	0.09	0.00	0.00	0.00	0.00	2.57
15.80	5.88698	26.55	0.12	2.21	10.55	0.00	0.00	0.00	0.00	0.66	0.09	0.00	0.00	0.00	0.00	2.57
15.70	5.89498	26.56	0.12	2.21	10.56	0.00	0.00	0.00	0.00	0.66	0.09	0.00	0.00	0.00	0.00	2.57
15.60	5.90298	26.56	0.12	2.20	10.57	0.00	0.00	0.00	0.00	0.66	0.09	0.00	0.00	0.00	0.00	2.57
15.50	5.91098	26.57	0.12	2.20	10.58	0.00	0.00	0.00	0.00	0.66	0.09	0.00	0.00	0.00	0.00	2.57
15.40	5.91898	26.58	0.12	2.19	10.59	0.00	0.00	0.00	0.00	0.66	0.09	0.00	0.00	0.00	0.00	2.57
15.30	5.92698	26.59	0.12	2.19	10.60	0.00	0.00	0.00	0.00	0.66	0.09	0.00	0.00	0.00	0.00	2.57
15.20	5.93498	26.60	0.12	2.18	10.61	0.00	0.00	0.00	0.00	0.66	0.09	0.00	0.00	0.00	0.00	2.58
15.10	5.94298	26.61	0.12	2.18	10.62	0.00	0.00	0.00	0.00	0.66	0.09	0.00	0.00	0.00	0.00	2.58
15.00	5.95098	26.62	0.12	2.17	10.63	0.00	0.00	0.00	0.00	0.66	0.09	0.00	0.00	0.00	0.00	2.58
14.90	5.95898	26.63	0.12	2.17	10.64	0.00	0.00	0.00	0.00	0.66	0.09	0.00	0.00	0.00	0.00	2.58
14.80	5.96698	26.64	0.12	2.16	10.64	0.00	0.00	0.00	0.00	0.66	0.09	0.00	0.00	0.00	0.00	2.58
14.70	6.35498	26.65	0.12	2.15	10.63	0.00	0.00	0.00	0.00	0.68	0.09	0.00	0.00	0.00	0.00	2.58
14.60	6.36298	26.66	0.12	2.15	10.64	0.00	0.00	0.00	0.00	0.68	0.10	0.00	0.00	0.00	0.00	2.59
14.50	6.37098	26.67	0.12	2.15	10.65	0.00	0.00	0.00	0.00	0.68	0.10	0.00	0.00	0.00	0.00	2.59
14.40	6.37898	26.68	0.12	2.15	10.66	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.59
14.30	6.38698	26.68	0.12	2.14	10.67	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.59
14.20	6.39498	26.69	0.12	2.14	10.67	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.59
14.10	6.40298	26.70	0.12	2.14	10.68	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.59
14.00	6.41098	26.71	0.12	2.14	10.69	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.59
13.90	6.41898	26.72	0.12	2.14	10.70	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.60
13.80	6.42698	26.73	0.12	2.14	10.71	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.60
13.70	6.43498	26.74	0.12	2.13	10.72	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.60
13.60	6.44298	26.75	0.12	2.13	10.73	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.60
13.50	6.45098	26.76	0.12	2.13	10.74	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.60
13.40	6.45898	26.77	0.12	2.13	10.75	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.60
13.30	6.46698	26.78	0.12	2.13	10.76	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.60
13.20	6.47498	26.79	0.12	2.13	10.77	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.61
13.10	6.48298	26.80	0.12	2.13	10.77	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.61
13.00	6.49098	26.80	0.12	2.13	10.78	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.61
12.90	6.49898	26.81	0.12	2.13	10.79	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.61
12.80	6.50698	26.82	0.12	2.13	10.80	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.61
12.70	6.51498	26.83	0.12	2.13	10.81	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.61
12.60	6.52298	26.84	0.12	2.13	10.82	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.62
12.50	6.53098	26.85	0.12	2.13	10.83	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.62
12.40	6.53898	26.86	0.12	2.13	10.84	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.62
12.30	6.54698	26.87	0.12	2.13	10.85	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.62
12.20	6.55498	26.88	0.12	2.13	10.85	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.62
12.10	6.56298	26.89	0.12	2.13	10.86	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.62
12.00	6.57098	26.90	0.12	2.13	10.87	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.62
11.90	6.57898	26.91	0.12	2.13	10.88	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.63
11.80	6.58698	26.92	0.12	2.13	10.89	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.63
11.70	6.59498	26.92	0.12	2.13	10.90	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.63
11.60	6.60298	26.93	0.12	2.13	10.90	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.63
11.50	6.61098	26.94	0.12	2.13	10.91	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.63
11.40	6.61898	26.95	0.12	2.13	10.92	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.63
11.30	6.62698	26.96	0.12	2.13	10.93	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.64
11.20	6.63498	26.97	0.12	2.13	10.94	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.64

11.10	6.64298	26.98	0.12	2.13	10.95	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.64
11.00	6.65098	26.99	0.12	2.13	10.95	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.64
10.90	6.65898	27.00	0.12	2.14	10.96	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.64
10.80	6.66698	27.01	0.12	2.14	10.97	0.00	0.00	0.00	0.00	0.70	0.10	0.00	0.00	0.00	0.00	2.64
10.70	6.67498	27.02	0.12	2.14	10.98	0.00	0.00	0.00	0.00	0.71	0.10	0.00	0.00	0.00	0.00	2.64
10.60	6.68298	27.03	0.12	2.14	10.99	0.00	0.00	0.00	0.00	0.71	0.10	0.00	0.00	0.00	0.00	2.65
10.50	6.69098	27.04	0.12	2.14	10.99	0.00	0.00	0.00	0.00	0.71	0.10	0.00	0.00	0.00	0.00	2.65
10.40	6.69898	27.04	0.12	2.14	11.00	0.00	0.00	0.00	0.00	0.71	0.10	0.00	0.00	0.00	0.00	2.65
10.30	6.70698	27.05	0.12	2.14	11.01	0.00	0.00	0.00	0.00	0.71	0.10	0.00	0.00	0.00	0.00	2.65
10.20	6.71498	27.06	0.12	2.14	11.02	0.00	0.00	0.00	0.00	0.71	0.10	0.00	0.00	0.00	0.00	2.65
10.10	6.72298	27.07	0.12	2.15	11.03	0.00	0.00	0.00	0.00	0.71	0.10	0.00	0.00	0.00	0.00	2.65
10.00	6.73098	27.08	0.12	2.15	11.03	0.00	0.00	0.00	0.00	0.71	0.10	0.00	0.00	0.00	0.00	2.66
9.90	6.73898	27.09	0.12	2.15	11.04	0.00	0.00	0.00	0.00	0.71	0.10	0.00	0.00	0.00	0.00	2.66
9.80	6.74698	27.10	0.12	2.15	11.05	0.00	0.00	0.00	0.00	0.71	0.10	0.00	0.00	0.00	0.00	2.66
9.70	6.76518	27.11	0.12	2.15	11.06	0.00	0.00	0.00	0.00	0.57	0.10	0.00	0.00	0.00	0.00	1.56
9.60	6.78339	27.12	0.12	2.16	11.08	0.00	0.00	0.00	0.00	0.57	0.10	0.00	0.00	0.00	0.00	1.57
9.50	6.80159	27.13	0.12	2.16	11.09	0.00	0.00	0.00	0.00	0.57	0.10	0.00	0.00	0.00	0.00	1.57
9.40	6.81979	27.14	0.12	2.16	11.10	0.00	0.00	0.00	0.00	0.57	0.10	0.00	0.00	0.00	0.00	1.57
9.30	6.83800	27.15	0.12	2.16	11.11	0.00	0.00	0.00	0.00	0.57	0.10	0.00	0.00	0.00	0.00	1.57
9.20	6.85620	27.16	0.12	2.17	11.13	0.00	0.00	0.00	0.00	0.58	0.10	0.00	0.00	0.00	0.00	1.57
9.10	6.87441	27.16	0.12	2.17	11.14	0.00	0.00	0.00	0.00	0.58	0.10	0.00	0.00	0.00	0.00	1.57
9.00	6.89261	27.17	0.12	2.17	11.15	0.00	0.00	0.00	0.00	0.58	0.10	0.00	0.00	0.00	0.00	1.57
8.90	6.91081	27.18	0.12	2.18	11.16	0.00	0.00	0.00	0.00	0.58	0.10	0.00	0.00	0.00	0.00	1.57
8.80	6.92902	27.19	0.12	2.18	11.17	0.00	0.00	0.00	0.00	0.58	0.10	0.00	0.00	0.00	0.00	1.57
8.70	6.94722	27.20	0.12	2.18	11.19	0.00	0.00	0.00	0.00	0.58	0.10	0.00	0.00	0.00	0.00	1.57
8.60	6.96543	27.21	0.12	2.19	11.20	0.00	0.00	0.00	0.00	0.58	0.10	0.00	0.00	0.00	0.00	1.57
8.50	6.98363	27.22	0.12	2.19	11.21	0.00	0.00	0.00	0.00	0.58	0.10	0.00	0.00	0.00	0.00	1.58
8.40	7.00184	27.23	0.12	2.19	11.22	0.00	0.00	0.00	0.00	0.58	0.10	0.00	0.00	0.00	0.00	1.58
8.30	7.02004	27.24	0.12	2.20	11.23	0.00	0.00	0.00	0.00	0.58	0.10	0.00	0.00	0.00	0.00	1.58
8.20	7.03824	27.25	0.12	2.20	11.24	0.00	0.00	0.00	0.00	0.58	0.10	0.00	0.00	0.00	0.00	1.58
8.10	7.05645	27.26	0.12	2.20	11.25	0.00	0.00	0.00	0.00	0.58	0.10	0.00	0.00	0.00	0.00	1.58
8.00	7.07465	27.27	0.12	2.21	11.26	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	1.58
7.90	7.09286	27.27	0.12	2.21	11.28	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	1.58
7.80	7.11106	27.28	0.12	2.21	11.29	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	1.58
7.70	7.12927	27.29	0.12	2.22	11.30	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	1.58
7.60	7.14747	27.30	0.12	2.22	11.31	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	1.58
7.50	7.16567	27.31	0.12	2.23	11.32	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	1.58
7.40	7.18388	27.32	0.12	2.23	11.33	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	1.59
7.30	7.20208	27.33	0.12	2.23	11.34	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	1.59
7.20	7.22029	27.34	0.12	2.24	11.35	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	1.59
7.10	7.23849	27.35	0.12	2.24	11.36	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	1.59
7.00	7.25669	27.36	0.12	2.24	11.37	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	1.59
6.90	7.27490	27.37	0.12	2.25	11.38	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	1.59
6.80	7.29310	27.38	0.12	2.25	11.39	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.59
6.70	7.31131	27.38	0.12	2.26	11.40	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.59
6.60	7.32951	27.39	0.12	2.26	11.41	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.59
6.50	7.34772	27.40	0.12	2.27	11.42	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.59
6.40	7.36592	27.41	0.12	2.27	11.43	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.59
6.30	7.38412	27.42	0.12	2.27	11.44	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.60
6.20	7.40233	27.43	0.12	2.28	11.45	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.60
6.10	7.42053	27.44	0.12	2.28	11.46	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.60
6.00	7.43874	27.45	0.12	2.29	11.47	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.60
5.90	7.45694	27.46	0.12	2.29	11.48	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.60
5.80	7.47515	27.47	0.11	2.30	11.49	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.60
5.70	7.49335	27.48	0.11	2.30	11.50	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.60
5.60	7.51155	27.49	0.11	2.30	11.51	0.00	0.00	0.00	0.00	0.61	0.10	0.00	0.00	0.00	0.00	1.60

5.50	7.52976	27.49	0.11	2.31	11.52	0.00	0.00	0.00	0.00	0.61	0.10	0.00	0.00	0.00	0.00	1.60
5.40	7.54796	27.50	0.11	2.31	11.53	0.00	0.00	0.00	0.00	0.61	0.10	0.00	0.00	0.00	0.00	1.60
5.30	7.56617	27.51	0.11	2.32	11.54	0.00	0.00	0.00	0.00	0.61	0.10	0.00	0.00	0.00	0.00	1.61
5.20	7.58437	27.52	0.11	2.32	11.55	0.00	0.00	0.00	0.00	0.61	0.10	0.00	0.00	0.00	0.00	1.61
5.10	7.60257	27.53	0.11	2.33	11.56	0.00	0.00	0.00	0.00	0.61	0.10	0.00	0.00	0.00	0.00	1.61
5.00	7.62078	27.54	0.11	2.33	11.57	0.00	0.00	0.00	0.00	0.61	0.10	0.00	0.00	0.00	0.00	1.61
4.90	7.63898	27.55	0.11	2.34	11.58	0.00	0.00	0.00	0.00	0.61	0.10	0.00	0.00	0.00	0.00	1.61
4.80	7.65719	27.56	0.11	2.34	11.58	0.00	0.00	0.00	0.00	0.61	0.10	0.00	0.00	0.00	0.00	1.61
4.70	7.67539	27.57	0.11	2.34	11.59	0.00	0.00	0.00	0.00	0.61	0.10	0.00	0.00	0.00	0.00	1.61
4.60	7.69360	27.58	0.11	2.35	11.60	0.00	0.00	0.00	0.00	0.61	0.10	0.00	0.00	0.00	0.00	1.61
4.50	7.71180	27.59	0.11	2.35	11.61	0.00	0.00	0.00	0.00	0.61	0.10	0.00	0.00	0.00	0.00	1.61
4.40	7.73000	27.60	0.11	2.36	11.62	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	1.61
4.30	7.74821	27.61	0.11	2.36	11.63	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	1.61
4.20	7.76641	27.61	0.11	2.37	11.64	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	1.62
4.10	7.78462	27.62	0.11	2.37	11.65	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	1.62
4.00	7.80282	27.63	0.11	2.38	11.65	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	1.62
3.90	7.82103	27.64	0.11	2.38	11.66	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	1.62
3.80	7.83923	27.65	0.11	2.39	11.67	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	1.62
3.70	7.85743	27.66	0.11	2.39	11.68	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	1.62
3.60	7.87564	27.67	0.11	2.39	11.69	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	1.62
3.50	7.89384	27.68	0.11	2.40	11.70	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	1.62
3.40	7.91205	27.69	0.11	2.40	11.70	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	1.62
3.30	7.93025	27.70	0.11	2.41	11.71	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	1.62
3.20	7.94845	27.71	0.11	2.41	11.72	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	1.62
3.10	7.96666	27.72	0.11	2.42	11.73	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	1.63
3.00	7.98486	27.72	0.11	2.42	11.74	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	1.63
2.90	8.00307	27.73	0.11	2.43	11.74	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	1.63
2.80	8.02127	27.74	0.11	2.43	11.75	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	1.63
2.70	8.03947	27.75	0.11	2.44	11.76	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	1.63
2.60	8.05768	27.76	0.11	2.44	11.77	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	1.63
2.50	8.07588	27.77	0.11	2.45	11.77	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	1.63
2.40	8.09409	27.78	0.11	2.45	11.78	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	1.63
2.30	8.11229	27.79	0.11	2.46	11.79	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	1.63
2.20	8.13049	27.80	0.11	2.46	11.80	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	1.63
2.10	8.14870	27.81	0.11	2.46	11.80	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	1.64
2.00	8.16690	27.82	0.11	2.47	11.81	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	1.64
1.90	8.18510	27.83	0.10	2.47	11.82	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	1.64
1.80	8.20331	27.83	0.10	2.48	11.83	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	1.64
1.70	8.22151	27.84	0.10	2.48	11.83	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	1.64
1.60	8.23972	27.85	0.10	2.49	11.84	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	1.64
1.50	8.25792	27.86	0.10	2.49	11.85	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	1.64
1.40	8.27612	27.87	0.10	2.50	11.86	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	1.64
1.30	8.29433	27.88	0.10	2.50	11.86	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	1.64
1.20	8.31253	27.89	0.10	2.51	11.87	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	1.64
1.10	8.33073	27.90	0.10	2.51	11.88	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	1.64
1.00	8.34894	27.91	0.10	2.52	11.88	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	1.65
0.90	8.36714	27.92	0.10	2.52	11.89	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	1.65
0.80	8.38535	27.93	0.10	2.52	11.90	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	1.65
0.70	8.40355	27.94	0.10	2.53	11.91	0.00	0.00	0.00	0.00	0.65	0.10	0.00	0.00	0.00	0.00	1.65
0.60	8.42175	27.94	0.10	2.53	11.91	0.00	0.00	0.00	0.00	0.65	0.10	0.00	0.00	0.00	0.00	1.65
0.50	8.43996	27.95	0.10	2.54	11.92	0.00	0.00	0.00	0.00	0.65	0.10	0.00	0.00	0.00	0.00	1.65
0.40	8.45816	27.96	0.10	2.54	11.93	0.00	0.00	0.00	0.00	0.65	0.10	0.00	0.00	0.00	0.00	1.65
0.30	8.47636	27.97	0.10	2.55	11.93	0.00	0.00	0.00	0.00	0.65	0.10	0.00	0.00	0.00	0.00	1.65
0.20	8.49457	27.98	0.10	2.58	11.95	0.00	0.00	0.00	0.00	0.65	0.10	0.00	0.00	0.00	0.00	1.65
0.10	8.51277	27.99	0.10	2.73	12.04	0.00	0.00	0.00	0.00	0.65	0.10	0.00	0.00	0.00	0.00	1.65
0.00	8.53098	28.00	0.10	3.69	12.58	0.00	0.00	0.00	0.00	0.65	0.10	0.00	0.00	0.00	0.00	1.65

CONDENSED CAPSULE SUMMARY FOR Bayou Verret

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	0.31100	26.60	0.25	2.14	20.97	0.00	0.00	0.00	0.00							
3.10	0.31900	26.47	0.19	2.22	20.41	0.00	0.00	0.00	0.00	1.45	0.12	0.00	0.00	0.00	0.00	3.31
3.00	0.32700	26.43	0.19	2.28	20.06	0.00	0.00	0.00	0.00	1.46	0.12	0.00	0.00	0.00	0.00	3.30
2.90	0.33500	26.40	0.18	2.33	19.72	0.00	0.00	0.00	0.00	1.47	0.12	0.00	0.00	0.00	0.00	3.29
2.80	0.34300	26.36	0.18	2.38	19.41	0.00	0.00	0.00	0.00	1.48	0.12	0.00	0.00	0.00	0.00	3.28
2.70	0.35100	26.33	0.18	2.44	19.10	0.00	0.00	0.00	0.00	1.49	0.12	0.00	0.00	0.00	0.00	3.28
2.60	0.35900	26.29	0.17	2.49	18.82	0.00	0.00	0.00	0.00	1.50	0.12	0.00	0.00	0.00	0.00	3.27
2.50	0.36700	26.26	0.17	2.55	18.55	0.00	0.00	0.00	0.00	1.51	0.12	0.00	0.00	0.00	0.00	3.26
2.40	0.37500	26.23	0.16	2.60	18.29	0.00	0.00	0.00	0.00	1.51	0.12	0.00	0.00	0.00	0.00	3.26
2.30	0.38300	26.19	0.16	2.65	18.04	0.00	0.00	0.00	0.00	1.52	0.12	0.00	0.00	0.00	0.00	3.25
2.20	0.39100	26.16	0.16	2.70	17.81	0.00	0.00	0.00	0.00	1.53	0.12	0.00	0.00	0.00	0.00	3.24
2.10	0.39900	26.12	0.15	2.75	17.58	0.00	0.00	0.00	0.00	1.54	0.12	0.00	0.00	0.00	0.00	3.23
2.00	0.40700	26.09	0.15	2.81	17.37	0.00	0.00	0.00	0.00	1.55	0.12	0.00	0.00	0.00	0.00	3.23
1.90	0.41500	26.05	0.15	2.85	17.16	0.00	0.00	0.00	0.00	1.56	0.12	0.00	0.00	0.00	0.00	3.22
1.80	0.42300	26.02	0.14	2.90	16.97	0.00	0.00	0.00	0.00	1.57	0.12	0.00	0.00	0.00	0.00	3.21
1.70	0.43100	25.98	0.14	2.95	16.78	0.00	0.00	0.00	0.00	1.58	0.12	0.00	0.00	0.00	0.00	3.21
1.60	0.43900	25.95	0.13	3.00	16.60	0.00	0.00	0.00	0.00	1.59	0.12	0.00	0.00	0.00	0.00	3.20
1.50	0.44700	25.92	0.13	3.05	16.42	0.00	0.00	0.00	0.00	1.60	0.12	0.00	0.00	0.00	0.00	3.19
1.40	0.45500	25.88	0.13	3.09	16.26	0.00	0.00	0.00	0.00	1.61	0.12	0.00	0.00	0.00	0.00	3.18
1.30	0.46300	25.85	0.12	3.14	16.10	0.00	0.00	0.00	0.00	1.62	0.12	0.00	0.00	0.00	0.00	3.18
1.20	0.47100	25.81	0.12	3.18	15.95	0.00	0.00	0.00	0.00	1.62	0.12	0.00	0.00	0.00	0.00	3.17
1.10	0.47900	25.78	0.12	3.22	15.80	0.00	0.00	0.00	0.00	1.63	0.12	0.00	0.00	0.00	0.00	3.16
1.00	0.48700	25.74	0.11	3.27	15.66	0.00	0.00	0.00	0.00	1.64	0.12	0.00	0.00	0.00	0.00	3.16
0.90	0.49500	25.71	0.11	3.31	15.52	0.00	0.00	0.00	0.00	1.65	0.12	0.00	0.00	0.00	0.00	3.15
0.80	0.50300	25.67	0.11	3.35	15.39	0.00	0.00	0.00	0.00	1.66	0.12	0.00	0.00	0.00	0.00	3.14
0.70	0.51100	25.64	0.10	3.39	15.26	0.00	0.00	0.00	0.00	1.67	0.12	0.00	0.00	0.00	0.00	3.14
0.60	0.51900	25.61	0.10	3.43	15.14	0.00	0.00	0.00	0.00	1.68	0.12	0.00	0.00	0.00	0.00	3.13
0.50	0.52700	25.57	0.09	3.47	15.02	0.00	0.00	0.00	0.00	1.69	0.12	0.00	0.00	0.00	0.00	3.12
0.40	0.53500	25.54	0.09	3.51	14.91	0.00	0.00	0.00	0.00	1.70	0.12	0.00	0.00	0.00	0.00	3.12
0.30	0.54300	25.50	0.09	3.55	14.79	0.00	0.00	0.00	0.00	1.71	0.12	0.00	0.00	0.00	0.00	3.11
0.20	0.55100	25.47	0.08	3.57	14.63	0.00	0.00	0.00	0.00	1.71	0.12	0.00	0.00	0.00	0.00	3.10
0.10	0.55900	25.43	0.08	3.53	14.27	0.00	0.00	0.00	0.00	1.72	0.12	0.00	0.00	0.00	0.00	3.09
0.00	0.56700	25.40	0.08	3.19	12.99	0.00	0.00	0.00	0.00	1.73	0.12	0.00	0.00	0.00	0.00	3.09

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 1 Baker Canal East REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO

********** 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	1.00000	25.43	0.07	9.30	172.00	1.50	10.02	0.00	10.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.40
EACH	INCR	0.00800	0.00	0.00	28.90	243.00	2.91	11.74	0.00			0.00	0.00	0.00	0.00	0.00	4.07	

********** 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	38.30	38.20	1.00800	0.0	0.03953	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.040
2	38.20	38.10	1.01600	0.0	0.03984	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.040
3	38.10	38.00	1.02400	0.0	0.04015	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.040
4	38.00	37.90	1.03200	0.0	0.04047	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.040
5	37.90	37.80	1.04000	0.0	0.04078	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.041
6	37.80	37.70	1.04800	0.0	0.04109	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.041
7	37.70	37.60	1.05600	0.0	0.04141	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.041
8	37.60	37.50	1.06400	0.0	0.04172	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.042
9	37.50	37.40	1.07200	0.0	0.04204	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.042
10	37.40	37.30	1.08000	0.0	0.04235	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.042
11	37.30	37.20	1.08800	0.0	0.04266	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.043
12	37.20	37.10	1.09600	0.0	0.04298	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.043
13	37.10	37.00	1.10400	0.0	0.04329	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.043
14	37.00	36.90	1.11200	0.0	0.04360	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.044
15	36.90	36.80	1.12000	0.0	0.04392	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.044
16	36.80	36.70	1.12800	0.0	0.04423	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.044
17	36.70	36.60	1.13600	0.0	0.04455	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.045
18	36.60	36.50	1.14400	0.0	0.04486	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.045
19	36.50	36.40	1.15200	0.0	0.04517	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.045
20	36.40	36.30	1.16000	0.0	0.04549	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.045
21	36.30	36.20	1.16800	0.0	0.04580	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.046
22	36.20	36.10	1.17600	0.0	0.04611	0.03	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.046
23	36.10	36.00	1.18400	0.0	0.04643	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.046
24	36.00	35.90	1.19200	0.0	0.04674	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.047
25	35.90	35.80	1.20000	0.0	0.04705	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.047
26	35.80	35.70	1.20800	0.0	0.04737	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.047
27	35.70	35.60	1.21600	0.0	0.04768	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.048
28	35.60	35.50	1.22400	0.0	0.04800	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.048
29	35.50	35.40	1.23200	0.0	0.04831	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.048
30	35.40	35.30	1.24000	0.0	0.04862	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.049
31	35.30	35.20	1.24800	0.0	0.04894	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.049
TOT						0.81			79056.80	84103.00					
AVG					0.04405		0.94	27.13			25.50				
CUM						0.81									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	38.200	8.20	0.95	0.09	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.12	0.00
2	38.100	8.20	0.95	0.09	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.13	0.00
3	38.000	8.20	0.96	0.09	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.15	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.13	0.00
4	37.900	8.20	0.96	0.10	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.13	0.00
5	37.800	8.20	0.97	0.10	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.28	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.13	0.00
6	37.700	8.20	0.97	0.10	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.14	0.00
7	37.600	8.20	0.97	0.10	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.38	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.14	0.00

8	37.500	8.20	0.98	0.10	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.14	0.00
9	37.400	8.20	0.98	0.10	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.46	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.14	0.00
10	37.300	8.20	0.98	0.10	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.14	0.00
11	37.200	8.20	0.99	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.14	0.00
12	37.100	8.20	0.99	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.15	0.00
13	37.000	8.20	0.99	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.15	0.00
14	36.900	8.20	1.00	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.15	0.00
15	36.800	8.20	1.00	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.15	0.00
16	36.700	8.20	1.01	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.68	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.15	0.00
17	36.600	8.20	1.01	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.15	0.00
18	36.500	8.20	1.01	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.72	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.15	0.00
19	36.400	8.20	1.02	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.15	0.00
20	36.300	8.20	1.02	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.76	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.15	0.00
21	36.200	8.20	1.02	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.78	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
22	36.100	8.20	1.03	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
23	36.000	8.20	1.03	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
24	35.900	8.20	1.03	0.11	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
25	35.800	8.20	1.04	0.12	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
26	35.700	8.20	1.04	0.12	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
27	35.600	8.20	1.04	0.12	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
28	35.500	8.20	1.05	0.12	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
29	35.400	8.20	1.05	0.12	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
30	35.300	8.20	1.05	0.12	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
31	35.200	8.20	1.06	0.12	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
AVG 20 DEG C RATE			0.91	0.09	0.00	0.00	0.00	0.00	0.00	2.75			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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	38.200	25.40	0.08	9.49	172.68	1.56	10.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	8.32
2	38.100	25.40	0.08	9.64	173.24	1.60	9.99	0.00	9.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	8.26
3	38.000	25.40	0.08	9.79	173.78	1.63	9.98	0.00	9.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	8.19
4	37.900	25.40	0.08	9.94	174.31	1.67	9.96	0.00	9.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	8.13
5	37.800	25.40	0.08	10.08	174.84	1.70	9.95	0.00	9.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	8.07
6	37.700	25.40	0.08	10.23	175.36	1.72	9.94	0.00	9.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	8.01
7	37.600	25.40	0.08	10.37	175.87	1.75	9.92	0.00	9.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.95
8	37.500	25.40	0.08	10.51	176.37	1.77	9.91	0.00	9.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.89
9	37.400	25.40	0.08	10.64	176.87	1.79	9.89	0.00	9.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.83
10	37.300	25.40	0.08	10.78	177.36	1.81	9.88	0.00	9.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.77
11	37.200	25.40	0.08	10.91	177.84	1.83	9.86	0.00	9.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.71
12	37.100	25.40	0.08	11.04	178.31	1.85	9.85	0.00	9.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.66
13	37.000	25.40	0.08	11.17	178.78	1.86	9.83	0.00	9.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.60
14	36.900	25.40	0.08	11.30	179.24	1.88	9.82	0.00	9.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.55
15	36.800	25.40	0.08	11.42	179.70	1.89	9.81	0.00	9.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.49
16	36.700	25.40	0.08	11.55	180.14	1.90	9.79	0.00	9.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.44
17	36.600	25.40	0.08	11.67	180.58	1.92	9.78	0.00	9.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.39
18	36.500	25.40	0.08	11.79	181.02	1.93	9.76	0.00	9.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.33
19	36.400	25.40	0.08	11.91	181.45	1.94	9.75	0.00	9.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.28
20	36.300	25.40	0.08	12.03	181.87	1.95	9.73	0.00	9.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.23
21	36.200	25.40	0.08	12.14	182.29	1.96	9.72	0.00	9.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.18

22	36.100	25.40	0.08	12.25	182.70	1.97	9.71	0.00	9.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.13
23	36.000	25.40	0.08	12.37	183.11	1.98	9.69	0.00	9.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.09
24	35.900	25.40	0.08	12.48	183.51	1.99	9.68	0.00	9.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	7.04
25	35.800	25.40	0.08	12.59	183.91	2.00	9.67	0.00	9.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	6.99
26	35.700	25.40	0.08	12.69	184.30	2.01	9.65	0.00	9.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	6.95
27	35.600	25.40	0.08	12.80	184.68	2.02	9.64	0.00	9.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	6.90
28	35.500	25.40	0.08	12.91	185.08	2.03	9.63	0.00	9.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	6.86
29	35.400	25.40	0.08	13.05	185.54	2.04	9.62	0.00	9.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	6.81
30	35.300	25.40	0.08	13.36	186.45	2.06	9.64	0.00	9.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	6.75
31	35.200	25.40	0.08	14.87	190.42	2.13	9.82	0.00	9.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	6.59

********** 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
64	UPR RCH	1.24800	25.40	0.08	14.87	190.42	2.13	9.82	0.00	9.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.59
64	TRIB	0.56700	25.40	0.08	37.69	248.96	3.19	12.99	0.00	12.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.65
EACH	INCR	0.00800	0.00	0.00	28.90	243.00	2.91	11.74	0.00			0.00	0.00	0.00	0.00	0.00	4.07	

********** 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
64	35.20	35.10	1.82300	0.0	0.07148	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.071
65	35.10	35.00	1.83100	0.0	0.07180	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.072
66	35.00	34.90	1.83900	0.0	0.07211	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.072
67	34.90	34.80	1.84700	0.0	0.07243	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.072
68	34.80	34.70	1.85500	0.0	0.07274	0.02	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.073
TOT						0.08			12751.10	13565.00					
AVG					0.07211		0.94	27.13			25.50				
CUM						0.89									

********** 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
64	35.100	8.15	1.29	0.12	0.00	0.00	0.00	0.00	0.00	4.30	4.30	4.29	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
65	35.000	8.11	1.30	0.12	0.00	0.00	0.00	0.00	0.00	4.38	4.38	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
66	34.900	8.06	1.31	0.12	0.00	0.00	0.00	0.00	0.00	4.46	4.46	4.46	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
67	34.800	8.02	1.32	0.12	0.00	0.00	0.00	0.00	0.00	4.55	4.55	4.55	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
68	34.700	7.98	1.33	0.12	0.00	0.00	0.00	0.00	0.00	4.63	4.63	4.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			1.16	0.09	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	0.11	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
64	35.100	25.70	0.08	24.29	214.65	2.57	11.12	0.00	11.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.77
65	35.000	26.00	0.09	24.31	214.77	2.58	11.11	0.00	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.75
66	34.900	26.30	0.10	24.33	214.89	2.58	11.09	0.00	11.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.73
67	34.800	26.60	0.10	24.35	215.01	2.58	11.08	0.00	11.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.70
68	34.700	26.90	0.11	24.37	215.13	2.58	11.07	0.00	11.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.68

FINAL REPORT Baker Canal East — LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 4 Bayou Citamon — REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO

********** 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
69	UPR RCH	1.85500	26.90	0.11	24.37	215.13	2.58	11.07	0.00	11.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.68
EACH	INCR	0.00800	0.00	0.00	28.90	243.00	2.91	11.74	0.00			0.00	0.00	0.00	0.00	0.00	4.07	

********** 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
69	34.70	34.60	1.86300	0.0	0.08165	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.082
70	34.60	34.50	1.87100	0.0	0.08200	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.082
71	34.50	34.40	1.87900	0.0	0.08235	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.082
72	34.40	34.30	1.88700	0.0	0.08270	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.083
73	34.30	34.20	1.89500	0.0	0.08305	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.083
74	34.20	34.10	1.90300	0.0	0.08340	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.083
75	34.10	34.00	1.91100	0.0	0.08375	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.084
76	34.00	33.90	1.91900	0.0	0.08410	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.084
77	33.90	33.80	1.92700	0.0	0.08445	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.084
78	33.80	33.70	1.93500	0.0	0.08480	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.085
79	33.70	33.60	1.94300	0.0	0.08515	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.085
80	33.60	33.50	1.95100	0.0	0.08550	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.086
81	33.50	33.40	1.95900	0.0	0.08585	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.086
82	33.40	33.30	1.96700	0.0	0.08621	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.086
83	33.30	33.20	1.97500	0.0	0.08656	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.087
84	33.20	33.10	1.98300	0.0	0.08691	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.087
85	33.10	33.00	1.99100	0.0	0.08726	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.087
86	33.00	32.90	1.99900	0.0	0.08761	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.088
87	32.90	32.80	2.00700	0.0	0.08796	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.088
88	32.80	32.70	2.01500	0.0	0.08831	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.088
89	32.70	32.60	2.02300	0.0	0.08866	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.089
90	32.60	32.50	2.03100	0.0	0.08901	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.089
91	32.50	32.40	2.03900	0.0	0.08936	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.089
92	32.40	32.30	2.04700	0.0	0.08971	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.090
93	32.30	32.20	2.05500	0.0	0.09006	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.090

94	32.20	32.10	2.06300	0.0	0.09041	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.090
95	32.10	32.00	2.07100	0.0	0.09076	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.091
96	32.00	31.90	2.07900	0.0	0.09111	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.091
97	31.90	31.80	2.08700	0.0	0.09146	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.091
98	31.80	31.70	2.09500	0.0	0.09182	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.092
99	31.70	31.60	2.10300	0.0	0.09217	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.092
100	31.60	31.50	2.11100	0.0	0.09252	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.093
101	31.50	31.40	2.11900	0.0	0.09287	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.093
102	31.40	31.30	2.12700	0.0	0.09322	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.093
103	31.30	31.20	2.13500	0.0	0.09357	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.094
104	31.20	31.10	2.14300	0.0	0.09392	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.094
105	31.10	31.00	2.15100	0.0	0.09427	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.094
106	31.00	30.90	2.15900	0.0	0.09462	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.095
107	30.90	30.80	2.16700	0.0	0.09497	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.095
108	30.80	30.70	2.17500	0.0	0.09532	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.095
109	30.70	30.60	2.18300	0.0	0.09567	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.096
110	30.60	30.50	2.19100	0.0	0.09602	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.096
111	30.50	30.40	2.19900	0.0	0.09637	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.096
112	30.40	30.30	2.20700	0.0	0.09672	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.097
113	30.30	30.20	2.21500	0.0	0.09707	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.097
114	30.20	30.10	2.22300	0.0	0.09742	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.097
115	30.10	30.00	2.23100	0.0	0.09778	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.098
116	30.00	29.90	2.23900	0.0	0.09813	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.098
117	29.90	29.80	2.24700	0.0	0.09848	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.098
118	29.80	29.70	2.25500	0.0	0.09883	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.099
119	29.70	29.60	2.26300	0.0	0.09918	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.099
120	29.60	29.50	2.27100	0.0	0.09953	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.100
121	29.50	29.40	2.27900	0.0	0.09988	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.100
122	29.40	29.30	2.28700	0.0	0.10023	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.100
123	29.30	29.20	2.29500	0.0	0.10058	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.101
124	29.20	29.10	2.30300	0.0	0.10093	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.101
125	29.10	29.00	2.31100	0.0	0.10128	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.101
126	29.00	28.90	2.31900	0.0	0.10163	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.102
127	28.90	28.80	2.32700	0.0	0.10198	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.102
128	28.80	28.70	2.33500	0.0	0.10233	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.102
129	28.70	28.60	2.34300	0.0	0.10268	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.103
130	28.60	28.50	2.35100	0.0	0.10303	0.01	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.103
TOT						0.78			141469.11	136028.00					
AVG					0.09191		1.04	21.94			22.82				
CUM						1.68									

********** 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
69	34.600	7.98	1.21	0.14	0.00	0.00	0.00	0.00	0.00	5.40	5.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
70	34.500	7.98	1.21	0.14	0.00	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
71	34.400	7.98	1.21	0.14	0.00	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
72	34.300	7.99	1.21	0.14	0.00	0.00	0.00	0.00	0.00	5.39	5.39	5.39	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
73	34.200	7.99	1.22	0.14	0.00	0.00	0.00	0.00	0.00	5.38	5.38	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
74	34.100	7.99	1.22	0.14	0.00	0.00	0.00	0.00	0.00	5.38	5.38	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
75	34.000	7.99	1.22	0.14	0.00	0.00	0.00	0.00	0.00	5.37	5.37	5.37	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
76	33.900	7.99	1.22	0.14	0.00	0.00	0.00	0.00	0.00	5.37	5.37	5.37	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
77	33.800	8.00	1.22	0.14	0.00	0.00	0.00	0.00	0.00	5.36	5.36	5.36	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
78	33.700	8.00	1.23	0.14	0.00	0.00	0.00	0.00	0.00	5.36	5.36	5.36	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
79	33.600	8.00	1.23	0.14	0.00	0.00	0.00	0.00	0.00	5.35	5.35	5.35	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
80	33.500	8.00	1.23	0.14	0.00	0.00	0.00	0.00	0.00	5.35	5.35	5.35	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
81	33.400	8.00	1.23	0.14	0.00	0.00	0.00	0.00	0.00	5.34	5.34	5.34	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
82	33.300	8.01	1.24	0.14	0.00	0.00	0.00	0.00	0.00	5.34	5.34	5.34	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
83	33.200	8.01	1.24	0.14	0.00	0.00	0.00	0.00	0.00	5.33	5.33	5.33	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
84	33.100	8.01	1.24	0.14	0.00	0.00	0.00	0.00	0.00	5.33	5.33	5.33	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
85	33.000	8.01	1.24	0.14	0.00	0.00	0.00	0.00	0.00	5.32	5.32	5.32	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
86	32.900	8.02	1.24	0.14	0.00	0.00	0.00	0.00	0.00	5.32	5.32	5.32	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
87	32.800	8.02	1.25	0.14	0.00	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
88	32.700	8.02	1.25	0.14	0.00	0.00	0.00	0.00	0.00	5.31	5.31	5.31	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
89	32.600	8.02	1.25	0.14	0.00	0.00	0.00	0.00	0.00	5.30	5.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
90	32.500	8.02	1.25	0.14	0.00	0.00	0.00	0.00	0.00	5.30	5.30	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
91	32.400	8.03	1.25	0.14	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
92	32.300	8.03	1.26	0.14	0.00	0.00	0.00	0.00	0.00	5.29	5.29	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
93	32.200	8.03	1.26	0.14	0.00	0.00	0.00	0.00	0.00	5.28	5.28	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
94	32.100	8.03	1.26	0.13	0.00	0.00	0.00	0.00	0.00	5.28	5.28	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
95	32.000	8.03	1.26	0.13	0.00	0.00	0.00	0.00	0.00	5.27	5.27	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
96	31.900	8.04	1.27	0.13	0.00	0.00	0.00	0.00	0.00	5.27	5.27	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
97	31.800	8.04	1.27	0.13	0.00	0.00	0.00	0.00	0.00	5.26	5.26	5.26	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
98	31.700	8.04	1.27	0.13	0.00	0.00	0.00	0.00	0.00	5.26	5.26	5.26	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
99	31.600	8.04	1.27	0.13	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	0.16	0.00	0.00	0.29	0.00
100	31.500	8.04	1.27	0.13	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	0.16	0.00	0.00	0.29	0.00
101	31.400	8.05	1.28	0.13	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	0.16	0.00	0.00	0.29	0.00
102	31.300	8.05	1.28	0.13	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	0.16	0.00	0.00	0.29	0.00
103	31.200	8.05	1.28	0.13	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	0.16	0.00	0.00	0.29	0.00
104	31.100	8.05	1.28	0.13	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	0.16	0.00	0.00	0.29	0.00
105	31.000	8.06	1.28	0.13	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	0.16	0.00	0.00	0.29	0.00
106	30.900	8.06	1.29	0.13	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	0.16	0.00	0.00	0.29	0.00
107	30.800	8.06	1.29	0.13	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	0.16	0.00	0.00	0.29	0.00
108	30.700	8.06	1.29	0.13	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	0.16	0.00	0.00	0.29	0.00
109	30.600	8.06	1.29	0.13	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	0.16	0.00	0.00	0.29	0.00
110	30.500	8.07	1.29	0.13	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	0.16	0.00	0.00	0.29	0.00
111	30.400	8.07	1.30	0.13	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	0.16	0.00	0.00	0.29	0.00
112	30.300	8.07	1.30	0.13	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	0.16	0.00	0.00	0.29	0.00
113	30.200	8.07	1.30	0.13	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	0.16	0.00	0.00	0.29	0.00
114	30.100	8.07	1.30	0.13	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	0.16	0.00	0.00	0.29	0.00
115	30.000	8.08	1.30	0.13	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	0.16	0.00	0.00	0.29	0.00
116	29.900	8.08	1.31	0.13	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	0.16	0.00	0.00	0.29	0.00
117	29.800	8.08	1.31	0.13	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	0.16	0.00	0.00	0.29	0.00
118	29.700	8.08	1.31	0.13	0.00	0.00	0.00	0.00	0.00	5.16	5.16	5.16	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00

119	29.600	8.09	1.31	0.13	0.00	0.00	0.00	0.00	0.00	5.16	5.16	5.16	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
120	29.500	8.09	1.31	0.13	0.00	0.00	0.00	0.00	0.00	5.15	5.15	5.15	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
121	29.400	8.09	1.32	0.13	0.00	0.00	0.00	0.00	0.00	5.15	5.15	5.15	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
122	29.300	8.09	1.32	0.13	0.00	0.00	0.00	0.00	0.00	5.14	5.14	5.14	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
123	29.200	8.09	1.32	0.13	0.00	0.00	0.00	0.00	0.00	5.14	5.14	5.14	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
124	29.100	8.10	1.32	0.13	0.00	0.00	0.00	0.00	0.00	5.14	5.14	5.14	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
125	29.000	8.10	1.32	0.13	0.00	0.00	0.00	0.00	0.00	5.13	5.13	5.13	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
126	28.900	8.10	1.33	0.13	0.00	0.00	0.00	0.00	0.00	5.13	5.13	5.13	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
127	28.800	8.10	1.33	0.13	0.00	0.00	0.00	0.00	0.00	5.12	5.12	5.12	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
128	28.700	8.10	1.33	0.13	0.00	0.00	0.00	0.00	0.00	5.12	5.12	5.12	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
129	28.600	8.11	1.33	0.13	0.00	0.00	0.00	0.00	0.00	5.11	5.11	5.11	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
130	28.500	8.11	1.33	0.13	0.00	0.00	0.00	0.00	0.00	5.11	5.11	5.11	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
AVG 20 DEG C RATE			1.13	0.10	0.00	0.00	0.00	0.00	0.00	3.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.19	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
69	34.600	26.89	0.11	24.39	215.25	2.55	11.05	0.00	11.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.65
70	34.500	26.87	0.11	24.41	215.37	2.53	11.03	0.00	11.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.62
71	34.400	26.86	0.11	24.43	215.49	2.51	11.01	0.00	11.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.59
72	34.300	26.84	0.11	24.45	215.60	2.48	11.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.56
73	34.200	26.83	0.11	24.47	215.72	2.46	10.98	0.00	10.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.53
74	34.100	26.81	0.11	24.49	215.83	2.44	10.96	0.00	10.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.50
75	34.000	26.80	0.11	24.50	215.95	2.43	10.95	0.00	10.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.47
76	33.900	26.78	0.11	24.52	216.06	2.41	10.93	0.00	10.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.44
77	33.800	26.77	0.11	24.54	216.17	2.39	10.91	0.00	10.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.41
78	33.700	26.75	0.11	24.56	216.28	2.37	10.90	0.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.39
79	33.600	26.74	0.11	24.58	216.39	2.36	10.88	0.00	10.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.36
80	33.500	26.73	0.11	24.59	216.50	2.34	10.86	0.00	10.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.33
81	33.400	26.71	0.11	24.61	216.61	2.33	10.85	0.00	10.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.31
82	33.300	26.70	0.11	24.63	216.72	2.32	10.83	0.00	10.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.28
83	33.200	26.68	0.11	24.65	216.82	2.30	10.82	0.00	10.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.25
84	33.100	26.67	0.11	24.66	216.93	2.29	10.80	0.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.23
85	33.000	26.65	0.11	24.68	217.03	2.28	10.79	0.00	10.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.20
86	32.900	26.64	0.11	24.70	217.14	2.27	10.77	0.00	10.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.18
87	32.800	26.62	0.11	24.71	217.24	2.26	10.76	0.00	10.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.15
88	32.700	26.61	0.11	24.73	217.34	2.25	10.74	0.00	10.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.13
89	32.600	26.60	0.11	24.75	217.44	2.25	10.73	0.00	10.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.11
90	32.500	26.58	0.11	24.76	217.55	2.24	10.71	0.00	10.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.08
91	32.400	26.57	0.11	24.78	217.64	2.23	10.70	0.00	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.06
92	32.300	26.55	0.11	24.80	217.74	2.22	10.68	0.00	10.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.04
93	32.200	26.54	0.11	24.81	217.84	2.22	10.67	0.00	10.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	5.01
94	32.100	26.52	0.11	24.83	217.94	2.21	10.66	0.00	10.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.99
95	32.000	26.51	0.11	24.84	218.04	2.21	10.64	0.00	10.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.97
96	31.900	26.49	0.11	24.86	218.13	2.20	10.63	0.00	10.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.95
97	31.800	26.48	0.11	24.87	218.23	2.20	10.62	0.00	10.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.92
98	31.700	26.46	0.11	24.89	218.32	2.19	10.60	0.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.90
99	31.600	26.45	0.11	24.91	218.42	2.19	10.59	0.00	10.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.88
100	31.500	26.44	0.10	24.92	218.51	2.19	10.58	0.00	10.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.86
101	31.400	26.42	0.10	24.94	218.60	2.19	10.56	0.00	10.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.84

102	31.300	26.41	0.10	24.95	218.69	2.18	10.55	0.00	10.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.82
103	31.200	26.39	0.10	24.97	218.78	2.18	10.54	0.00	10.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.80
104	31.100	26.38	0.10	24.98	218.87	2.18	10.53	0.00	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.78
105	31.000	26.36	0.10	24.99	218.96	2.18	10.51	0.00	10.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.76
106	30.900	26.35	0.10	25.01	219.05	2.18	10.50	0.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.74
107	30.800	26.33	0.10	25.02	219.14	2.18	10.49	0.00	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.72
108	30.700	26.32	0.10	25.04	219.23	2.18	10.48	0.00	10.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.70
109	30.600	26.30	0.10	25.05	219.32	2.18	10.47	0.00	10.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.68
110	30.500	26.29	0.10	25.07	219.40	2.18	10.45	0.00	10.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.66
111	30.400	26.28	0.10	25.08	219.49	2.18	10.44	0.00	10.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.65
112	30.300	26.26	0.10	25.09	219.57	2.19	10.43	0.00	10.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.63
113	30.200	26.25	0.10	25.11	219.66	2.19	10.42	0.00	10.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.61
114	30.100	26.23	0.10	25.12	219.74	2.19	10.41	0.00	10.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.59
115	30.000	26.22	0.10	25.13	219.83	2.19	10.40	0.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.57
116	29.900	26.20	0.10	25.15	219.91	2.20	10.39	0.00	10.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.56
117	29.800	26.19	0.10	25.16	219.99	2.20	10.38	0.00	10.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.54
118	29.700	26.17	0.10	25.17	220.07	2.20	10.36	0.00	10.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.52
119	29.600	26.16	0.10	25.19	220.15	2.21	10.35	0.00	10.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.51
120	29.500	26.15	0.10	25.20	220.23	2.21	10.34	0.00	10.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.49
121	29.400	26.13	0.10	25.21	220.31	2.21	10.33	0.00	10.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.47
122	29.300	26.12	0.10	25.23	220.39	2.22	10.32	0.00	10.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.46
123	29.200	26.10	0.10	25.24	220.47	2.22	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.44
124	29.100	26.09	0.10	25.25	220.55	2.23	10.30	0.00	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.43
125	29.000	26.07	0.10	25.26	220.63	2.23	10.29	0.00	10.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.41
126	28.900	26.06	0.10	25.28	220.70	2.24	10.28	0.00	10.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.39
127	28.800	26.04	0.10	25.29	220.78	2.24	10.27	0.00	10.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.38
128	28.700	26.03	0.10	25.30	220.86	2.25	10.26	0.00	10.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.36
129	28.600	26.01	0.10	25.31	220.93	2.25	10.25	0.00	10.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.35
130	28.500	26.00	0.10	25.33	221.01	2.26	10.24	0.00	10.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.33

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 5 Bayou Citamon REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO

********** 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
131	UPR RCH	2.35100	26.00	0.10	25.33	221.01	2.26	10.24	0.00	10.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.33
EACH	INCR	0.00800	0.00	0.00	28.90	243.00	2.91	11.74	0.00			0.00	0.00	0.00	0.00	0.00	4.07	
138	WSTLD	1.01000	25.64	0.11	29.10	230.60	3.00	9.36	0.00	9.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87
187	WSTLD	-1.04000	27.10	0.12	26.75	226.17	2.76	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.19

********** 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
131	28.50	28.40	2.35900	0.0	0.05941	0.02	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.059
132	28.40	28.30	2.36700	0.0	0.05961	0.02	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.060
133	28.30	28.20	2.37500	0.0	0.05981	0.02	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.060
134	28.20	28.10	2.38300	0.0	0.06002	0.02	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.060
135	28.10	28.00	2.39100	0.0	0.06022	0.02	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.060
136	28.00	27.90	2.39900	0.0	0.06042	0.02	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.060
137	27.90	27.80	2.40700	0.0	0.06062	0.02	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.061
138	27.80	27.70	3.42500	29.5	0.08626	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.086
139	27.70	27.60	3.43300	29.4	0.08646	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.086
140	27.60	27.50	3.44100	29.4	0.08666	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.087
141	27.50	27.40	3.44900	29.3	0.08686	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.087
142	27.40	27.30	3.45700	29.2	0.08706	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.087
143	27.30	27.20	3.46499	29.1	0.08727	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.087
144	27.20	27.10	3.47299	29.1	0.08747	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.087
145	27.10	27.00	3.48099	29.0	0.08767	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.088
146	27.00	26.90	3.48899	28.9	0.08787	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.088
147	26.90	26.80	3.49699	28.9	0.08807	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.088
148	26.80	26.70	3.50499	28.8	0.08827	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.088
149	26.70	26.60	3.51299	28.8	0.08847	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.088
150	26.60	26.50	3.52099	28.7	0.08868	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.089
151	26.50	26.40	3.52899	28.6	0.08888	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.089
152	26.40	26.30	3.53699	28.6	0.08908	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.089
153	26.30	26.20	3.54499	28.5	0.08928	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.089
154	26.20	26.10	3.55299	28.4	0.08948	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.089
155	26.10	26.00	3.56099	28.4	0.08968	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.090
156	26.00	25.90	3.56899	28.3	0.08989	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.090
157	25.90	25.80	3.57699	28.2	0.09009	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.090
158	25.80	25.70	3.58499	28.2	0.09029	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.090
159	25.70	25.60	3.59299	28.1	0.09049	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.090
160	25.60	25.50	3.60099	28.0	0.09069	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.091
161	25.50	25.40	3.60899	28.0	0.09089	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.091
162	25.40	25.30	3.61699	27.9	0.09109	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.091
163	25.30	25.20	3.62499	27.9	0.09130	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.091
164	25.20	25.10	3.63299	27.8	0.09150	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.091
165	25.10	25.00	3.64099	27.7	0.09170	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.092
166	25.00	24.90	3.64899	27.7	0.09190	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.092
167	24.90	24.80	3.65699	27.6	0.09210	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.092
168	24.80	24.70	3.66499	27.6	0.09230	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.092
169	24.70	24.60	3.67299	27.5	0.09250	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.093
170	24.60	24.50	3.68099	27.4	0.09271	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.093
171	24.50	24.40	3.68899	27.4	0.09291	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.093
172	24.40	24.30	3.69699	27.3	0.09311	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.093
173	24.30	24.20	3.70499	27.3	0.09331	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.093
174	24.20	24.10	3.71299	27.2	0.09351	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.094
175	24.10	24.00	3.72099	27.1	0.09371	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.094
176	24.00	23.90	3.72899	27.1	0.09391	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.094
177	23.90	23.80	3.73699	27.0	0.09412	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.094
178	23.80	23.70	3.74499	27.0	0.09432	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.094
179	23.70	23.60	3.75299	26.9	0.09452	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.095
180	23.60	23.50	3.76099	26.9	0.09472	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.095

181	23.50	23.40	3.76899	26.8	0.09492	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.095
182	23.40	23.30	3.77699	26.7	0.09512	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.095
183	23.30	23.20	3.78499	26.7	0.09532	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.095
184	23.20	23.10	3.79299	26.6	0.09553	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.096
185	23.10	23.00	3.80099	26.6	0.09573	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.096
186	23.00	22.90	3.80899	26.5	0.09593	0.01	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.096
187	22.90	22.80	2.77699	26.5	0.06994	0.02	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.070
TOT						0.77			226325.42	175446.00					
AVG					0.08515		1.29	30.78			39.71				
CUM						2.45									

********** 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
131	28.400	8.11	0.73	0.13	0.00	0.00	0.00	0.00	0.00	2.70	2.70	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
132	28.300	8.10	0.73	0.13	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
133	28.200	8.10	0.74	0.13	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
134	28.100	8.10	0.74	0.13	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.71	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
135	28.000	8.09	0.74	0.13	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.72	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
136	27.900	8.09	0.74	0.13	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.72	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
137	27.800	8.09	0.74	0.13	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.72	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
138	27.700	8.09	0.89	0.13	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
139	27.600	8.08	0.89	0.13	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
140	27.500	8.08	0.89	0.13	0.00	0.00	0.00	0.00	0.00	2.73	2.73	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
141	27.400	8.08	0.89	0.13	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
142	27.300	8.07	0.89	0.13	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
143	27.200	8.07	0.89	0.13	0.00	0.00	0.00	0.00	0.00	2.74	2.74	2.74	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
144	27.100	8.07	0.89	0.13	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
145	27.000	8.07	0.90	0.13	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
146	26.900	8.06	0.90	0.13	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
147	26.800	8.06	0.90	0.13	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
148	26.700	8.06	0.90	0.13	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
149	26.600	8.05	0.90	0.13	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
150	26.500	8.05	0.90	0.13	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
151	26.400	8.05	0.90	0.13	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
152	26.300	8.05	0.90	0.13	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
153	26.200	8.04	0.91	0.13	0.00	0.00	0.00	0.00	0.00	2.78	2.78	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
154	26.100	8.04	0.91	0.13	0.00	0.00	0.00	0.00	0.00	2.78	2.78	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
155	26.000	8.04	0.91	0.13	0.00	0.00	0.00	0.00	0.00	2.78	2.78	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
156	25.900	8.03	0.91	0.13	0.00	0.00	0.00	0.00	0.00	2.79	2.79	2.79	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
157	25.800	8.03	0.91	0.13	0.00	0.00	0.00	0.00	0.00	2.79	2.79	2.79	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
158	25.700	8.03	0.91	0.14	0.00	0.00	0.00	0.00	0.00	2.79	2.79	2.79	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
159	25.600	8.03	0.91	0.14	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
160	25.500	8.02	0.92	0.14	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
161	25.400	8.02	0.92	0.14	0.00	0.00	0.00	0.00	0.00	2.80	2.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
162	25.300	8.02	0.92	0.14	0.00	0.00	0.00	0.00	0.00	2.81	2.81	2.81	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
163	25.200	8.02	0.92	0.14	0.00	0.00	0.00	0.00	0.00	2.81	2.81	2.81	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
164	25.100	8.01	0.92	0.14	0.00	0.00	0.00	0.00	0.00	2.81	2.81	2.81	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
165	25.000	8.01	0.92	0.14	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
166	24.900	8.01	0.92	0.14	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
167	24.800	8.00	0.92	0.14	0.00	0.00	0.00	0.00	0.00	2.82	2.82	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00

168	24.700	8.00	0.93	0.14	0.00	0.00	0.00	0.00	0.00	2.83	2.83	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
169	24.600	8.00	0.93	0.14	0.00	0.00	0.00	0.00	0.00	2.83	2.83	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
170	24.500	8.00	0.93	0.14	0.00	0.00	0.00	0.00	0.00	2.83	2.83	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
171	24.400	7.99	0.93	0.14	0.00	0.00	0.00	0.00	0.00	2.84	2.84	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
172	24.300	7.99	0.93	0.14	0.00	0.00	0.00	0.00	0.00	2.84	2.84	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
173	24.200	7.99	0.93	0.14	0.00	0.00	0.00	0.00	0.00	2.84	2.84	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
174	24.100	7.98	0.93	0.14	0.00	0.00	0.00	0.00	0.00	2.85	2.85	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
175	24.000	7.98	0.94	0.14	0.00	0.00	0.00	0.00	0.00	2.85	2.85	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
176	23.900	7.98	0.94	0.14	0.00	0.00	0.00	0.00	0.00	2.85	2.85	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
177	23.800	7.98	0.94	0.14	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
178	23.700	7.97	0.94	0.14	0.00	0.00	0.00	0.00	0.00	2.86	2.86	2.86	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
179	23.600	7.97	0.94	0.14	0.00	0.00	0.00	0.00	0.00	2.87	2.87	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
180	23.500	7.97	0.94	0.14	0.00	0.00	0.00	0.00	0.00	2.87	2.87	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
181	23.400	7.97	0.94	0.14	0.00	0.00	0.00	0.00	0.00	2.87	2.87	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
182	23.300	7.96	0.94	0.14	0.00	0.00	0.00	0.00	0.00	2.88	2.88	2.88	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
183	23.200	7.96	0.95	0.14	0.00	0.00	0.00	0.00	0.00	2.88	2.88	2.88	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
184	23.100	7.96	0.95	0.14	0.00	0.00	0.00	0.00	0.00	2.88	2.88	2.88	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
185	23.000	7.95	0.95	0.14	0.00	0.00	0.00	0.00	0.00	2.89	2.89	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
186	22.900	7.95	0.95	0.14	0.00	0.00	0.00	0.00	0.00	2.89	2.89	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
187	22.800	7.95	0.81	0.14	0.00	0.00	0.00	0.00	0.00	2.89	2.89	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
AVG 20 DEG C RATE			0.79	0.10	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	0.19	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
131	28.400	26.02	0.10	25.34	221.09	2.25	10.22	0.00	10.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.31
132	28.300	26.04	0.10	25.35	221.16	2.25	10.20	0.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.28
133	28.200	26.06	0.10	25.36	221.24	2.24	10.18	0.00	10.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.26
134	28.100	26.08	0.10	25.38	221.31	2.24	10.16	0.00	10.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.23
135	28.000	26.10	0.10	25.39	221.39	2.23	10.14	0.00	10.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.21
136	27.900	26.12	0.10	25.43	221.52	2.24	10.11	0.00	10.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.18
137	27.800	26.14	0.10	25.58	221.94	2.26	10.06	0.00	10.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.11
138	27.700	26.15	0.10	26.51	224.25	2.46	9.87	0.00	9.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.77
139	27.600	26.17	0.10	26.51	224.29	2.47	9.85	0.00	9.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.75
140	27.500	26.19	0.10	26.52	224.34	2.48	9.84	0.00	9.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.74
141	27.400	26.21	0.10	26.52	224.38	2.49	9.83	0.00	9.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.73
142	27.300	26.23	0.10	26.53	224.42	2.49	9.82	0.00	9.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.71
143	27.200	26.25	0.10	26.53	224.46	2.50	9.80	0.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.70
144	27.100	26.27	0.10	26.54	224.51	2.51	9.79	0.00	9.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.69
145	27.000	26.29	0.11	26.54	224.55	2.51	9.78	0.00	9.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.67
146	26.900	26.31	0.11	26.55	224.59	2.52	9.77	0.00	9.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.66
147	26.800	26.33	0.11	26.56	224.63	2.53	9.75	0.00	9.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.65
148	26.700	26.35	0.11	26.56	224.68	2.54	9.74	0.00	9.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.63
149	26.600	26.37	0.11	26.57	224.72	2.54	9.73	0.00	9.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.62
150	26.500	26.39	0.11	26.57	224.76	2.55	9.72	0.00	9.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.61
151	26.400	26.41	0.11	26.58	224.80	2.56	9.71	0.00	9.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.60
152	26.300	26.42	0.11	26.58	224.84	2.56	9.69	0.00	9.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.58
153	26.200	26.44	0.11	26.59	224.88	2.57	9.68	0.00	9.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.57
154	26.100	26.46	0.11	26.59	224.92	2.58	9.67	0.00	9.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.56
155	26.000	26.48	0.11	26.60	224.96	2.58	9.66	0.00	9.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.55

156	25.900	26.50	0.11	26.60	225.00	2.59	9.65	0.00	9.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.53
157	25.800	26.52	0.11	26.61	225.04	2.60	9.63	0.00	9.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.52
158	25.700	26.54	0.11	26.61	225.08	2.60	9.62	0.00	9.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.51
159	25.600	26.56	0.11	26.62	225.12	2.61	9.61	0.00	9.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.50
160	25.500	26.58	0.11	26.62	225.16	2.61	9.60	0.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.49
161	25.400	26.60	0.11	26.63	225.20	2.62	9.59	0.00	9.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.47
162	25.300	26.62	0.11	26.63	225.24	2.63	9.58	0.00	9.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.46
163	25.200	26.64	0.11	26.64	225.28	2.63	9.57	0.00	9.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.45
164	25.100	26.66	0.11	26.64	225.32	2.64	9.55	0.00	9.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.44
165	25.000	26.68	0.11	26.65	225.36	2.65	9.54	0.00	9.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.43
166	24.900	26.69	0.11	26.65	225.40	2.65	9.53	0.00	9.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.42
167	24.800	26.71	0.11	26.66	225.44	2.66	9.52	0.00	9.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.41
168	24.700	26.73	0.11	26.66	225.48	2.66	9.51	0.00	9.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.39
169	24.600	26.75	0.11	26.67	225.51	2.67	9.50	0.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.38
170	24.500	26.77	0.11	26.67	225.55	2.68	9.49	0.00	9.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.37
171	24.400	26.79	0.11	26.68	225.59	2.68	9.48	0.00	9.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.36
172	24.300	26.81	0.11	26.68	225.63	2.69	9.47	0.00	9.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.35
173	24.200	26.83	0.12	26.69	225.66	2.69	9.45	0.00	9.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.34
174	24.100	26.85	0.12	26.69	225.70	2.70	9.44	0.00	9.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.33
175	24.000	26.87	0.12	26.70	225.74	2.71	9.43	0.00	9.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.32
176	23.900	26.89	0.12	26.70	225.78	2.71	9.42	0.00	9.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.31
177	23.800	26.91	0.12	26.71	225.81	2.72	9.41	0.00	9.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.30
178	23.700	26.93	0.12	26.71	225.85	2.72	9.40	0.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.28
179	23.600	26.95	0.12	26.72	225.89	2.73	9.39	0.00	9.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.27
180	23.500	26.96	0.12	26.72	225.92	2.73	9.38	0.00	9.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.26
181	23.400	26.98	0.12	26.72	225.96	2.74	9.37	0.00	9.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.25
182	23.300	27.00	0.12	26.73	225.99	2.74	9.36	0.00	9.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.24
183	23.200	27.02	0.12	26.73	226.03	2.75	9.35	0.00	9.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.23
184	23.100	27.04	0.12	26.74	226.07	2.75	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.22
185	23.000	27.06	0.12	26.74	226.10	2.76	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.21
186	22.900	27.08	0.12	26.75	226.14	2.76	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.20
187	22.800	27.10	0.12	26.75	226.17	2.76	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.19

********** 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
188	UPR RCH	2.77699	27.10	0.12	26.75	226.17	2.76	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.19
EACH	INCR	0.00800	0.00	0.00	28.90	243.00	2.91	11.74	0.00			0.00	0.00	0.00	0.00	0.00	4.07	

********** 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
188	22.80	22.70	2.78499	26.4	0.09298	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.093
189	22.70	22.60	2.79299	26.3	0.09325	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.093
190	22.60	22.50	2.80099	26.2	0.09352	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.094
191	22.50	22.40	2.80899	26.2	0.09378	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.094
192	22.40	22.30	2.81699	26.1	0.09405	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.094
193	22.30	22.20	2.82499	26.0	0.09432	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.094
194	22.20	22.10	2.83299	25.9	0.09458	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.095
195	22.10	22.00	2.84099	25.9	0.09485	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.095
196	22.00	21.90	2.84899	25.8	0.09512	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.095
197	21.90	21.80	2.85699	25.7	0.09539	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.095
198	21.80	21.70	2.86499	25.6	0.09565	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.096
199	21.70	21.60	2.87299	25.6	0.09592	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.096
200	21.60	21.50	2.88099	25.5	0.09619	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.096
201	21.50	21.40	2.88899	25.4	0.09645	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.096
202	21.40	21.30	2.89699	25.4	0.09672	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.097
203	21.30	21.20	2.90499	25.3	0.09699	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.097
204	21.20	21.10	2.91299	25.2	0.09726	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.097
205	21.10	21.00	2.92099	25.2	0.09752	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.098
206	21.00	20.90	2.92899	25.1	0.09779	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.098
207	20.90	20.80	2.93699	25.0	0.09806	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.098
208	20.80	20.70	2.94499	25.0	0.09832	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.098
209	20.70	20.60	2.95299	24.9	0.09859	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.099
210	20.60	20.50	2.96099	24.8	0.09886	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.099
211	20.50	20.40	2.96899	24.7	0.09912	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.099
212	20.40	20.30	2.97699	24.7	0.09939	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.099
213	20.30	20.20	2.98499	24.6	0.09966	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.100
214	20.20	20.10	2.99299	24.6	0.09993	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.100
215	20.10	20.00	3.00099	24.5	0.10019	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.100
216	20.00	19.90	3.00899	24.4	0.10046	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.100
217	19.90	19.80	3.01699	24.4	0.10073	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.101
218	19.80	19.70	3.02499	24.3	0.10099	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.101
219	19.70	19.60	3.03299	24.2	0.10126	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.101
220	19.60	19.50	3.04099	24.2	0.10153	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.102
221	19.50	19.40	3.04899	24.1	0.10180	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.102
222	19.40	19.30	3.05699	24.0	0.10206	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.102
223	19.30	19.20	3.06499	24.0	0.10233	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.102
224	19.20	19.10	3.07299	23.9	0.10260	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.103

225	19.10	19.00	3.08099	23.8	0.10286	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.103
226	19.00	18.90	3.08899	23.8	0.10313	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.103
227	18.90	18.80	3.09699	23.7	0.10340	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.103
228	18.80	18.70	3.10499	23.7	0.10367	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.104
229	18.70	18.60	3.11299	23.6	0.10393	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.104
230	18.60	18.50	3.12099	23.5	0.10420	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.104
231	18.50	18.40	3.12899	23.5	0.10447	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.104
232	18.40	18.30	3.13699	23.4	0.10473	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.105
233	18.30	18.20	3.14499	23.4	0.10500	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.105
234	18.20	18.10	3.15299	23.3	0.10527	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.105
235	18.10	18.00	3.16099	23.2	0.10554	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.106
236	18.00	17.90	3.16899	23.2	0.10580	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.106
237	17.90	17.80	3.17699	23.1	0.10607	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.106
238	17.80	17.70	3.18499	23.1	0.10634	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.106
239	17.70	17.60	3.19299	23.0	0.10660	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.107
240	17.60	17.50	3.20098	23.0	0.10687	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.107
241	17.50	17.40	3.20898	22.9	0.10714	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.107
242	17.40	17.30	3.21698	22.8	0.10740	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.107
243	17.30	17.20	3.22498	22.8	0.10767	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.108
244	17.20	17.10	3.23298	22.7	0.10794	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.108
245	17.10	17.00	3.24098	22.7	0.10821	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.108
246	17.00	16.90	3.24898	22.6	0.10847	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.108
247	16.90	16.80	3.25698	22.6	0.10874	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.109
248	16.80	16.70	3.26498	22.5	0.10901	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.109
249	16.70	16.60	3.27298	22.5	0.10927	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.109
250	16.60	16.50	3.28098	22.4	0.10954	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.110
251	16.50	16.40	3.28898	22.3	0.10981	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.110
252	16.40	16.30	3.29698	22.3	0.11008	0.01	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.110
TOT						0.74			194688.12	166400.00					
AVG					0.10128		1.17	25.60			29.95				
CUM						3.19									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
188	22.700	7.95	1.08	0.14	0.00	0.00	0.00	0.00	0.00	3.91	3.91	3.91	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
189	22.600	7.95	1.08	0.14	0.00	0.00	0.00	0.00	0.00	3.90	3.90	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
190	22.500	7.95	1.09	0.14	0.00	0.00	0.00	0.00	0.00	3.90	3.90	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
191	22.400	7.95	1.09	0.14	0.00	0.00	0.00	0.00	0.00	3.90	3.90	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
192	22.300	7.96	1.09	0.14	0.00	0.00	0.00	0.00	0.00	3.90	3.90	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
193	22.200	7.96	1.09	0.14	0.00	0.00	0.00	0.00	0.00	3.90	3.90	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
194	22.100	7.96	1.09	0.14	0.00	0.00	0.00	0.00	0.00	3.89	3.89	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
195	22.000	7.96	1.09	0.14	0.00	0.00	0.00	0.00	0.00	3.89	3.89	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
196	21.900	7.96	1.09	0.14	0.00	0.00	0.00	0.00	0.00	3.89	3.89	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
197	21.800	7.96	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.89	3.89	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
198	21.700	7.96	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00
199	21.600	7.96	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
200	21.500	7.97	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
201	21.400	7.97	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
202	21.300	7.97	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
203	21.200	7.97	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00

204	21.100	7.97	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
205	21.000	7.97	1.11	0.14	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
206	20.900	7.97	1.11	0.14	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
207	20.800	7.97	1.11	0.14	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
208	20.700	7.98	1.11	0.14	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
209	20.600	7.98	1.11	0.14	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
210	20.500	7.98	1.11	0.14	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
211	20.400	7.98	1.11	0.14	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
212	20.300	7.98	1.12	0.14	0.00	0.00	0.00	0.00	0.00	3.85	3.85	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
213	20.200	7.98	1.12	0.14	0.00	0.00	0.00	0.00	0.00	3.85	3.85	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
214	20.100	7.98	1.12	0.14	0.00	0.00	0.00	0.00	0.00	3.85	3.85	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
215	20.000	7.99	1.12	0.14	0.00	0.00	0.00	0.00	0.00	3.85	3.85	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
216	19.900	7.99	1.12	0.14	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	0.16	0.00	0.00	0.30	0.00
217	19.800	7.99	1.12	0.14	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	0.16	0.00	0.00	0.30	0.00
218	19.700	7.99	1.12	0.14	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	0.16	0.00	0.00	0.30	0.00
219	19.600	7.99	1.12	0.14	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	0.16	0.00	0.00	0.30	0.00
220	19.500	7.99	1.13	0.14	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	0.16	0.00	0.00	0.30	0.00
221	19.400	7.99	1.13	0.14	0.00	0.00	0.00	0.00	0.00	3.83	3.83	3.83	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
222	19.300	7.99	1.13	0.14	0.00	0.00	0.00	0.00	0.00	3.83	3.83	3.83	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
223	19.200	8.00	1.13	0.14	0.00	0.00	0.00	0.00	0.00	3.83	3.83	3.83	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
224	19.100	8.00	1.13	0.14	0.00	0.00	0.00	0.00	0.00	3.83	3.83	3.83	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
225	19.000	8.00	1.13	0.14	0.00	0.00	0.00	0.00	0.00	3.82	3.82	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
226	18.900	8.00	1.13	0.14	0.00	0.00	0.00	0.00	0.00	3.82	3.82	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
227	18.800	8.00	1.13	0.14	0.00	0.00	0.00	0.00	0.00	3.82	3.82	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
228	18.700	8.00	1.14	0.14	0.00	0.00	0.00	0.00	0.00	3.82	3.82	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
229	18.600	8.00	1.14	0.14	0.00	0.00	0.00	0.00	0.00	3.82	3.82	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
230	18.500	8.01	1.14	0.14	0.00	0.00	0.00	0.00	0.00	3.81	3.81	3.81	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
231	18.400	8.01	1.14	0.14	0.00	0.00	0.00	0.00	0.00	3.81	3.81	3.81	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
232	18.300	8.01	1.14	0.14	0.00	0.00	0.00	0.00	0.00	3.81	3.81	3.81	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
233	18.200	8.01	1.14	0.14	0.00	0.00	0.00	0.00	0.00	3.81	3.81	3.81	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
234	18.100	8.01	1.14	0.14	0.00	0.00	0.00	0.00	0.00	3.80	3.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
235	18.000	8.01	1.14	0.14	0.00	0.00	0.00	0.00	0.00	3.80	3.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
236	17.900	8.01	1.15	0.14	0.00	0.00	0.00	0.00	0.00	3.80	3.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
237	17.800	8.01	1.15	0.14	0.00	0.00	0.00	0.00	0.00	3.80	3.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
238	17.700	8.02	1.15	0.14	0.00	0.00	0.00	0.00	0.00	3.80	3.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
239	17.600	8.02	1.15	0.14	0.00	0.00	0.00	0.00	0.00	3.79	3.79	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
240	17.500	8.02	1.15	0.14	0.00	0.00	0.00	0.00	0.00	3.79	3.79	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
241	17.400	8.02	1.15	0.14	0.00	0.00	0.00	0.00	0.00	3.79	3.79	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
242	17.300	8.02	1.15	0.14	0.00	0.00	0.00	0.00	0.00	3.79	3.79	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
243	17.200	8.02	1.15	0.14	0.00	0.00	0.00	0.00	0.00	3.78	3.78	3.78	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
244	17.100	8.02	1.16	0.14	0.00	0.00	0.00	0.00	0.00	3.78	3.78	3.78	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
245	17.000	8.03	1.16	0.14	0.00	0.00	0.00	0.00	0.00	3.78	3.78	3.78	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
246	16.900	8.03	1.16	0.14	0.00	0.00	0.00	0.00	0.00	3.78	3.78	3.78	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
247	16.800	8.03	1.16	0.14	0.00	0.00	0.00	0.00	0.00	3.78	3.78	3.78	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
248	16.700	8.03	1.16	0.14	0.00	0.00	0.00	0.00	0.00	3.77	3.77	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
249	16.600	8.03	1.16	0.13	0.00	0.00	0.00	0.00	0.00	3.77	3.77	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
250	16.500	8.03	1.16	0.13	0.00	0.00	0.00	0.00	0.00	3.77	3.77	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
251	16.400	8.03	1.16	0.13	0.00	0.00	0.00	0.00	0.00	3.77	3.77	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.30	0.00
252	16.300	8.03	1.17	0.13	0.00	0.00	0.00	0.00	0.00	3.76	3.76	3.76	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.29	0.00
AVG 20 DEG C RATE			0.99	0.10	0.00	0.00	0.00	0.00	0.00	2.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.19	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
188	22.700	27.09	0.12	26.76	226.22	2.76	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.18
189	22.600	27.08	0.12	26.76	226.27	2.76	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.17
190	22.500	27.07	0.12	26.77	226.32	2.76	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.16
191	22.400	27.06	0.12	26.78	226.37	2.76	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.15
192	22.300	27.05	0.12	26.78	226.41	2.77	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.15
193	22.200	27.04	0.12	26.79	226.46	2.77	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.14
194	22.100	27.04	0.12	26.79	226.51	2.77	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.13
195	22.000	27.03	0.12	26.80	226.55	2.77	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.12
196	21.900	27.02	0.12	26.81	226.60	2.77	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.11
197	21.800	27.01	0.12	26.81	226.65	2.77	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.10
198	21.700	27.00	0.12	26.82	226.69	2.78	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.09
199	21.600	26.99	0.12	26.82	226.74	2.78	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.08
200	21.500	26.98	0.12	26.83	226.78	2.78	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.08
201	21.400	26.97	0.12	26.84	226.83	2.78	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.07
202	21.300	26.96	0.12	26.84	226.87	2.79	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.06
203	21.200	26.95	0.12	26.85	226.92	2.79	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.05
204	21.100	26.94	0.12	26.85	226.96	2.79	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.04
205	21.000	26.93	0.12	26.86	227.00	2.79	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.03
206	20.900	26.92	0.12	26.86	227.05	2.80	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.03
207	20.800	26.92	0.12	26.87	227.09	2.80	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.02
208	20.700	26.91	0.12	26.87	227.13	2.80	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.01
209	20.600	26.90	0.12	26.88	227.18	2.81	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.00
210	20.500	26.89	0.12	26.89	227.22	2.81	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.99
211	20.400	26.88	0.12	26.89	227.26	2.81	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.99
212	20.300	26.87	0.12	26.90	227.30	2.82	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.98
213	20.200	26.86	0.12	26.90	227.35	2.82	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.97
214	20.100	26.85	0.12	26.91	227.39	2.83	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.96
215	20.000	26.84	0.12	26.91	227.43	2.83	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.96
216	19.900	26.83	0.12	26.92	227.47	2.83	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.95
217	19.800	26.82	0.12	26.92	227.51	2.84	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.94
218	19.700	26.81	0.12	26.93	227.55	2.84	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.94
219	19.600	26.80	0.12	26.93	227.59	2.85	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.93
220	19.500	26.80	0.12	26.94	227.63	2.85	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.92
221	19.400	26.79	0.12	26.94	227.67	2.85	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.91
222	19.300	26.78	0.12	26.95	227.71	2.86	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.91
223	19.200	26.77	0.12	26.95	227.75	2.86	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.90
224	19.100	26.76	0.12	26.96	227.79	2.87	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.89
225	19.000	26.75	0.12	26.96	227.83	2.87	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.89
226	18.900	26.74	0.12	26.97	227.87	2.88	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.88
227	18.800	26.73	0.12	26.97	227.91	2.88	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
228	18.700	26.72	0.12	26.98	227.95	2.89	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
229	18.600	26.71	0.12	26.98	227.99	2.89	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
230	18.500	26.70	0.12	26.99	228.03	2.90	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
231	18.400	26.69	0.12	26.99	228.07	2.90	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
232	18.300	26.68	0.12	27.00	228.10	2.91	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
233	18.200	26.68	0.12	27.00	228.14	2.91	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
234	18.100	26.67	0.12	27.01	228.18	2.92	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.83
235	18.000	26.66	0.12	27.01	228.22	2.92	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.82
236	17.900	26.65	0.12	27.02	228.25	2.93	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.82
237	17.800	26.64	0.12	27.02	228.29	2.93	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.81
238	17.700	26.63	0.12	27.03	228.33	2.94	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.81
239	17.600	26.62	0.12	27.03	228.37	2.94	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.80

240	17.500	26.61	0.12	27.04	228.40	2.95	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.79
241	17.400	26.60	0.12	27.04	228.44	2.95	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.79
242	17.300	26.59	0.12	27.05	228.47	2.96	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.78
243	17.200	26.58	0.12	27.05	228.51	2.96	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.78
244	17.100	26.57	0.12	27.05	228.55	2.97	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.77
245	17.000	26.56	0.12	27.06	228.58	2.97	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.77
246	16.900	26.56	0.12	27.06	228.62	2.98	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.76
247	16.800	26.55	0.12	27.07	228.65	2.99	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.75
248	16.700	26.54	0.12	27.07	228.69	2.99	9.35	0.00	9.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.75
249	16.600	26.53	0.12	27.08	228.72	3.00	9.35	0.00	9.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.74
250	16.500	26.52	0.12	27.08	228.76	3.00	9.35	0.00	9.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.74
251	16.400	26.51	0.12	27.09	228.82	3.01	9.35	0.00	9.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.73
252	16.300	26.50	0.12	27.12	229.07	3.00	9.37	0.00	9.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.74

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 7 Bayou Chevreuil REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO

********** 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
253	UPR RCH	3.29698	26.50	0.12	27.12	229.07	3.00	9.37	0.00	9.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.74
EACH	INCR	0.00800	0.00	0.00	28.90	243.00	2.91	11.74	0.00			0.00	0.00	0.00	0.00	0.00	4.07	
255	WSTLD	2.55000	26.07	0.13	31.70	272.60	1.30	11.96	0.00	11.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.63
268	WSTLD	0.38000	26.25	0.11	27.00	230.90	2.00	10.13	0.00	10.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.22

********** 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
253	16.30	16.20	3.30498	22.2	0.04731	0.02	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.047
254	16.20	16.10	3.31298	22.2	0.04742	0.02	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.047
255	16.10	16.00	5.87098	55.9	0.08403	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.084
256	16.00	15.90	5.87898	55.9	0.08415	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.084
257	15.90	15.80	5.88698	55.8	0.08426	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.084
258	15.80	15.70	5.89498	55.7	0.08438	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.084
259	15.70	15.60	5.90298	55.6	0.08449	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.084
260	15.60	15.50	5.91098	55.6	0.08461	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.085
261	15.50	15.40	5.91898	55.5	0.08472	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.085
262	15.40	15.30	5.92698	55.4	0.08483	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.085
263	15.30	15.20	5.93498	55.3	0.08495	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.085
264	15.20	15.10	5.94298	55.3	0.08506	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.085
265	15.10	15.00	5.95098	55.2	0.08518	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.085
266	15.00	14.90	5.95898	55.1	0.08529	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.085
267	14.90	14.80	5.96698	55.0	0.08541	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.085
268	14.80	14.70	6.35498	57.7	0.09096	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.091
269	14.70	14.60	6.36298	57.6	0.09108	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.091
270	14.60	14.50	6.37098	57.5	0.09119	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.091
271	14.50	14.40	6.37898	57.5	0.09130	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.091
272	14.40	14.30	6.38698	57.4	0.09142	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.091

273	14.30	14.20	6.39498	57.3	0.09153	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.092
274	14.20	14.10	6.40298	57.2	0.09165	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.092
275	14.10	14.00	6.41098	57.2	0.09176	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.092
276	14.00	13.90	6.41898	57.1	0.09188	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.092
277	13.90	13.80	6.42698	57.0	0.09199	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.092
278	13.80	13.70	6.43498	57.0	0.09211	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.092
279	13.70	13.60	6.44298	56.9	0.09222	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.092
280	13.60	13.50	6.45098	56.8	0.09233	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.092
281	13.50	13.40	6.45898	56.7	0.09245	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.092
282	13.40	13.30	6.46698	56.7	0.09256	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.093
283	13.30	13.20	6.47498	56.6	0.09268	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.093
284	13.20	13.10	6.48298	56.5	0.09279	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.093
285	13.10	13.00	6.49098	56.5	0.09291	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.093
286	13.00	12.90	6.49898	56.4	0.09302	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.093
287	12.90	12.80	6.50698	56.3	0.09314	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.093
288	12.80	12.70	6.51498	56.3	0.09325	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.093
289	12.70	12.60	6.52298	56.2	0.09337	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.093
290	12.60	12.50	6.53098	56.1	0.09348	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.093
291	12.50	12.40	6.53898	56.0	0.09359	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.094
292	12.40	12.30	6.54698	56.0	0.09371	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.094
293	12.30	12.20	6.55498	55.9	0.09382	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.094
294	12.20	12.10	6.56298	55.8	0.09394	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.094
295	12.10	12.00	6.57098	55.8	0.09405	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.094
296	12.00	11.90	6.57898	55.7	0.09417	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.094
297	11.90	11.80	6.58698	55.6	0.09428	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.094
298	11.80	11.70	6.59498	55.6	0.09440	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.094
299	11.70	11.60	6.60298	55.5	0.09451	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.095
300	11.60	11.50	6.61098	55.4	0.09463	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.095
301	11.50	11.40	6.61898	55.4	0.09474	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.095
302	11.40	11.30	6.62698	55.3	0.09485	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.095
303	11.30	11.20	6.63498	55.2	0.09497	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.095
304	11.20	11.10	6.64298	55.2	0.09508	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.095
305	11.10	11.00	6.65098	55.1	0.09520	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.095
306	11.00	10.90	6.65898	55.0	0.09531	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.095
307	10.90	10.80	6.66698	55.0	0.09543	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.095
308	10.80	10.70	6.67498	54.9	0.09554	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.096
309	10.70	10.60	6.68298	54.8	0.09566	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.096
310	10.60	10.50	6.69098	54.8	0.09577	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.096
311	10.50	10.40	6.69898	54.7	0.09588	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.096
312	10.40	10.30	6.70698	54.6	0.09600	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.096
313	10.30	10.20	6.71498	54.6	0.09611	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.096
314	10.20	10.10	6.72298	54.5	0.09623	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.096
315	10.10	10.00	6.73098	54.4	0.09634	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.096
316	10.00	9.90	6.73898	54.4	0.09646	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.096
317	9.90	9.80	6.74698	54.3	0.09657	0.01	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.097
TOT						0.84			454122.53	289250.00					
AVG					0.08915		1.57	44.50			69.87				
CUM						4.04									

********** 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	NCM SETT 1/da

253	16.200	8.03	0.49	0.09	0.00	0.00	0.00	0.00	0.00	2.56	2.56	2.56	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.43	0.00
254	16.100	8.03	0.49	0.09	0.00	0.00	0.00	0.00	0.00	2.56	2.56	2.56	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.44	0.00
255	16.000	8.03	0.66	0.09	0.00	0.00	0.00	0.00	0.00	2.56	2.56	2.56	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.44	0.00
256	15.900	8.03	0.66	0.09	0.00	0.00	0.00	0.00	0.00	2.57	2.57	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.44	0.00
257	15.800	8.03	0.66	0.09	0.00	0.00	0.00	0.00	0.00	2.57	2.57	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.44	0.00
258	15.700	8.03	0.66	0.09	0.00	0.00	0.00	0.00	0.00	2.57	2.57	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.44	0.00
259	15.600	8.03	0.66	0.09	0.00	0.00	0.00	0.00	0.00	2.57	2.57	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.44	0.00
260	15.500	8.02	0.66	0.09	0.00	0.00	0.00	0.00	0.00	2.57	2.57	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.44	0.00
261	15.400	8.02	0.66	0.09	0.00	0.00	0.00	0.00	0.00	2.57	2.57	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.44	0.00
262	15.300	8.02	0.66	0.09	0.00	0.00	0.00	0.00	0.00	2.57	2.57	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.44	0.00
263	15.200	8.02	0.66	0.09	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	0.16	0.00	0.00	0.44	0.00
264	15.100	8.02	0.66	0.09	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	0.16	0.00	0.00	0.44	0.00
265	15.000	8.02	0.66	0.09	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	0.16	0.00	0.00	0.44	0.00
266	14.900	8.02	0.66	0.09	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	0.16	0.00	0.00	0.44	0.00
267	14.800	8.01	0.66	0.09	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	0.16	0.00	0.00	0.44	0.00
268	14.700	8.01	0.68	0.09	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	0.16	0.00	0.00	0.44	0.00
269	14.600	8.01	0.68	0.10	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	0.16	0.00	0.00	0.44	0.00
270	14.500	8.01	0.68	0.10	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	0.16	0.00	0.00	0.44	0.00
271	14.400	8.01	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
272	14.300	8.01	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
273	14.200	8.01	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
274	14.100	8.01	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
275	14.000	8.00	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
276	13.900	8.00	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
277	13.800	8.00	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
278	13.700	8.00	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
279	13.600	8.00	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
280	13.500	8.00	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
281	13.400	8.00	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
282	13.300	7.99	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
283	13.200	7.99	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
284	13.100	7.99	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
285	13.000	7.99	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
286	12.900	7.99	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
287	12.800	7.99	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
288	12.700	7.99	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
289	12.600	7.99	0.69	0.10	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	0.16	0.00	0.00	0.44	0.00
290	12.500	7.98	0.70	0.10	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	0.16	0.00	0.00	0.45	0.00
291	12.400	7.98	0.70	0.10	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	0.16	0.00	0.00	0.45	0.00
292	12.300	7.98	0.70	0.10	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	0.16	0.00	0.00	0.45	0.00
293	12.200	7.98	0.70	0.10	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	0.16	0.00	0.00	0.45	0.00
294	12.100	7.98	0.70	0.10	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	0.16	0.00	0.00	0.45	0.00
295	12.000	7.98	0.70	0.10	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	0.16	0.00	0.00	0.45	0.00
296	11.900	7.98	0.70	0.10	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
297	11.800	7.97	0.70	0.10	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
298	11.700	7.97	0.70	0.10	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
299	11.600	7.97	0.70	0.10	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
300	11.500	7.97	0.70	0.10	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
301	11.400	7.97	0.70	0.10	0.00	0.00	0.00	0.00	0.00	2.63	2.63	2.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
302	11.300	7.97	0.70	0.10	0.00	0.00	0.00	0.00	0.00	2.64	2.64	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
303	11.200	7.97	0.70	0.10	0.00	0.00	0.00	0.00	0.00	2.64	2.64	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
304	11.100	7.97	0.70	0.10	0.00	0.00	0.00	0.00	0.00	2.64	2.64	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
305	11.000	7.96	0.70	0.10	0.00	0.00	0.00	0.00	0.00	2.64	2.64	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
306	10.900	7.96	0.70	0.10	0.00	0.00	0.00	0.00	0.00	2.64	2.64	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
307	10.800	7.96	0.70	0.10	0.00	0.00	0.00	0.00	0.00	2.64	2.64	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00

308	10.700	7.96	0.71	0.10	0.00	0.00	0.00	0.00	0.00	2.64	2.64	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
309	10.600	7.96	0.71	0.10	0.00	0.00	0.00	0.00	0.00	2.65	2.65	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
310	10.500	7.96	0.71	0.10	0.00	0.00	0.00	0.00	0.00	2.65	2.65	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
311	10.400	7.96	0.71	0.10	0.00	0.00	0.00	0.00	0.00	2.65	2.65	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
312	10.300	7.95	0.71	0.10	0.00	0.00	0.00	0.00	0.00	2.65	2.65	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
313	10.200	7.95	0.71	0.10	0.00	0.00	0.00	0.00	0.00	2.65	2.65	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
314	10.100	7.95	0.71	0.10	0.00	0.00	0.00	0.00	0.00	2.65	2.65	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
315	10.000	7.95	0.71	0.10	0.00	0.00	0.00	0.00	0.00	2.66	2.66	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
316	9.900	7.95	0.71	0.10	0.00	0.00	0.00	0.00	0.00	2.66	2.66	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
317	9.800	7.95	0.71	0.10	0.00	0.00	0.00	0.00	0.00	2.66	2.66	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
AVG 20 DEG C RATE			0.60	0.07	0.00	0.00	0.00	0.00	0.00	1.70			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.28	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
253	16.200	26.51	0.12	27.23	230.11	2.93	9.45	0.00	9.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.78
254	16.100	26.52	0.12	27.61	233.75	2.77	9.68	0.00	9.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.00
255	16.000	26.53	0.12	29.10	247.89	2.23	10.52	0.00	10.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.93
256	15.900	26.54	0.12	29.10	247.89	2.22	10.53	0.00	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.91
257	15.800	26.55	0.12	29.10	247.88	2.21	10.55	0.00	10.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.89
258	15.700	26.56	0.12	29.10	247.87	2.21	10.56	0.00	10.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.86
259	15.600	26.56	0.12	29.10	247.87	2.20	10.57	0.00	10.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.84
260	15.500	26.57	0.12	29.10	247.86	2.20	10.58	0.00	10.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.82
261	15.400	26.58	0.12	29.10	247.85	2.19	10.59	0.00	10.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.80
262	15.300	26.59	0.12	29.10	247.85	2.19	10.60	0.00	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.77
263	15.200	26.60	0.12	29.10	247.84	2.18	10.61	0.00	10.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.75
264	15.100	26.61	0.12	29.10	247.83	2.18	10.62	0.00	10.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.73
265	15.000	26.62	0.12	29.10	247.82	2.17	10.63	0.00	10.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.71
266	14.900	26.63	0.12	29.09	247.80	2.17	10.64	0.00	10.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.69
267	14.800	26.64	0.12	29.08	247.65	2.16	10.64	0.00	10.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.67
268	14.700	26.65	0.12	28.97	246.80	2.15	10.63	0.00	10.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.68
269	14.600	26.66	0.12	28.97	246.79	2.15	10.64	0.00	10.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.66
270	14.500	26.67	0.12	28.97	246.79	2.15	10.65	0.00	10.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
271	14.400	26.68	0.12	28.97	246.78	2.15	10.66	0.00	10.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.62
272	14.300	26.68	0.12	28.97	246.78	2.14	10.67	0.00	10.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.60
273	14.200	26.69	0.12	28.97	246.77	2.14	10.67	0.00	10.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.58
274	14.100	26.70	0.12	28.97	246.77	2.14	10.68	0.00	10.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.56
275	14.000	26.71	0.12	28.97	246.76	2.14	10.69	0.00	10.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.54
276	13.900	26.72	0.12	28.97	246.76	2.14	10.70	0.00	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.52
277	13.800	26.73	0.12	28.97	246.76	2.14	10.71	0.00	10.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.50
278	13.700	26.74	0.12	28.97	246.75	2.13	10.72	0.00	10.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.49
279	13.600	26.75	0.12	28.97	246.75	2.13	10.73	0.00	10.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.47
280	13.500	26.76	0.12	28.97	246.74	2.13	10.74	0.00	10.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.45
281	13.400	26.77	0.12	28.97	246.74	2.13	10.75	0.00	10.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.43
282	13.300	26.78	0.12	28.97	246.73	2.13	10.76	0.00	10.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.41
283	13.200	26.79	0.12	28.97	246.73	2.13	10.77	0.00	10.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.39
284	13.100	26.80	0.12	28.97	246.72	2.13	10.77	0.00	10.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.38
285	13.000	26.80	0.12	28.97	246.72	2.13	10.78	0.00	10.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.36
286	12.900	26.81	0.12	28.97	246.71	2.13	10.79	0.00	10.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.34
287	12.800	26.82	0.12	28.97	246.71	2.13	10.80	0.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.32

288	12.700	26.83	0.12	28.97	246.71	2.13	10.81	0.00	10.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.31
289	12.600	26.84	0.12	28.97	246.70	2.13	10.82	0.00	10.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.29
290	12.500	26.85	0.12	28.97	246.70	2.13	10.83	0.00	10.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.27
291	12.400	26.86	0.12	28.97	246.69	2.13	10.84	0.00	10.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.26
292	12.300	26.87	0.12	28.97	246.69	2.13	10.85	0.00	10.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.24
293	12.200	26.88	0.12	28.97	246.68	2.13	10.85	0.00	10.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.22
294	12.100	26.89	0.12	28.97	246.68	2.13	10.86	0.00	10.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.21
295	12.000	26.90	0.12	28.97	246.67	2.13	10.87	0.00	10.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.19
296	11.900	26.91	0.12	28.97	246.67	2.13	10.88	0.00	10.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.17
297	11.800	26.92	0.12	28.97	246.66	2.13	10.89	0.00	10.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.16
298	11.700	26.92	0.12	28.97	246.66	2.13	10.90	0.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.14
299	11.600	26.93	0.12	28.97	246.66	2.13	10.90	0.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.12
300	11.500	26.94	0.12	28.97	246.65	2.13	10.91	0.00	10.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.11
301	11.400	26.95	0.12	28.97	246.65	2.13	10.92	0.00	10.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.09
302	11.300	26.96	0.12	28.97	246.64	2.13	10.93	0.00	10.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.08
303	11.200	26.97	0.12	28.97	246.64	2.13	10.94	0.00	10.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.06
304	11.100	26.98	0.12	28.97	246.63	2.13	10.95	0.00	10.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.05
305	11.000	26.99	0.12	28.97	246.63	2.13	10.95	0.00	10.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.03
306	10.900	27.00	0.12	28.97	246.63	2.14	10.96	0.00	10.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.02
307	10.800	27.01	0.12	28.97	246.62	2.14	10.97	0.00	10.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.00
308	10.700	27.02	0.12	28.97	246.62	2.14	10.98	0.00	10.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.99
309	10.600	27.03	0.12	28.97	246.61	2.14	10.99	0.00	10.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.97
310	10.500	27.04	0.12	28.97	246.61	2.14	10.99	0.00	10.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.96
311	10.400	27.04	0.12	28.97	246.60	2.14	11.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.94
312	10.300	27.05	0.12	28.97	246.60	2.14	11.01	0.00	11.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.93
313	10.200	27.06	0.12	28.97	246.60	2.14	11.02	0.00	11.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.91
314	10.100	27.07	0.12	28.97	246.59	2.15	11.03	0.00	11.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.90
315	10.000	27.08	0.12	28.97	246.59	2.15	11.03	0.00	11.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.88
316	9.900	27.09	0.12	28.97	246.58	2.15	11.04	0.00	11.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
317	9.800	27.10	0.12	28.97	246.58	2.15	11.05	0.00	11.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 8 Bayou Chevreuil REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO

********** 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
318	UPR RCH	6.74698	27.10	0.12	28.97	246.58	2.15	11.05	0.00	11.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.85
EACH	INCR	0.01820	0.00	0.00	28.90	243.00	2.91	11.74	0.00			0.00	0.00	0.00	0.00	0.00	4.07	

********** 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
318	9.80	9.70	6.76518	54.2	0.08062	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.081
319	9.70	9.60	6.78339	54.0	0.08084	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.081
320	9.60	9.50	6.80159	53.9	0.08106	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.081
321	9.50	9.40	6.81979	53.7	0.08128	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.081
322	9.40	9.30	6.83800	53.6	0.08149	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.081

323	9.30	9.20	6.85620	53.5	0.08171	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.082
324	9.20	9.10	6.87441	53.3	0.08193	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.082
325	9.10	9.00	6.89261	53.2	0.08214	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.082
326	9.00	8.90	6.91081	53.0	0.08236	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.082
327	8.90	8.80	6.92902	52.9	0.08258	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.083
328	8.80	8.70	6.94722	52.8	0.08279	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.083
329	8.70	8.60	6.96543	52.6	0.08301	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.083
330	8.60	8.50	6.98363	52.5	0.08323	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.083
331	8.50	8.40	7.00184	52.3	0.08344	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.083
332	8.40	8.30	7.02004	52.2	0.08366	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.084
333	8.30	8.20	7.03824	52.1	0.08388	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.084
334	8.20	8.10	7.05645	51.9	0.08410	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.084
335	8.10	8.00	7.07465	51.8	0.08431	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.084
336	8.00	7.90	7.09286	51.7	0.08453	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.085
337	7.90	7.80	7.11106	51.5	0.08475	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.085
338	7.80	7.70	7.12927	51.4	0.08496	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.085
339	7.70	7.60	7.14747	51.3	0.08518	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.085
340	7.60	7.50	7.16567	51.1	0.08540	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.085
341	7.50	7.40	7.18388	51.0	0.08561	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.086
342	7.40	7.30	7.20208	50.9	0.08583	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.086
343	7.30	7.20	7.22029	50.8	0.08605	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.086
344	7.20	7.10	7.23849	50.6	0.08627	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.086
345	7.10	7.00	7.25669	50.5	0.08648	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.086
346	7.00	6.90	7.27490	50.4	0.08670	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.087
347	6.90	6.80	7.29310	50.3	0.08692	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.087
348	6.80	6.70	7.31131	50.1	0.08713	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.087
349	6.70	6.60	7.32951	50.0	0.08735	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.087
350	6.60	6.50	7.34772	49.9	0.08757	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.088
351	6.50	6.40	7.36592	49.8	0.08778	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.088
352	6.40	6.30	7.38412	49.6	0.08800	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.088
353	6.30	6.20	7.40233	49.5	0.08822	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.088
354	6.20	6.10	7.42053	49.4	0.08843	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.088
355	6.10	6.00	7.43874	49.3	0.08865	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.089
356	6.00	5.90	7.45694	49.1	0.08887	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.089
357	5.90	5.80	7.47515	49.0	0.08909	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.089
358	5.80	5.70	7.49335	48.9	0.08930	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.089
359	5.70	5.60	7.51155	48.8	0.08952	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.090
360	5.60	5.50	7.52976	48.7	0.08974	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.090
361	5.50	5.40	7.54796	48.6	0.08995	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.090
362	5.40	5.30	7.56617	48.4	0.09017	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.090
363	5.30	5.20	7.58437	48.3	0.09039	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.090
364	5.20	5.10	7.60257	48.2	0.09060	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.091
365	5.10	5.00	7.62078	48.1	0.09082	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.091
366	5.00	4.90	7.63898	48.0	0.09104	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.091
367	4.90	4.80	7.65719	47.9	0.09126	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.091
368	4.80	4.70	7.67539	47.7	0.09147	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.091
369	4.70	4.60	7.69360	47.6	0.09169	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.092
370	4.60	4.50	7.71180	47.5	0.09191	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.092
371	4.50	4.40	7.73000	47.4	0.09212	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.092
372	4.40	4.30	7.74821	47.3	0.09234	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.092
373	4.30	4.20	7.76641	47.2	0.09256	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.093
374	4.20	4.10	7.78462	47.1	0.09277	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.093
375	4.10	4.00	7.80282	47.0	0.09299	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.093
376	4.00	3.90	7.82103	46.9	0.09321	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.093
377	3.90	3.80	7.83923	46.7	0.09342	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.093
378	3.80	3.70	7.85743	46.6	0.09364	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.094

379	3.70	3.60	7.87564	46.5	0.09386	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.094
380	3.60	3.50	7.89384	46.4	0.09408	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.094
381	3.50	3.40	7.91205	46.3	0.09429	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.094
382	3.40	3.30	7.93025	46.2	0.09451	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.095
383	3.30	3.20	7.94845	46.1	0.09473	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.095
384	3.20	3.10	7.96666	46.0	0.09494	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.095
385	3.10	3.00	7.98486	45.9	0.09516	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.095
386	3.00	2.90	8.00307	45.8	0.09538	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.095
387	2.90	2.80	8.02127	45.7	0.09559	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.096
388	2.80	2.70	8.03947	45.6	0.09581	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.096
389	2.70	2.60	8.05768	45.5	0.09603	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.096
390	2.60	2.50	8.07588	45.4	0.09624	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.096
391	2.50	2.40	8.09409	45.3	0.09646	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.096
392	2.40	2.30	8.11229	45.2	0.09668	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.097
393	2.30	2.20	8.13049	45.1	0.09690	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.097
394	2.20	2.10	8.14870	45.0	0.09711	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.097
395	2.10	2.00	8.16690	44.9	0.09733	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.097
396	2.00	1.90	8.18510	44.8	0.09755	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.098
397	1.90	1.80	8.20331	44.7	0.09776	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.098
398	1.80	1.70	8.22151	44.6	0.09798	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.098
399	1.70	1.60	8.23972	44.5	0.09820	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.098
400	1.60	1.50	8.25792	44.4	0.09841	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.098
401	1.50	1.40	8.27612	44.3	0.09863	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.099
402	1.40	1.30	8.29433	44.2	0.09885	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.099
403	1.30	1.20	8.31253	44.1	0.09907	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.099
404	1.20	1.10	8.33073	44.0	0.09928	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.099
405	1.10	1.00	8.34894	43.9	0.09950	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.099
406	1.00	0.90	8.36714	43.8	0.09972	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.100
407	0.90	0.80	8.38535	43.7	0.09993	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.100
408	0.80	0.70	8.40355	43.6	0.10015	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.100
409	0.70	0.60	8.42175	43.5	0.10037	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.100
410	0.60	0.50	8.43996	43.4	0.10058	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.101
411	0.50	0.40	8.45816	43.3	0.10080	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.101
412	0.40	0.30	8.47636	43.2	0.10102	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.101
413	0.30	0.20	8.49457	43.1	0.10123	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.101
414	0.20	0.10	8.51277	43.1	0.10145	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.101
415	0.10	0.00	8.53098	43.0	0.10167	0.01	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.102
TOT						1.25			822316.06	480886.00					
AVG					0.09073		1.71	49.07			83.91				
CUM						5.29									

********** 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
318	9.700	7.95	0.57	0.10	0.00	0.00	0.00	0.00	0.00	1.56	1.56	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
319	9.600	7.95	0.57	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
320	9.500	7.94	0.57	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
321	9.400	7.94	0.57	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
322	9.300	7.94	0.57	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
323	9.200	7.94	0.58	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
324	9.100	7.94	0.58	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00

325	9.000	7.94	0.58	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.45	0.00
326	8.900	7.94	0.58	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
327	8.800	7.94	0.58	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
328	8.700	7.93	0.58	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
329	8.600	7.93	0.58	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
330	8.500	7.93	0.58	0.10	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
331	8.400	7.93	0.58	0.10	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
332	8.300	7.93	0.58	0.10	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
333	8.200	7.93	0.58	0.10	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
334	8.100	7.93	0.58	0.10	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
335	8.000	7.93	0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
336	7.900	7.92	0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
337	7.800	7.92	0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
338	7.700	7.92	0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
339	7.600	7.92	0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
340	7.500	7.92	0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
341	7.400	7.92	0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
342	7.300	7.92	0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
343	7.200	7.91	0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
344	7.100	7.91	0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
345	7.000	7.91	0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
346	6.900	7.91	0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
347	6.800	7.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
348	6.700	7.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
349	6.600	7.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
350	6.500	7.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
351	6.400	7.90	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
352	6.300	7.90	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
353	6.200	7.90	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
354	6.100	7.90	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
355	6.000	7.90	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
356	5.900	7.90	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
357	5.800	7.90	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
358	5.700	7.90	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
359	5.600	7.89	0.61	0.10	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
360	5.500	7.89	0.61	0.10	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.46	0.00
361	5.400	7.89	0.61	0.10	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
362	5.300	7.89	0.61	0.10	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
363	5.200	7.89	0.61	0.10	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
364	5.100	7.89	0.61	0.10	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
365	5.000	7.89	0.61	0.10	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
366	4.900	7.89	0.61	0.10	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
367	4.800	7.88	0.61	0.10	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
368	4.700	7.88	0.61	0.10	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
369	4.600	7.88	0.61	0.10	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
370	4.500	7.88	0.61	0.10	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
371	4.400	7.88	0.62	0.10	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
372	4.300	7.88	0.62	0.10	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
373	4.200	7.88	0.62	0.10	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
374	4.100	7.88	0.62	0.10	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
375	4.000	7.87	0.62	0.10	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
376	3.900	7.87	0.62	0.10	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
377	3.800	7.87	0.62	0.10	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
378	3.700	7.87	0.62	0.10	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
379	3.600	7.87	0.62	0.10	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
380	3.500	7.87	0.62	0.10	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00

381	3.400	7.87	0.62	0.10	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
382	3.300	7.86	0.62	0.10	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
383	3.200	7.86	0.63	0.10	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
384	3.100	7.86	0.63	0.10	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
385	3.000	7.86	0.63	0.10	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
386	2.900	7.86	0.63	0.10	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
387	2.800	7.86	0.63	0.10	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
388	2.700	7.86	0.63	0.10	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
389	2.600	7.86	0.63	0.10	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
390	2.500	7.85	0.63	0.10	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
391	2.400	7.85	0.63	0.10	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
392	2.300	7.85	0.63	0.10	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
393	2.200	7.85	0.63	0.10	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
394	2.100	7.85	0.63	0.10	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.47	0.00
395	2.000	7.85	0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
396	1.900	7.85	0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
397	1.800	7.85	0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
398	1.700	7.84	0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
399	1.600	7.84	0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
400	1.500	7.84	0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
401	1.400	7.84	0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
402	1.300	7.84	0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
403	1.200	7.84	0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
404	1.100	7.84	0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
405	1.000	7.84	0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
406	0.900	7.83	0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
407	0.800	7.83	0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
408	0.700	7.83	0.65	0.10	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
409	0.600	7.83	0.65	0.10	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
410	0.500	7.83	0.65	0.10	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
411	0.400	7.83	0.65	0.10	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
412	0.300	7.83	0.65	0.10	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
413	0.200	7.83	0.65	0.10	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
414	0.100	7.82	0.65	0.10	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
415	0.000	7.82	0.65	0.10	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.48	0.00
AVG 20 DEG C RATE			0.53	0.07	0.00	0.00	0.00	0.00	0.00	1.00			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.28	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
318	9.700	27.11	0.12	28.97	246.57	2.15	11.06	0.00	11.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
319	9.600	27.12	0.12	28.97	246.56	2.16	11.08	0.00	11.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.82
320	9.500	27.13	0.12	28.97	246.55	2.16	11.09	0.00	11.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.81
321	9.400	27.14	0.12	28.97	246.54	2.16	11.10	0.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.79
322	9.300	27.15	0.12	28.97	246.53	2.16	11.11	0.00	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.78
323	9.200	27.16	0.12	28.97	246.52	2.17	11.13	0.00	11.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.77
324	9.100	27.16	0.12	28.97	246.51	2.17	11.14	0.00	11.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.75
325	9.000	27.17	0.12	28.97	246.50	2.17	11.15	0.00	11.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.74
326	8.900	27.18	0.12	28.97	246.49	2.18	11.16	0.00	11.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.72
327	8.800	27.19	0.12	28.97	246.48	2.18	11.17	0.00	11.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.71

328	8.700	27.20	0.12	28.96	246.47	2.18	11.19	0.00	11.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.70
329	8.600	27.21	0.12	28.96	246.46	2.19	11.20	0.00	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.68
330	8.500	27.22	0.12	28.96	246.46	2.19	11.21	0.00	11.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.67
331	8.400	27.23	0.12	28.96	246.45	2.19	11.22	0.00	11.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.66
332	8.300	27.24	0.12	28.96	246.44	2.20	11.23	0.00	11.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.64
333	8.200	27.25	0.12	28.96	246.43	2.20	11.24	0.00	11.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.63
334	8.100	27.26	0.12	28.96	246.42	2.20	11.25	0.00	11.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.62
335	8.000	27.27	0.12	28.96	246.41	2.21	11.26	0.00	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.61
336	7.900	27.27	0.12	28.96	246.40	2.21	11.28	0.00	11.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.59
337	7.800	27.28	0.12	28.96	246.39	2.21	11.29	0.00	11.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.58
338	7.700	27.29	0.12	28.96	246.38	2.22	11.30	0.00	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.57
339	7.600	27.30	0.12	28.96	246.38	2.22	11.31	0.00	11.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.56
340	7.500	27.31	0.12	28.96	246.37	2.23	11.32	0.00	11.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.54
341	7.400	27.32	0.12	28.96	246.36	2.23	11.33	0.00	11.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.53
342	7.300	27.33	0.12	28.96	246.35	2.23	11.34	0.00	11.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
343	7.200	27.34	0.12	28.96	246.34	2.24	11.35	0.00	11.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.51
344	7.100	27.35	0.12	28.96	246.33	2.24	11.36	0.00	11.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.50
345	7.000	27.36	0.12	28.96	246.33	2.24	11.37	0.00	11.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.49
346	6.900	27.37	0.12	28.96	246.32	2.25	11.38	0.00	11.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.48
347	6.800	27.38	0.12	28.96	246.31	2.25	11.39	0.00	11.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.46
348	6.700	27.38	0.12	28.96	246.30	2.26	11.40	0.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.45
349	6.600	27.39	0.12	28.96	246.29	2.26	11.41	0.00	11.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.44
350	6.500	27.40	0.12	28.96	246.28	2.27	11.42	0.00	11.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.43
351	6.400	27.41	0.12	28.96	246.28	2.27	11.43	0.00	11.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.42
352	6.300	27.42	0.12	28.96	246.27	2.27	11.44	0.00	11.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.41
353	6.200	27.43	0.12	28.96	246.26	2.28	11.45	0.00	11.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.40
354	6.100	27.44	0.12	28.96	246.25	2.28	11.46	0.00	11.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.39
355	6.000	27.45	0.12	28.96	246.24	2.29	11.47	0.00	11.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.38
356	5.900	27.46	0.12	28.96	246.24	2.29	11.48	0.00	11.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.37
357	5.800	27.47	0.11	28.96	246.23	2.30	11.49	0.00	11.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.36
358	5.700	27.48	0.11	28.96	246.22	2.30	11.50	0.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.35
359	5.600	27.49	0.11	28.96	246.21	2.30	11.51	0.00	11.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.34
360	5.500	27.49	0.11	28.96	246.20	2.31	11.52	0.00	11.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.33
361	5.400	27.50	0.11	28.96	246.20	2.31	11.53	0.00	11.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.32
362	5.300	27.51	0.11	28.96	246.19	2.32	11.54	0.00	11.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.31
363	5.200	27.52	0.11	28.96	246.18	2.32	11.55	0.00	11.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.30
364	5.100	27.53	0.11	28.96	246.17	2.33	11.56	0.00	11.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.29
365	5.000	27.54	0.11	28.96	246.17	2.33	11.57	0.00	11.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.28
366	4.900	27.55	0.11	28.96	246.16	2.34	11.58	0.00	11.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.27
367	4.800	27.56	0.11	28.96	246.15	2.34	11.58	0.00	11.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.26
368	4.700	27.57	0.11	28.96	246.14	2.34	11.59	0.00	11.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.25
369	4.600	27.58	0.11	28.96	246.14	2.35	11.60	0.00	11.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.25
370	4.500	27.59	0.11	28.96	246.13	2.35	11.61	0.00	11.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.24
371	4.400	27.60	0.11	28.96	246.12	2.36	11.62	0.00	11.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.23
372	4.300	27.61	0.11	28.96	246.11	2.36	11.63	0.00	11.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.22
373	4.200	27.61	0.11	28.96	246.11	2.37	11.64	0.00	11.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.21
374	4.100	27.62	0.11	28.96	246.10	2.37	11.65	0.00	11.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.20
375	4.000	27.63	0.11	28.96	246.09	2.38	11.65	0.00	11.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.19
376	3.900	27.64	0.11	28.96	246.09	2.38	11.66	0.00	11.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.19
377	3.800	27.65	0.11	28.96	246.08	2.39	11.67	0.00	11.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.18
378	3.700	27.66	0.11	28.96	246.07	2.39	11.68	0.00	11.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.17
379	3.600	27.67	0.11	28.96	246.06	2.39	11.69	0.00	11.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.16
380	3.500	27.68	0.11	28.96	246.06	2.40	11.70	0.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.15
381	3.400	27.69	0.11	28.96	246.05	2.40	11.70	0.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.14
382	3.300	27.70	0.11	28.96	246.04	2.41	11.71	0.00	11.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.14
383	3.200	27.71	0.11	28.96	246.04	2.41	11.72	0.00	11.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.13

384	3.100	27.72	0.11	28.96	246.03	2.42	11.73	0.00	11.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.12
385	3.000	27.72	0.11	28.96	246.02	2.42	11.74	0.00	11.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.11
386	2.900	27.73	0.11	28.96	246.02	2.43	11.74	0.00	11.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.11
387	2.800	27.74	0.11	28.96	246.01	2.43	11.75	0.00	11.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
388	2.700	27.75	0.11	28.96	246.00	2.44	11.76	0.00	11.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.09
389	2.600	27.76	0.11	28.96	245.99	2.44	11.77	0.00	11.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.08
390	2.500	27.77	0.11	28.96	245.99	2.45	11.77	0.00	11.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.08
391	2.400	27.78	0.11	28.96	245.98	2.45	11.78	0.00	11.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.07
392	2.300	27.79	0.11	28.96	245.97	2.46	11.79	0.00	11.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.06
393	2.200	27.80	0.11	28.96	245.97	2.46	11.80	0.00	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.05
394	2.100	27.81	0.11	28.96	245.96	2.46	11.80	0.00	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.05
395	2.000	27.82	0.11	28.96	245.96	2.47	11.81	0.00	11.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04
396	1.900	27.83	0.10	28.96	245.95	2.47	11.82	0.00	11.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.03
397	1.800	27.83	0.10	28.95	245.94	2.48	11.83	0.00	11.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.03
398	1.700	27.84	0.10	28.95	245.94	2.48	11.83	0.00	11.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.02
399	1.600	27.85	0.10	28.95	245.93	2.49	11.84	0.00	11.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.01
400	1.500	27.86	0.10	28.95	245.92	2.49	11.85	0.00	11.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.01
401	1.400	27.87	0.10	28.95	245.92	2.50	11.86	0.00	11.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.00
402	1.300	27.88	0.10	28.95	245.91	2.50	11.86	0.00	11.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.99
403	1.200	27.89	0.10	28.95	245.90	2.51	11.87	0.00	11.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.99
404	1.100	27.90	0.10	28.95	245.90	2.51	11.88	0.00	11.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.98
405	1.000	27.91	0.10	28.95	245.89	2.52	11.88	0.00	11.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.97
406	0.900	27.92	0.10	28.95	245.88	2.52	11.89	0.00	11.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.97
407	0.800	27.93	0.10	28.95	245.88	2.52	11.90	0.00	11.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.96
408	0.700	27.94	0.10	28.95	245.87	2.53	11.91	0.00	11.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.95
409	0.600	27.94	0.10	28.95	245.87	2.53	11.91	0.00	11.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.95
410	0.500	27.95	0.10	28.95	245.86	2.54	11.92	0.00	11.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.94
411	0.400	27.96	0.10	28.96	245.85	2.54	11.93	0.00	11.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.94
412	0.300	27.97	0.10	28.98	245.84	2.55	11.93	0.00	11.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.93
413	0.200	27.98	0.10	29.11	245.78	2.58	11.95	0.00	11.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.94
414	0.100	27.99	0.10	29.98	245.45	2.73	12.04	0.00	12.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.02
415	0.000	28.00	0.10	35.53	243.37	3.69	12.58	0.00	12.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.56

STREAM SUMMARY
Baker Canal East

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO

TRAVEL TIME	=	5.29	DAYS		
MAXIMUM EFFLUENT	=	57.67	PERCENT		
FLOW	=	1.00800	TO	8.53098	m^3/s
DISPERSION	=	0.8700	TO	1.8800	m^2/s
VELOCITY	=	0.03953	TO	0.11008	m/s
DEPTH	=	0.94	TO	1.71	m
WIDTH	=	21.94	TO	49.07	m
BOD DECAY	=	0.09	TO	0.14	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	1.56	TO	5.40	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.49	TO	1.33	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	=	25.40	TO	28.00	deg C
DISSOLVED OXYGEN	=	1.56	TO	3.69	mg/L

********** 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
32	HDWTR	0.31100	26.60	0.25	64.90	305.00	2.14	20.97	0.00	20.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.89
EACH	INCR	0.00800	0.00	0.00	28.90	243.00	2.91	11.74	0.00			0.00	0.00	0.00	0.00	0.00	4.07	

********** 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
32	3.20	3.10	0.31900	0.0	0.01817	0.06	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.018
33	3.10	3.00	0.32700	0.0	0.01863	0.06	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.019
34	3.00	2.90	0.33500	0.0	0.01908	0.06	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.019
35	2.90	2.80	0.34300	0.0	0.01954	0.06	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.020
36	2.80	2.70	0.35100	0.0	0.02000	0.06	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.020
37	2.70	2.60	0.35900	0.0	0.02045	0.06	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.020
38	2.60	2.50	0.36700	0.0	0.02091	0.06	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.021
39	2.50	2.40	0.37500	0.0	0.02136	0.05	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.021
40	2.40	2.30	0.38300	0.0	0.02182	0.05	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.022
41	2.30	2.20	0.39100	0.0	0.02227	0.05	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.022
42	2.20	2.10	0.39900	0.0	0.02273	0.05	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.023
43	2.10	2.00	0.40700	0.0	0.02319	0.05	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.023
44	2.00	1.90	0.41500	0.0	0.02364	0.05	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.024
45	1.90	1.80	0.42300	0.0	0.02410	0.05	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.024
46	1.80	1.70	0.43100	0.0	0.02455	0.05	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.025
47	1.70	1.60	0.43900	0.0	0.02501	0.05	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.025
48	1.60	1.50	0.44700	0.0	0.02546	0.05	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.025
49	1.50	1.40	0.45500	0.0	0.02592	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.026
50	1.40	1.30	0.46300	0.0	0.02638	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.026
51	1.30	1.20	0.47100	0.0	0.02683	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.027
52	1.20	1.10	0.47900	0.0	0.02729	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.027
53	1.10	1.00	0.48700	0.0	0.02774	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.028
54	1.00	0.90	0.49500	0.0	0.02820	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.028
55	0.90	0.80	0.50300	0.0	0.02866	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.029
56	0.80	0.70	0.51100	0.0	0.02911	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.029
57	0.70	0.60	0.51900	0.0	0.02957	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.030
58	0.60	0.50	0.52700	0.0	0.03002	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.030
59	0.50	0.40	0.53500	0.0	0.03048	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.030
60	0.40	0.30	0.54300	0.0	0.03093	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.031
61	0.30	0.20	0.55100	0.0	0.03139	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.031
62	0.20	0.10	0.55900	0.0	0.03185	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.032
63	0.10	0.00	0.56700	0.0	0.03230	0.04	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.032
TOT						1.51			56171.51	78016.00					
AVG					0.02452		0.72	24.38			17.55				
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	NCM SETT 1/da
32	3.100	8.04	1.45	0.12	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
33	3.000	8.04	1.46	0.12	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
34	2.900	8.05	1.47	0.12	0.00	0.00	0.00	0.00	0.00	3.29	3.29	3.29	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
35	2.800	8.05	1.48	0.12	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.28	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
36	2.700	8.06	1.49	0.12	0.00	0.00	0.00	0.00	0.00	3.28	3.28	3.28	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
37	2.600	8.06	1.50	0.12	0.00	0.00	0.00	0.00	0.00	3.27	3.27	3.27	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
38	2.500	8.07	1.51	0.12	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
39	2.400	8.07	1.51	0.12	0.00	0.00	0.00	0.00	0.00	3.26	3.26	3.26	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
40	2.300	8.08	1.52	0.12	0.00	0.00	0.00	0.00	0.00	3.25	3.25	3.25	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
41	2.200	8.08	1.53	0.12	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
42	2.100	8.09	1.54	0.12	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
43	2.000	8.09	1.55	0.12	0.00	0.00	0.00	0.00	0.00	3.23	3.23	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
44	1.900	8.10	1.56	0.12	0.00	0.00	0.00	0.00	0.00	3.22	3.22	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
45	1.800	8.10	1.57	0.12	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.17	0.00
46	1.700	8.11	1.58	0.12	0.00	0.00	0.00	0.00	0.00	3.21	3.21	3.21	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
47	1.600	8.11	1.59	0.12	0.00	0.00	0.00	0.00	0.00	3.20	3.20	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
48	1.500	8.12	1.60	0.12	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
49	1.400	8.12	1.61	0.12	0.00	0.00	0.00	0.00	0.00	3.19	3.19	3.18	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
50	1.300	8.13	1.62	0.12	0.00	0.00	0.00	0.00	0.00	3.18	3.18	3.18	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
51	1.200	8.14	1.62	0.12	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.17	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
52	1.100	8.14	1.63	0.12	0.00	0.00	0.00	0.00	0.00	3.17	3.17	3.16	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
53	1.000	8.15	1.64	0.12	0.00	0.00	0.00	0.00	0.00	3.16	3.16	3.16	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
54	0.900	8.15	1.65	0.12	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.15	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
55	0.800	8.16	1.66	0.12	0.00	0.00	0.00	0.00	0.00	3.15	3.15	3.14	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
56	0.700	8.16	1.67	0.12	0.00	0.00	0.00	0.00	0.00	3.14	3.14	3.14	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
57	0.600	8.17	1.68	0.12	0.00	0.00	0.00	0.00	0.00	3.13	3.13	3.13	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
58	0.500	8.17	1.69	0.12	0.00	0.00	0.00	0.00	0.00	3.12	3.12	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
59	0.400	8.18	1.70	0.12	0.00	0.00	0.00	0.00	0.00	3.12	3.12	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
60	0.300	8.18	1.71	0.12	0.00	0.00	0.00	0.00	0.00	3.11	3.11	3.11	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
61	0.200	8.19	1.71	0.12	0.00	0.00	0.00	0.00	0.00	3.10	3.10	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
62	0.100	8.19	1.72	0.12	0.00	0.00	0.00	0.00	0.00	3.10	3.10	3.09	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
63	0.000	8.20	1.73	0.12	0.00	0.00	0.00	0.00	0.00	3.09	3.09	3.09	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.00
AVG 20 DEG C RATE			1.42	0.09	0.00	0.00	0.00	0.00	0.00	2.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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
32	3.100	26.47	0.19	63.60	302.76	2.22	20.41	0.00	20.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.79
33	3.000	26.43	0.19	62.77	301.33	2.28	20.06	0.00	20.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.72
34	2.900	26.40	0.18	61.98	299.96	2.33	19.72	0.00	19.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.66
35	2.800	26.36	0.18	61.22	298.66	2.38	19.41	0.00	19.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.60
36	2.700	26.33	0.18	60.50	297.42	2.44	19.10	0.00	19.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.55
37	2.600	26.29	0.17	59.80	296.23	2.49	18.82	0.00	18.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.49
38	2.500	26.26	0.17	59.14	295.08	2.55	18.55	0.00	18.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.44
39	2.400	26.23	0.16	58.51	293.99	2.60	18.29	0.00	18.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.40
40	2.300	26.19	0.16	57.90	292.94	2.65	18.04	0.00	18.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.35
41	2.200	26.16	0.16	57.32	291.94	2.70	17.81	0.00	17.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.31
42	2.100	26.12	0.15	56.75	290.97	2.75	17.58	0.00	17.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.27
43	2.000	26.09	0.15	56.21	290.04	2.81	17.37	0.00	17.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.23
44	1.900	26.05	0.15	55.69	289.15	2.85	17.16	0.00	17.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.19
45	1.800	26.02	0.14	55.19	288.28	2.90	16.97	0.00	16.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.16
46	1.700	25.98	0.14	54.71	287.45	2.95	16.78	0.00	16.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.13
47	1.600	25.95	0.13	54.25	286.65	3.00	16.60	0.00	16.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.09
48	1.500	25.92	0.13	53.80	285.88	3.05	16.42	0.00	16.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.06
49	1.400	25.88	0.13	53.37	285.14	3.09	16.26	0.00	16.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.04
50	1.300	25.85	0.12	52.95	284.42	3.14	16.10	0.00	16.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.01
51	1.200	25.81	0.12	52.54	283.72	3.18	15.95	0.00	15.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.98
52	1.100	25.78	0.12	52.15	283.05	3.22	15.80	0.00	15.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.96
53	1.000	25.74	0.11	51.77	282.40	3.27	15.66	0.00	15.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.93
54	0.900	25.71	0.11	51.41	281.77	3.31	15.52	0.00	15.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.91
55	0.800	25.67	0.11	51.05	281.15	3.35	15.39	0.00	15.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.89
56	0.700	25.64	0.10	50.71	280.56	3.39	15.26	0.00	15.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.86
57	0.600	25.61	0.10	50.38	279.99	3.43	15.14	0.00	15.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.84
58	0.500	25.57	0.09	50.05	279.42	3.47	15.02	0.00	15.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.82
59	0.400	25.54	0.09	49.72	278.83	3.51	14.91	0.00	14.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.81
60	0.300	25.50	0.09	49.32	278.08	3.55	14.79	0.00	14.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.79
61	0.200	25.47	0.08	48.63	276.56	3.57	14.63	0.00	14.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.81
62	0.100	25.43	0.08	46.52	271.37	3.53	14.27	0.00	14.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.95
63	0.000	25.40	0.08	37.69	248.96	3.19	12.99	0.00	12.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	4.65

STREAM SUMMARY
Bayou Verret

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO

TRAVEL TIME = 1.51 DAYS

MAXIMUM EFFLUENT = 0.00 PERCENT

FLOW	=	0.31900	TO	0.56700	m³/s
DISPERSION	=	0.8700	TO	0.8700	m²/s
VELOCITY	=	0.01817	TO	0.03230	m/s
DEPTH	=	0.72	TO	0.72	m
WIDTH	=	24.38	TO	24.38	m
BOD DECAY	=	0.12	TO	0.12	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	3.09	TO	3.31	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d

```
REAERATION        =    1.45   TO    1.73      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       =   25.40   TO   26.47      deg C
DISSOLVED OXYGEN  =    2.22   TO    3.57      mg/L
```

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REVISED CALIBRATED MODEL FOR BAYOU CHEVREUIL SYSTEM,using OCONNO

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	1.311	187.1	1429.2	0.0	0.0	0.0	0.0	0.0	0.0	857.2
INCREMENTAL INFLOW	4.320	1086.2	4381.9	0.0	0.0	0.0	0.0	0.0	0.0	1519.1
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	3.940	613.9	3784.4	0.0	0.0	0.0	0.0	0.0	0.0	1629.4
WITHDRAWLS	-1.040	-248.1	-836.4	0.0	0.0	0.0	0.0	0.0	0.0	-286.9
OUTFLOW THRU LOWER BNDRY	-8.531	-2722.6	-9275.7	0.0	0.0	0.0	0.0	0.0	0.0	-1885.2
DISPERSION THRU LOWER BNDRY		846.7	467.6	0.0	0.0	0.0	0.0	0.0	0.0	477.7
NON-POINT INPUT		0.0	2415.0	0.0	0.0					0.0
NATURAL REAERATION		8899.0								
DAM REAERATION		0.0								
BACKGROUND SOD		-3985.1								
BOD#1 DECAY		-2366.1	-2366.1							
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		0.0				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		-2311.3								-2311.3
NCM SETTLING		0.0								0.0
TOTAL INPUTS	9.571	11632.9	12478.2	0.0	0.0	0.0	0.0	0.0	0.0	4483.4
TOTAL OUTPUTS	-9.571	-11633.2	-12478.2	0.0	0.0	0.0	0.0	0.0	0.0	-4483.4
NET CONVERGENCE ERROR	0.000	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

.....EXECUTION COMPLETED

APPENDIX L

90th Percentile Temperature Calculations

Bayou Chevreuil near Chegby (Chackbay), Louisiana
Data retreived from LDEQ website (http://www.deq.state.la.us/surveillance/wqdata/wqnsites.stm)

summer 90th percentile 29.50
winter 90th percentile 21.00

DATE	WATER TEMP (C)	Season	Percentile	DATE	WATER TEMP (C)	Season	Percentile
10/15/80	17.5	summer	0.48%	12/13/78	5.0	winter	0.49%
10/13/87	18.6	summer	1.43%	1/9/96	6.2	winter	1.46%
10/10/88	18.8	summer	2.38%	1/11/88	6.6	winter	2.43%
5/11/93	20.8	summer	3.33%	1/11/82	7.0	winter	3.40%
5/14/80	21.0	summer	4.29%	2/8/88	7.3	winter	4.37%
10/10/79	21.0	summer	5.24%	1/12/81	7.5	winter	5.34%
5/16/79	21.0	summer	6.19%	1/10/79	8.0	winter	6.31%
10/10/89	21.7	summer	7.14%	1/14/85	8.2	winter	7.28%
5/12/92	22.0	summer	8.10%	2/13/80	9.0	winter	8.25%
8/15/79	22.0	summer	9.05%	1/12/87	9.5	winter	9.22%
5/13/97	22.2	summer	10.00%	12/5/00	9.6	winter	10.19%
6/11/80	22.5	summer	10.95%	1/11/94	10.0	winter	11.17%
9/15/92	22.6	summer	11.90%	1/13/86	10.1	winter	12.14%
10/16/90	22.7	summer	12.86%	2/7/83	10.2	winter	13.11%
5/10/88	22.8	summer	13.81%	12/13/82	10.3	winter	14.08%
7/11/79	23.0	summer	14.76%	11/19/80	10.5	winter	15.05%
5/9/83	23.1	summer	15.71%	12/11/90	11.0	winter	16.02%
10/31/00	23.5	summer	16.67%	3/14/79	11.0	winter	16.99%
5/14/91	24.0	summer	17.62%	2/14/79	11.0	winter	17.96%
5/9/89	24.0	summer	18.57%	3/12/96	11.2	winter	18.93%
5/11/87	24.0	summer	19.52%	12/12/89	11.4	winter	19.90%
5/10/82	24.0	summer	20.48%	1/15/91	11.5	winter	20.87%
6/13/79	24.0	summer	21.43%	2/9/81	11.5	winter	21.84%
10/11/78	24.0	summer	22.38%	2/11/85	11.8	winter	22.82%
5/10/78	24.0	summer	23.33%	2/8/82	12.0	winter	23.79%
5/14/96	24.1	summer	24.29%	2/8/00	12.1	winter	24.76%
10/8/84	24.1	summer	25.24%	12/12/88	12.4	winter	25.73%
10/13/86	24.4	summer	26.19%	12/10/80	12.5	winter	26.70%
5/15/90	24.5	summer	27.14%	11/18/97	12.7	winter	27.67%
10/14/85	24.5	summer	28.10%	1/10/95	12.8	winter	28.64%
5/11/81	24.5	summer	29.05%	1/9/90	12.9	winter	29.61%
9/12/88	24.8	summer	30.00%	3/10/98	13.3	winter	30.58%
5/10/94	25.0	summer	30.95%	12/10/84	13.4	winter	31.55%
9/16/80	25.0	summer	31.90%	1/7/92	13.8	winter	32.52%
7/12/94	25.1	summer	32.86%	11/17/92	13.9	winter	33.50%
10/3/00	25.2	summer	33.81%	11/13/84	14.0	winter	34.47%
10/10/83	25.2	summer	34.76%	12/14/81	14.0	winter	35.44%
6/14/88	25.6	summer	35.71%	1/9/84	14.5	winter	36.41%
5/12/98	25.7	summer	36.67%	12/8/86	14.6	winter	37.38%
8/13/84	25.8	summer	37.62%	12/9/85	14.8	winter	38.35%

DATE	WATER TEMP (C)	Season	Percentile
7/13/93	25.9	summer	38.57%
9/12/83	26.0	summer	39.52%
9/13/94	26.1	summer	40.48%
9/9/85	26.1	summer	41.43%
8/15/89	26.2	summer	42.38%
10/11/82	26.2	summer	43.33%
8/8/88	26.3	summer	44.29%
6/8/87	26.4	summer	45.24%
5/9/00	26.5	summer	46.19%
10/12/81	26.5	summer	47.14%
9/12/79	26.5	summer	48.10%
8/9/82	26.6	summer	49.05%
9/10/91	26.8	summer	50.00%
7/8/85	26.8	summer	50.95%
8/10/87	26.9	summer	51.90%
7/15/97	27.0	summer	52.86%
6/13/89	27.0	summer	53.81%
9/10/84	27.0	summer	54.76%
5/14/84	27.0	summer	55.71%
6/13/83	27.0	summer	56.67%
9/14/81	27.0	summer	57.62%
6/8/81	27.0	summer	58.57%
9/13/78	27.0	summer	59.52%
6/14/78	27.0	summer	60.48%
7/12/88	27.1	summer	61.43%
5/13/85	27.4	summer	62.38%
9/12/95	27.5	summer	63.33%
7/16/91	27.5	summer	64.29%
8/13/80	27.5	summer	65.24%
9/13/82	27.6	summer	66.19%
9/10/96	27.7	summer	67.14%
5/12/86	27.7	summer	68.10%
7/11/83	27.7	summer	69.05%
9/14/87	27.8	summer	70.00%
9/12/89	27.9	summer	70.95%
7/13/81	28.0	summer	71.90%
8/16/78	28.0	summer	72.86%
6/6/00	28.1	summer	73.81%
9/11/90	28.1	summer	74.76%
6/12/90	28.1	summer	75.71%
9/8/86	28.2	summer	76.67%
9/14/93	28.2	summer	77.62%
7/13/87	28.3	summer	78.57%
8/11/86	28.4	summer	79.52%
7/9/96	28.5	summer	80.48%
9/9/97	28.6	summer	81.43%

DATE	WATER TEMP (C)	Season	Percentile
4/12/88	14.9	winter	39.32%
3/8/82	15.0	winter	40.29%
4/16/80	15.0	winter	41.26%
3/6/78	15.0	winter	42.23%
3/9/87	15.1	winter	43.20%
11/14/95	15.4	winter	44.17%
11/14/90	15.5	winter	45.15%
4/11/89	15.5	winter	46.12%
11/16/82	15.5	winter	47.09%
1/13/98	15.6	winter	48.06%
3/12/84	15.6	winter	49.03%
3/14/88	15.7	winter	50.00%
1/10/83	15.8	winter	50.97%
1/12/93	16.0	winter	51.94%
3/9/81	16.0	winter	52.91%
11/7/79	16.0	winter	53.88%
1/7/97	16.4	winter	54.85%
3/12/91	16.4	winter	55.83%
3/15/94	16.5	winter	56.80%
1/11/00	16.6	winter	57.77%
3/14/83	16.6	winter	58.74%
3/9/93	16.7	winter	59.71%
2/13/84	16.7	winter	60.68%
12/12/83	16.7	winter	61.65%
2/16/87	16.8	winter	62.62%
1/9/89	17.0	winter	63.59%
1/16/80	17.0	winter	64.56%
12/12/79	17.0	winter	65.53%
2/13/90	17.1	winter	66.50%
2/17/86	17.1	winter	67.48%
11/17/86	17.5	winter	68.45%
11/17/87	17.7	winter	69.42%
4/10/90	18.0	winter	70.39%
11/16/81	18.5	winter	71.36%
3/14/95	18.6	winter	72.33%
11/16/93	18.7	winter	73.30%
12/14/87	19.0	winter	74.27%
11/15/78	19.0	winter	75.24%
11/14/83	19.2	winter	76.21%
4/11/00	19.3	winter	77.18%
11/19/96	19.4	winter	78.16%
4/18/79	19.5	winter	79.13%
3/14/00	19.8	winter	80.10%
4/11/83	19.8	winter	81.07%
4/12/82	20.0	winter	82.04%
3/12/80	20.0	winter	83.01%

DATE	WATER TEMP (C)	Season	Percentile
6/9/86	28.6	summer	82.38%
7/11/89	28.8	summer	83.33%
8/12/85	28.8	summer	84.29%
8/14/90	28.9	summer	85.24%
7/14/92	29.0	summer	86.19%
7/10/90	29.0	summer	87.14%
8/8/83	29.3	summer	88.10%
7/11/00	29.3	summer	89.05%
8/10/81	29.5	summer	90.00%
7/14/86	29.7	summer	90.95%
6/10/85	29.7	summer	91.90%
7/11/95	29.8	summer	92.86%
7/12/82	30.0	summer	93.81%
7/12/78	30.0	summer	94.76%
8/8/00	30.1	summer	95.71%
6/11/84	30.5	summer	96.67%
7/9/84	30.6	summer	97.62%
9/5/00	31.0	summer	98.57%
6/14/82	31.0	summer	99.52%

DATE	WATER TEMP (C)	Season	Percentile
11/15/94	20.1	winter	83.98%
11/19/91	20.1	winter	84.95%
4/13/87	20.1	winter	85.92%
11/14/89	20.5	winter	86.89%
4/9/84	20.7	winter	87.86%
3/10/92	20.9	winter	88.83%
3/14/89	21.0	winter	89.81%
4/12/78	21.0	winter	90.78%
3/11/97	21.1	winter	91.75%
11/14/88	21.9	winter	92.72%
4/8/85	22.0	winter	93.69%
3/13/90	22.0	winter	94.66%
3/17/86	22.1	winter	95.63%
11/18/85	23.2	winter	96.60%
4/14/86	23.5	winter	97.57%
3/11/85	23.6	winter	98.54%
4/13/81	25.0	winter	99.51%

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APPENDIX M

Model Inputs for Projections

BAYOU CHEVREUIL MODEL INPUTS FOR SUMMER NO LOAD PROJECTION

Table M.1. Summer No Load Inputs for Initial Conditions (Data Type 11).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
Temperature	all	29.5°C	90th percentile temperature

Table M.2. Summer No Load Inputs for SOD and 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	2.00	0	0	These values were calculated in the TMDL spreadsheet with all man made loads eliminated.
2	2.00	0	0	
3	1.78	3	0	
4	1.98	3	0	
5	1.85	5	0	
6	1.47	88	0	
7	0.79	349	0	
8	0.49	728	0	

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

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Baker Canal East	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	Temperature	29.5°C	90th percentile temperature
	DO	6.86 mg/L	90% saturation at 90th percentile temp.
	CBODu	4.90 mg/L	Calculated in the TMDL spreadsheet with all man made loads eliminated
	NBODu	4.10 mg/L	
Bayou Verret	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	Temperature	29.5°C	90th percentile temperature
	DO	6.86 mg/L	90% saturation at 90th percentile temp.
	CBODu	7.30 mg/L	Calculated in the TMDL spreadsheet with all man made loads eliminated
	NBODu	1.70 mg/L	

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

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Western St. James Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	6.86 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.89 mg/L	Calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	2.11 mg/L	
Grand Bayou	Flow rate	-0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	0 mg/L	Water quality information not used by model for outflows.
	CBODu	0 mg/L	
	NBODu	0 mg/L	
Eastern St. James Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	6.86 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.12 mg/L	Calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	2.88 mg/L	
Dredge Boat Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	6.86 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.35 mg/L	Calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	2.65 mg/L	

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

Parameter	Value used in model	Data Source / Comment
Temperature	29.5°C	90th percentile temperature for summer.
Salinity	0.10 ppt	Same as calibration.
Chloride	53.3 mg/L	Same as calibration.
Conductivity	236.7 µmhos	Same as calibration
DO	6.86 mg/L	90% saturation (based on a complete reduction of all man-made loads) at 90th percentile temperature
CBODu	6.92 mg/L	Calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
Chlorophyll a	0.0 µg/L	Same as calibration.
NBODu	2.08 mg/L	Calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated

BAYOU CHEVREUIL SYSTEM MODEL INPUTS FOR WINTER NO LOAD PROJECTION

Table M.6. Winter No Load Inputs for Initial Conditions (Data Type 11).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
Temperature	all	21.0°C	90th percentile temperature

Table M.7. Winter No Load Inputs for SOD and 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	2.00	0	0	These values were calculated in the TMDL spreadsheet with all man made loads eliminated.
2	2.00	0	0	
3	1.78	3	0	
4	1.98	3	0	
5	1.85	5	0	
6	1.47	88	0	
7	0.79	349	0	
8	0.49	728	0	

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

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Baker Canal East	Flow rate	0.028 m^3/sec	Default low flow for winter (1.0 cfs)
	Temperature	21.0°C	90th percentile temperature
	DO	8.03 mg/L	90% saturation at 90th percentile temp.
	CBODu	4.90 mg/L	Calculated in the TMDL spreadsheet with all man made loads eliminated
	NBODu	4.10 mg/L	
Bayou Verret	Flow rate	0.028 m^3/sec	Default low flow for winter (1.0 cfs)
	Temperature	21.0°C	90th percentile temperature
	DO	8.03 mg/L	90% saturation at 90th percentile temp.
	CBODu	7.30 mg/L	Calculated in the TMDL spreadsheet with all man made loads eliminated
	NBODu	1.70 mg/L	

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

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Western St. James Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1.0 cfs)
	DO	8.03 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.89 mg/L	Calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	2.11 mg/L	
Grand Bayou	Flow rate	-0.028 m^3/sec	Default low flow for winter (1.0 cfs)
	DO	0 mg/L	Water quality information not used by model for outflows.
	CBODu	0 mg/L	
	NBODu	0 mg/L	
Eastern St. James Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1.0 cfs)
	DO	8.03 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.12 mg/L	Calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	2.88 mg/L	
Dredge Boat Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1.0 cfs)
	DO	8.03 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.35 mg/L	Calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	2.65 mg/L	

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

Parameter	Value used in model	Data Source / Comment
Temperature	21.0°C	90th percentile temperature for winter.
Salinity	0.10 ppt	Same as calibration.
Chloride	53.3 mg/L	Same as calibration.
Conductivity	236.7 µmhos	Same as calibration.
DO	8.03 mg/L	90% saturation (based on a complete reduction of all man-made loads) at 90th percentile temperature
CBODu	6.92 mg/L	Calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
Chlorophyll a	0.0 µg/L	Same as calibration.
NBODu	2.08 mg/L	Calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated

BAYOU CHEVREUIL SYSTEM MODEL INPUTS FOR SUMMER PROJECTION

Table M.11. Summer Projection Inputs for Initial Conditions (Data Type 11).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
Temperature	all	29.5°C	90th percentile temperature

Table M.12. Summer Projection Inputs for SOD and 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	1.08	0	0	These values were calculated in the TMDL spreadsheet all man made loads eliminated and background reduced 46%.
2	1.08	0	0	
3	0.96	2	0	
4	1.07	2	0	
5	1.06	3	0	
6	0.79	48	0	
7	0.43	189	0	
8	0.26	393	0	

Table M.13. Summer Projection Inputs for Headwater (Data Types 20 and 21).

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Baker Canal East	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	Temperature	29.5°C	90th percentile temperature
	DO	7.21 mg/L	DO calculated for all man made loads eliminated and background loads reduced 46% (see section 5.2.4)
	CBODu	2.64 mg/L	all man made loads eliminated and background loads reduced 46%
	NBODu	2.22 mg/L	
Bayou Verret	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	Temperature	29.5°C	90th percentile temperature
	DO	7.21 mg/L	DO calculated for all man made loads eliminated and background loads reduced 46% (see section 5.2.4)
	CBODu	3.94 mg/L	all man made loads eliminated and background loads reduced 46%
	NBODu	0.92 mg/L	

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

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Western St. James Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	7.21 mg/L	DO calculated for all man made loads eliminated and background loads reduced 46% (see section 5.2.4)
	CBODu	3.72 mg/L	All man made loads eliminated and background loads reduced 46%
	NBODu	1.14 mg/L	
Grand Bayou	Flow rate	-0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	0 mg/L	Water quality information not used by model for outflows.
	CBODu	0 mg/L	
	NBODu	0 mg/L	
Eastern St. James Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	7.21 mg/L	DO calculated for all man made loads eliminated and background loads reduced 46% (see section 5.2.4)
	CBODu	3.30 mg/L	All man made loads eliminated and background loads reduced 46%
	NBODu	1.56 mg/L	
Dredge Boat Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	7.21 mg/L	DO calculated for all man made loads eliminated and background loads reduced 46% (see section 5.2.4)
	CBODu	3.43 mg/L	All man made loads eliminated and background loads reduced 46%
	NBODu	1.43 mg/L	

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

Parameter	Value used in model	Data Source / Comment
Temperature	29.5°C	90th percentile temperature for summer.
Salinity	0.10 ppt	Same as calibration.
Chloride	53.3 mg/L	Same as calibration.
Conductivity	236.7 µmhos	Same as calibration.
DO	7.21 mg/L	94.6% saturation (based on a 46% reduction of background loads and all man-made loads eliminated) at 90th percentile temperature
CBODu	1.62 mg/L	All man made loads eliminated and background loads reduced 46%
Chlorophyll a	0.0 µg/L	Same as calibration.
NBODu	2.33 mg/L	All man made loads eliminated and background loads reduced 46%

BAYOU CHEVREUIL SYSTEM MODEL INPUTS FOR WINTER PROJECTION

Table M.16. Winter Projection Inputs for Initial Conditions (Data Type 11).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
Temperature	all	21.0°C	90th percentile temperature

Table M.17. Winter Projection Inputs for SOD and 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	2.07	0	0	These values were calculated in the TMDL spreadsheet all man made loads reduced by 98%.
2	2.01	0	0	
3	2.03	1	0	
4	2.11	2	0	
5	2.01	3	0	
6	1.95	37	0	
7	1.41	211	0	
8	1.33	398	0	

Table M.18. Winter Projection Inputs for Headwater (Data Types 20 and 21).

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Baker Canal East	Flow rate	0.028 m^3/sec	Default low flow for winter (1.0 cfs)
	Temperature	21.0°C	90th percentile temperature
	DO	7.90 mg/L	DO calculated for all man made loads reduced by 98% (see section 5.2.4)
	CBODu	5.02 mg/L	Calculated in the TMDL spreadsheet with man made loads reduced by 98%
	NBODu	4.21 mg/L	
Bayou Verret	Flow rate	0.028 m^3/sec	Default low flow for winter (1.0 cfs)
	Temperature	21.0°C	90th percentile temperature
	DO	7.91 mg/L	DO calculated for all man made loads reduced by 98% (see section 5.2.4)
	CBODu	7.81 mg/L	Calculated in the TMDL spreadsheet with man made loads reduced by 98%
	NBODu	1.78 mg/L	

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

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Western St. James Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1.0 cfs)
	DO	7.93 mg/L	DO calculated for all man made loads reduced by 98% (see section 5.2.4)
	CBODu	9.36 mg/L	Calculated from TMDL spreadsheet with all man made loads reduced by 98%.
	NBODu	2.87 mg/L	
Grand Bayou	Flow rate	-0.028 m^3/sec	Default low flow for winter (1.0 cfs)
	DO	0 mg/L	Water quality information not used by model for outflows.
	CBODu	0 mg/L	
	NBODu	0 mg/L	
Eastern St. James Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1.0 cfs)
	DO	7.89 mg/L	DO calculated for all man made loads reduced by 98% (see section 5.2.4)
	CBODu	11.96 mg/L	Calculated from TMDL spreadsheet with all man made loads reduced by 98%.
	NBODu	5.63 mg/L	
Dredge Boat Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1.0 cfs)
	DO	7.91 mg/L	DO calculated for all man made loads reduced by 98% (see section 5.2.4)
	CBODu	10.13 mg/L	Calculated from TMDL spreadsheet with all man made loads reduced by 98%.
	NBODu	4.22 mg/L	

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

Parameter	Value used in model	Data Source / Comment
Temperature	21.0°C	90th percentile temperature for winter.
Salinity	0.10 ppt	Same as calibration.
Chloride	53.3 mg/L	Same as calibration.
Conductivity	236.7 µmhos	Same as calibration.
DO	8.02 mg/L	89.9% saturation (based on a 98% reduction of man-made loads) at 90th percentile temperature
CBODu	7.10 mg/L	Calculated from TMDL spreadsheet with all man made loads reduced by 98%.
Chlorophyll a	0.0 µg/L	Same as calibration.
NBODu	2.14 mg/L	Calculated from TMDL spreadsheet with all man made loads reduced by 98%.

TABLE M.21. BOUNDARY CONDITION DO CALCULATIONS FOR PROJECTIONS
BAYOU CHEVREUIL SYSTEM

ASSUMPTIONS: % saturation from calibration represents no NPS load reductions
90% saturation represents complete reduction of manmade NPS loads
100% saturation represents complete reduction of all NPS loads

METHDOLOGY: First determine % saturation for calibration conditions, then calculate % saturation for projection conditions based on the assumptions above and the percent reductions specified for that projection. Then convert each % saturation to mg/L based on the projection temperature.

Calibration values:	Calib. Temp (C)	Calib. DO (mg/L)	DO at 100% sat. (mg/L)	% sat for calib.
Baker Canal East	25.43	1.50	8.20	18.3%
Bayou Verret	26.60	2.14	8.02	26.7%
Western St James Canal	25.64	3.00	8.17	36.7%
Eastern St James Canal	26.07	1.30	8.10	16.0%
Dredge Boat Canal	26.25	2.00	8.07	24.8%
Lac des Allemands	28.00	6.80	7.82	86.9%

Summer No-Load run:
Manmade percent reduction = 100%
Background percent reduction = 0%

	% sat for proj.	Proj. temp (C)	DO at 100% sat. (mg/L)	Proj. input DO (mg/L)
Baker Canal East	90.0%	29.5	7.62	6.86
Bayou Verret	90.0%	29.5	7.62	6.86
Western St James Canal	90.0%	29.5	7.62	6.86
Eastern St James Canal	90.0%	29.5	7.62	6.86
Dredge Boat Canal	90.0%	29.5	7.62	6.86
Lac des Allemands	90.0%	29.5	7.62	6.86

Winter No-Load run:
Manmade percent reduction = 100%
Background percent reduction = 0%

	% sat for proj.	Proj. temp (C)	DO at 100% sat. (mg/L)	Proj. input DO (mg/L)
Baker Canal East	90.0%	21.0	8.92	8.03
Bayou Verret	90.0%	21.0	8.92	8.03
Western St James Canal	90.0%	21.0	8.92	8.03
Eastern St James Canal	90.0%	21.0	8.92	8.03
Dredge Boat Canal	90.0%	21.0	8.92	8.03
Lac des Allemands	90.0%	21.0	8.92	8.03

Summer Projection run:
Manmade percent reduction = 100%
Background percent reduction = 46%

	% sat for proj.	Proj. temp (C)	DO at 100% sat. (mg/L)	Proj. input DO (mg/L)
Baker Canal East	94.6%	29.5	7.62	7.21
Bayou Verret	94.6%	29.5	7.62	7.21
Western St James Canal	94.6%	29.5	7.62	7.21
Eastern St James Canal	94.6%	29.5	7.62	7.21
Dredge Boat Canal	94.6%	29.5	7.62	7.21
Lac des Allemands	94.6%	29.5	7.62	7.21

Winter Projection run:
Manmade percent reduction = 98%
Background percent reduction = 0%

	% sat for proj.	Proj. temp (C)	DO at 100% sat. (mg/L)	Proj. input DO (mg/L)
Baker Canal East	88.6%	21.0	8.92	7.90
Bayou Verret	88.7%	21.0	8.92	7.91
Western St James Canal	88.9%	21.0	8.92	7.93
Eastern St James Canal	88.5%	21.0	8.92	7.89
Dredge Boat Canal	88.7%	21.0	8.92	7.91
Lac des Allemands	89.9%	21.0	8.92	8.02

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APPENDIX N

NPS Load Calculations for No-Load Runs

Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Bayou Chevreuil

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: Baker Canal East	3.10	27.13	0	0	0.000	0.000	2.75	**2.75**
Reach 2: Bayou Verret	4.00	24.38	0	0	0.000	0.000	2.20	**2.20**
Reach 3: Bayou Citamon	0.50	27.13	5	0	0.369	0.000	3.00	**3.37**
Reach 4: Bayou Citamon	6.20	21.94	5	0	0.037	0.000	3.50	**3.54**
Reach 5: Bayou Citamon	5.70	30.78	5	0	0.028	0.000	1.85	**1.88**
Reach 6: Bayou Chevreuil	6.50	25.60	150	0	0.901	0.000	2.50	**3.40**
Reach 7: Bayou Chevreuil	6.50	44.50	750	0	2.593	0.000	1.7	**4.29**
Reach 8: Bayou Chevreuil	9.80	49.07	1500	0	3.119	0.000	1.0	**4.12**

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

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

Modeled stream or water body:	Bayou Chevreuil

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: Baker Canal East	0.000	0.000	2.75	2.750	3.10	2.00	0%	2.00	27.13	29.50	100.0%	2.00	2.00	0.000	0.000	2.00	0	0	306	305.96	0	0	0	0	0	0
Reach 2: Bayou Verret	0.000	0.000	2.20	2.200	4.00	2.00	0%	2.00	24.38	29.50	100.0%	2.00	2.00	0.000	0.000	2.00	0	0	355	354.77	0	0	0	0	0	0
Reach 3: Bayou Citamon	0.369	0.000	3.00	3.369	0.50	2.00	0%	2.00	27.13	29.50	100.0%	2.00	2.00	0.219	0.000	1.78	3	0	44	46.92	0	0	0	0	0	0
Reach 4: Bayou Citamon	0.037	0.000	3.50	3.537	6.20	2.00	0%	2.00	21.94	29.50	100.0%	2.00	2.00	0.021	0.000	1.98	3	0	490	492.54	0	0	0	0	0	0
Reach 5: Bayou Citamon	0.028	0.000	1.85	1.878	5.70	2.00	0%	2.00	30.78	29.50	100.0%	1.88	1.88	0.028	0.000	1.85	5	0	590	595.39	0	0	0	0	0	0
Reach 6: Bayou Chevreuil	0.901	0.000	2.50	3.401	6.50	2.00	0%	2.00	25.60	29.50	100.0%	2.00	2.00	0.530	0.000	1.47	88	0	445	533.12	0	0	0	0	0	0
Reach 7: Bayou Chevreuil	2.593	0.000	1.70	4.293	6.50	2.00	0%	2.00	44.50	29.50	100.0%	2.00	2.00	1.208	0.000	0.79	349	0	417	766.11	0	0	0	0	0	0
Reach 8: Bayou Chevreuil	3.119	0.000	1.00	4.119	9.80	2.00	0%	2.00	49.07	29.50	100.0%	2.00	2.00	1.514	0.000	0.49	728	0	425	1152.98	0	0	0	0	0	0
Sub-Total												15.88					1177	0	3071	**4248**	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

Modeled stream or water body:	Bayou Chevreuil

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: Baker Canal East	0.000	0.000	2.75	2.750	3.10	2.00	0%	2.00	27.13	29.50	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	0	0	306	305.96
Reach 2: Bayou Verret	0.000	0.000	2.20	2.200	4.00	2.00	0%	2.00	24.38	29.50	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	0	0	355	354.77
Reach 3: Bayou Citamon	0.369	0.000	3.00	3.369	0.50	2.00	0%	2.00	27.13	29.50	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	3	0	44	46.92
Reach 4: Bayou Citamon	0.037	0.000	3.50	3.537	6.20	2.00	0%	2.00	21.94	29.50	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	3	0	490	492.54
Reach 5: Bayou Citamon	0.028	0.000	1.85	1.878	5.70	2.00	0%	2.00	30.78	29.50	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	5	0	590	595.39
Reach 6: Bayou Chevreuil	0.901	0.000	2.50	3.401	6.50	2.00	0%	2.00	25.60	29.50	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	88	0	445	533.12
Reach 7: Bayou Chevreuil	2.593	0.000	1.70	4.293	6.50	2.00	0%	2.00	44.50	29.50	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	349	0	417	766.11
Reach 8: Bayou Chevreuil	3.119	0.000	1.00	4.119	9.80	2.00	0%	2.00	49.07	29.50	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	728	0	425	1152.98
Sub-Total																0	0	0	**0**	1177	0	3071	**4248**

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 for no man made loads:

Bayou Chevreuil

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**
Baker Canal East	0.003	10.0	8.4	2.60	2.18	4.90	4.10	0%	1.27	1.06	100%	1.27	1.06	1.27	1.06	4.90	4.10	**0.00**	**2.33**
Bayou Verret	0.003	21.0	4.9	5.44	1.27	7.30	1.70	0%	1.89	0.44	100%	1.89	0.44	1.89	0.44	7.30	1.70	**0.00**	**2.33**
Middle Saint James	0.003	9.4	2.9	2.43	0.74	6.89	2.11	0%	1.79	0.55	100%	1.79	0.55	1.79	0.55	6.89	2.11	**0.00**	**2.33**
Grand Bayou																			
Upper Saint James	0.003	12.0	5.6	3.10	1.46	6.12	2.88	0%	1.59	0.75	100%	1.59	0.75	1.59	0.75	6.12	2.88	**0.00**	**2.33**
Dredge Boat Canal	0.003	10.1	4.2	2.63	1.09	6.35	2.65	0%	1.65	0.69	100%	1.65	0.69	1.65	0.69	6.35	2.65	**0.00**	**2.33**
LDA Boundary	1.00E-09	14.3	4.3	0.00	0.00	6.92	2.08	0%	0.00	0.00	100%	0.00	0.00	0.00	0.00	6.92	2.08	**0.00**	**0.00**
SUB-TOTAL TMDL LOADING				**16**	**7**				**8**	**3**		**8**	**3**	**8**	**3**			**0**	**12**

Notes: 1. Ratio of UCBOD to UNBOD for background concentrations was assumed to be the same as for the calibration values.
2. Sum of background concentrations of UCBOD and UNBOD was assumed to be 9 mg/L based on reference stream data (see explanation in text of report).

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

EXPLICIT MARGINS:

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

Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Bayou Chevreuil

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: Baker Canal East	3.10	27.13	0	0	0.000	0.000	2.75	**2.75**
Reach 2: Bayou Verret	4.00	24.38	0	0	0.000	0.000	2.20	**2.20**
Reach 3: Bayou Citamon	0.50	27.13	5	0	0.369	0.000	3.00	**3.37**
Reach 4: Bayou Citamon	6.20	21.94	5	0	0.037	0.000	3.50	**3.54**
Reach 5: Bayou Citamon	5.70	30.78	5	0	0.028	0.000	1.85	**1.88**
Reach 6: Bayou Chevreuil	6.50	25.60	150	0	0.901	0.000	2.50	**3.40**
Reach 7: Bayou Chevreuil	6.50	44.50	750	0	2.593	0.000	1.7	**4.29**
Reach 8: Bayou Chevreuil	9.80	49.07	1500	0	3.119	0.000	1.0	**4.12**

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

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

Modeled stream or water body:	Bayou Chevreuil

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: Baker Canal East	0.000	0.000	2.75	2.750	3.10	2.00	0%	2.00	27.13	21.00	100.0%	2.00	2.00	0.000	0.000	2.00	0	0	179	179.14	0	0	0	0	0	0
Reach 2: Bayou Verret	0.000	0.000	2.20	2.200	4.00	2.00	0%	2.00	24.38	21.00	100.0%	2.00	2.00	0.000	0.000	2.00	0	0	208	207.72	0	0	0	0	0	0
Reach 3: Bayou Citamon	0.369	0.000	3.00	3.369	0.50	2.00	0%	2.00	27.13	21.00	100.0%	2.00	2.00	0.219	0.000	1.78	3	0	26	28.70	0	0	0	0	0	0
Reach 4: Bayou Citamon	0.037	0.000	3.50	3.537	6.20	2.00	0%	2.00	21.94	21.00	100.0%	2.00	2.00	0.021	0.000	1.98	3	0	287	289.56	0	0	0	0	0	0
Reach 5: Bayou Citamon	0.028	0.000	1.85	1.878	5.70	2.00	0%	2.00	30.78	21.00	100.0%	1.88	1.88	0.028	0.000	1.85	5	0	346	350.67	0	0	0	0	0	0
Reach 6: Bayou Chevreuil	0.901	0.000	2.50	3.401	6.50	2.00	0%	2.00	25.60	21.00	100.0%	2.00	2.00	0.530	0.000	1.47	88	0	261	348.70	0	0	0	0	0	0
Reach 7: Bayou Chevreuil	2.593	0.000	1.70	4.293	6.50	2.00	0%	2.00	44.50	21.00	100.0%	2.00	2.00	1.208	0.000	0.79	349	0	244	593.39	0	0	0	0	0	0
Reach 8: Bayou Chevreuil	3.119	0.000	1.00	4.119	9.80	2.00	0%	2.00	49.07	21.00	100.0%	2.00	2.00	1.514	0.000	0.49	728	0	249	976.95	0	0	0	0	0	0
Sub-Total												15.88					1177	0	1798	**2975**	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%**

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

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

Modeled stream or water body:	Bayou Chevreuil

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: Baker Canal East	0.000	0.000	2.75	2.750	3.10	2.00	0%	2.00	27.13	21.00	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	0	0	179	179.14
Reach 2: Bayou Verret	0.000	0.000	2.20	2.200	4.00	2.00	0%	2.00	24.38	21.00	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	0	0	208	207.72
Reach 3: Bayou Citamon	0.369	0.000	3.00	3.369	0.50	2.00	0%	2.00	27.13	21.00	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	3	0	26	28.70
Reach 4: Bayou Citamon	0.037	0.000	3.50	3.537	6.20	2.00	0%	2.00	21.94	21.00	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	3	0	287	289.56
Reach 5: Bayou Citamon	0.028	0.000	1.85	1.878	5.70	2.00	0%	2.00	30.78	21.00	100.0%	1.88	0.00	0.000	0.000	0.00	0	0	0	0.00	5	0	346	350.67
Reach 6: Bayou Chevreuil	0.901	0.000	2.50	3.401	6.50	2.00	0%	2.00	25.60	21.00	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	88	0	261	348.70
Reach 7: Bayou Chevreuil	2.593	0.000	1.70	4.293	6.50	2.00	0%	2.00	44.50	21.00	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	349	0	244	593.39
Reach 8: Bayou Chevreuil	3.119	0.000	1.00	4.119	9.80	2.00	0%	2.00	49.07	21.00	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	728	0	249	976.95
Sub-Total												15.88					0	0	0	**0**	1177	0	1798	**2975**

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\LA-QUAL\CHEVREUIL\REVISIONS\TMDL LOAD CALC FOR CHEVRIL-NAT.XLS

Winter TMDL calculations and Projection model calculations for Headwater / Tributary no man made loads:

Bayou Chevreuil

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**
Baker Canal East	0.03	10.0	8.4	25.97	21.77	4.90	4.10	0%	12.69	10.64	100%	12.69	10.64	12.69	10.64	4.90	4.10	**0.00**	**23.33**
Bayou Verret	0.03	21.0	4.9	54.35	12.67	7.30	1.70	0%	18.92	4.41	100%	18.92	4.41	18.92	4.41	7.30	1.70	**0.00**	**23.33**
Middle Saint James	0.03	9.4	2.9	24.26	7.44	6.89	2.11	0%	17.85	5.47	100%	17.85	5.47	17.85	5.47	6.89	2.11	**0.00**	**23.33**
Grand Bayou											100%								
Upper Saint James	0.03	12.0	5.6	31.00	14.59	6.12	2.88	0%	15.86	7.47	100%	15.86	7.47	15.86	7.47	6.12	2.88	**0.00**	**23.33**
Dredge Boat Canal	0.03	10.1	4.2	26.26	10.94	6.35	2.65	0%	16.47	6.86	100%	16.47	6.86	16.47	6.86	6.35	2.65	**0.00**	**23.33**
LDA Boundary	1.00E-09	14.3	4.3	0.00	0.00	6.92	2.08	0%	0.00	0.00	100%	0.00	0.00	0.00	0.00	6.92	2.08	**0.00**	**0.00**
SUB-TOTAL TMDL LOADING				**162**	**67**				**82**	**35**		**82**	**35**	**82**	**35**			**0**	**117**

Notes: 1. Ratio of UCBOD to UNBOD for background concentrations was assumed to be the same as for the calibration values.
2. Sum of background concentrations of UCBOD and UNBOD was assumed to be 9 mg/L based on reference stream data (see explanation in text of report).

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

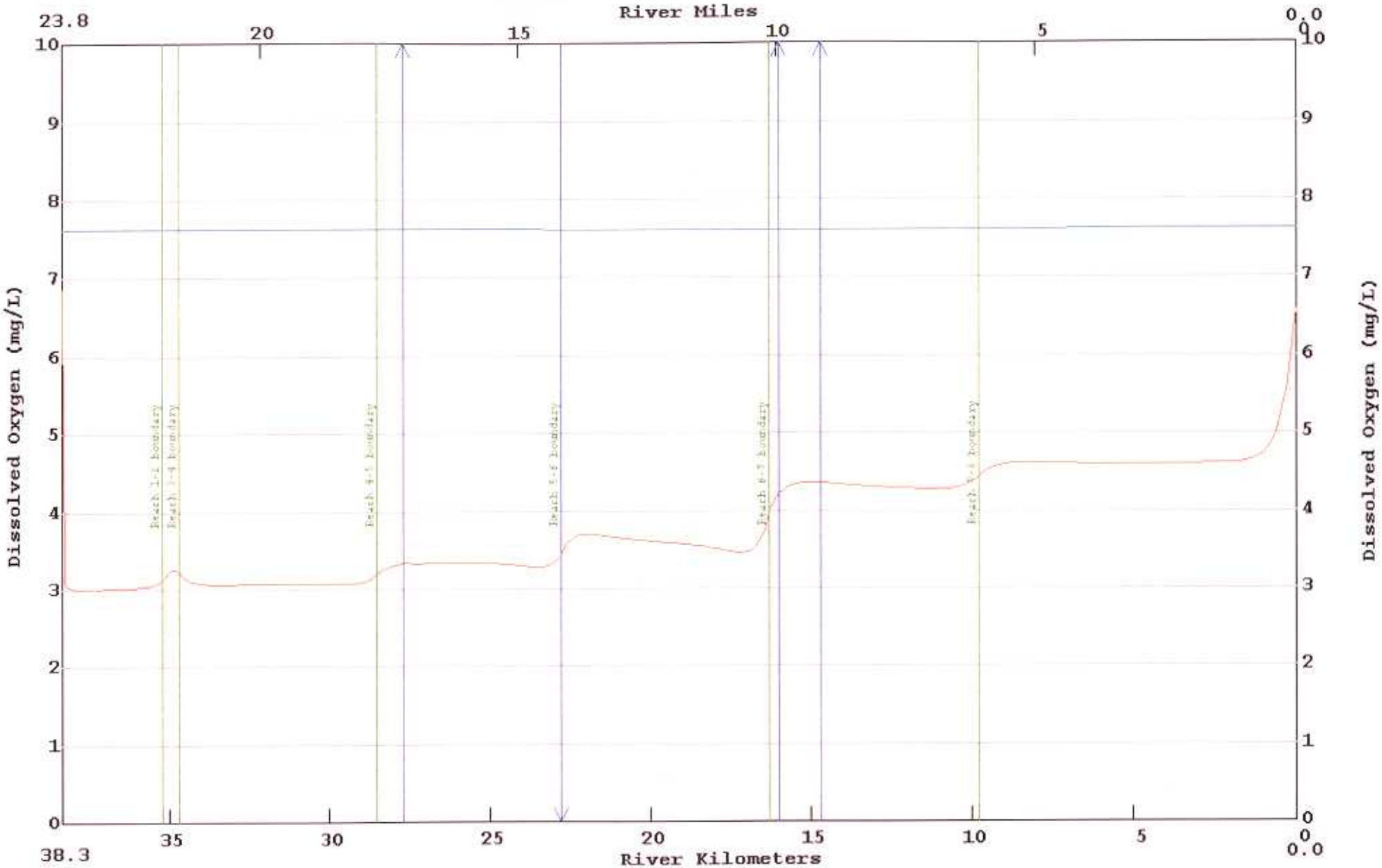
EXPLICIT MARGINS:

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

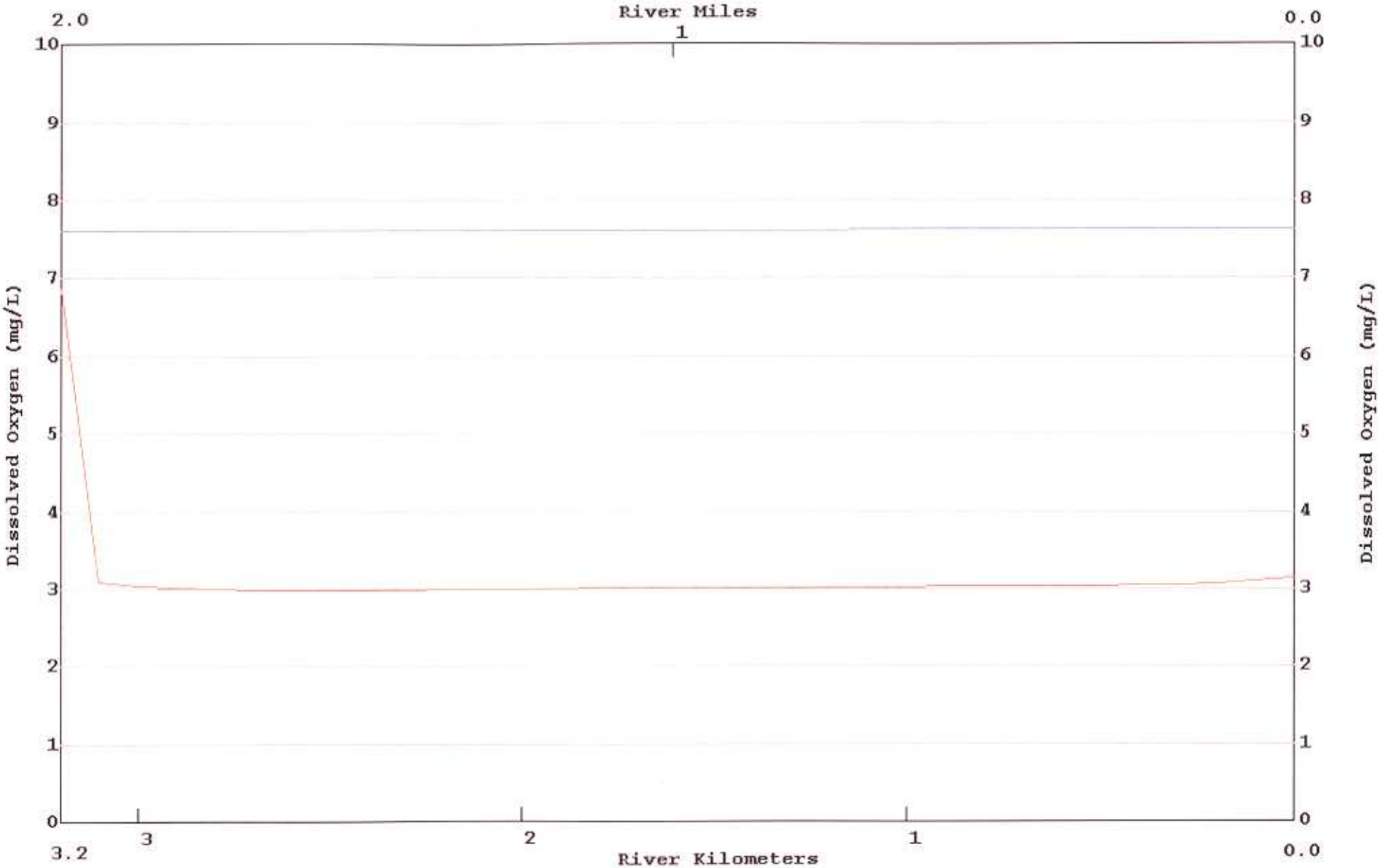
APPENDIX O

Model Output for No-Load Runs

LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\proj\summer\nat\chev_sum_nat.txt
SUMMER Projection No Man Made Loads (Natural Conditions) min= 2.99 max= 6.86
Main Stem



LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\proj\summer\nat\chev_sum_nat.txt
SUMMER Projection No Man Made Loads (Natural Conditions) min= 2.98 max= 6.86
LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101



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

Input file is R:\projects\3110-051\la-qual\chevreuil\revisions\proj\summer\nat\chev_sum_nat.txt
Output produced at 11:26 on 05/04/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
TITLE02         SUMMER Projection No Man Made Loads (Natural Conditions)
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   DISS
MODOPT06  YES   BIOC
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
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05

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

```
CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA06

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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07

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

REACH ID      1   BK  Baker Canal East               38.30  TO   35.20   0.1000     3.10      31        1      31
REACH ID      2   BV  Bayou Verret                    3.20  TO    0.00   0.1000     3.20      32       32      63
REACH ID      3   BC  Bayou Citamon                  35.20  TO   34.70   0.1000     0.50       5       64      68
REACH ID      4   BC  Bayou Citamon                  34.70  TO   28.50   0.1000     6.20      62       69     130
REACH ID      5   BC  Bayou Citamon                  28.50  TO   22.80   0.1000     5.70      57      131     187
REACH ID      6   BH  Bayou Chevreuil                22.80  TO   16.30   0.1000     6.50      65      188     252
REACH ID      7   BH  Bayou Chevreuil                16.30  TO    9.80   0.1000     6.50      65      253     317
REACH ID      8   BH  Bayou Chevreuil                 9.80  TO    0.00   0.1000     9.80      98      318     415
ENDATA08

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

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

HYDR-1        1   BK       0.000       0.000      27.130       0.000       0.000       0.940     0.00000   0.000
HYDR-1        2   BV       0.000       0.000      24.380       0.000       0.000       0.720     0.00000   0.000
HYDR-1        3   BC       0.000       0.000      27.130       0.000       0.000       0.940     0.00000   0.000
HYDR-1        4   BC       0.000       0.000      21.940       0.000       0.000       1.040     0.00000   0.000
HYDR-1        5   BC       0.000       0.000      30.780       0.000       0.000       1.290     0.00000   0.000
HYDR-1        6   BH       0.000       0.000      25.600       0.000       0.000       1.170     0.00000   0.000
HYDR-1        7   BH       0.000       0.000      44.500       0.000       0.000       1.570     0.00000   0.000
HYDR-1        8   BH       0.000       0.000      49.070       0.000       0.000       1.710     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	BK	0.00	0.870	0.000	0.000	0.000
HYDR	2	BV	0.00	0.870	0.000	0.000	0.000
HYDR	3	BC	0.00	0.870	0.000	0.000	0.000
HYDR	4	BC	0.00	0.870	0.000	0.000	0.000
HYDR	5	BC	0.00	1.120	0.000	0.000	0.000
HYDR	6	BH	0.00	1.380	0.000	0.000	0.000
HYDR	7	BH	0.00	1.630	0.000	0.000	0.000
HYDR	8	BH	0.00	1.880	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	BK	29.50	0.08	1.50	0.00	0.00	0.00	0.00	0.00
INITIAL	2	BV	29.50	0.19	2.14	0.00	0.00	0.00	0.00	0.00
INITIAL	3	BC	29.50	0.08	1.50	0.00	0.00	0.00	0.00	0.00
INITIAL	4	BC	29.50	0.11	2.20	0.00	0.00	0.00	0.00	0.00
INITIAL	5	BC	29.50	0.10	2.55	0.00	0.00	0.00	0.00	0.00
INITIAL	6	BH	29.50	0.12	2.83	0.00	0.00	0.00	0.00	0.00
INITIAL	7	BH	29.50	0.12	2.14	0.00	0.00	0.00	0.00	0.00
INITIAL	8	BH	29.50	0.12	2.70	0.00	0.00	0.00	0.00	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	BK	15 LOUISIANA	0.000	0.000	0.000	2.000	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	BV	15 LOUISIANA	0.000	0.000	0.000	2.000	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	BC	15 LOUISIANA	0.000	0.000	0.000	1.780	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	BC	15 LOUISIANA	0.000	0.000	0.000	1.980	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	BC	15 LOUISIANA	0.000	0.000	0.000	1.850	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	BH	15 LOUISIANA	0.000	0.000	0.000	1.470	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	BH	15 LOUISIANA	0.000	0.000	0.000	0.790	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	BH	15 LOUISIANA	0.000	0.000	0.000	0.490	0.070	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    ALGAE:     ALGAE    ALG CONV     ALGAE     ALGAE     MACRO     MACRO
                                DEPTH     CHL A      SETT     TO SOD       GROW      RESP      GROW      RESP

ENDATA14

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

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

COEF-4           1   BK       0.000     0.110     0.000     0.000
COEF-4           2   BV       0.000     0.110     0.000     0.000
COEF-4           3   BC       0.000     0.110     0.000     0.000
COEF-4           4   BC       0.000     0.190     0.000     0.000
COEF-4           5   BC       0.000     0.190     0.000     0.000
COEF-4           6   BH       0.000     0.190     0.000     0.000
COEF-4           7   BH       0.000     0.280     0.000     0.000
COEF-4           8   BH       0.000     0.280     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   BK        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         2   BV        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         3   BC        3.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         4   BC        3.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         5   BC        5.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         6   BH       88.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         7   BH      349.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         8   BH      728.00      0.00      0.00      0.00      0.00      0.00
ENDATA19

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

CARD TYPE	ELEMENT	NAME	UNIT	FLOW m³/s	FLOW cfs	TEMP deg C	SALIN ppt	CM-I mg/L	CM-II umhos
HDWTR-1	1	Baker Canal East	0	0.00300	0.106	29.50	0.07	9.300	172.000
HDWTR-1	32	Bayou Verret	0	0.00300	0.106	29.50	0.25	64.900	502.400

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-2	1	Baker Canal East	6.86	4.90	0.00	0.00	0.00	0.00
HDWTR-2	32	Bayou Verret	6.86	7.30	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-3	1	Baker Canal East	0.00	0.00	0.00	4.10
HDWTR-3	32	Bayou Verret	0.00	0.00	0.00	1.70

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME
JUNCTION	64	31	35.20	Bayou Verret

ENDATA23

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

CARD TYPE	ELEMENT	RKILO	NAME	FLOW m³/s	FLOW cfs	FLOW MGD	TEMP deg C	SALIN ppt	CM-I mg/L	CM-II umhos
WSTLD-1	138	27.80	Middle Saint James	0.00300	0.10593	0.068	25.64	0.11	29.100	230.600
WSTLD-1	187	22.90	Grand Bayou	-0.00300	-0.10593	-0.068	0.00	0.00	0.000	0.000
WSTLD-1	255	16.10	Upper Saint James	0.00300	0.10593	0.068	26.07	0.13	31.700	272.600
WSTLD-1	268	14.80	Dredge Boat Canal	0.00300	0.10593	0.068	26.25	0.11	27.000	230.900

ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE	ELEMENT	NAME	DO mg/L	BOD mg/L	% BOD RMVL	ORG-N mg/L	NH3-N mg/L	% NITRIF	NO3-N mg/L	BOD#2 mg/L
WSTLD-2	138	Middle Saint James	6.86	6.89	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	187	Grand Bayou	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	255	Upper Saint James	6.86	6.12	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	268	Dredge Boat Canal	6.86	6.35	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 mg/L	CHL A mg/L	COLI mg/L	NCM mg/L
WSTLD-3	138	Middle Saint James	0.00	0.00	0.00	2.11
WSTLD-3	187	Grand Bayou	0.00	0.00	0.00	0.00
WSTLD-3	255	Upper Saint James	0.00	0.00	0.00	2.88
WSTLD-3	268	Dredge Boat Canal	0.00	0.00	0.00	2.65

ENDATA26

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

CARD TYPE	CONSTITUENT		CONCENTRATION	
LOWER BC	TEMPERATURE	=	29.500	deg C
LOWER BC	SALINITY	=	0.100	ppt
LOWER BC	CONSERVATIVE MATERIAL I (Cl)	=	53.300	mg/L
LOWER BC	CONSERVATIVE MATERIAL II (Cond)	=	236.700	umhos
LOWER BC	DISSOLVED OXYGEN	=	6.860	mg/L
LOWER BC	BIOCHEMICAL OXYGEN DEMAND	=	6.920	mg/L
LOWER BC	CHLOROPHYLL A	=	0.000	µg/L
LOWER BC	NONCONSERVATIVE MATERIAL (NBOD)	=	2.080	mg/L

ENDATA27

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

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

ENDATA28

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

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

ENDATA29

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

NUMBER OF PLOTS = 3
NUMBER OF REACHES IN PLOT 1 = 7
PLOT RCH 1 3 4 5 6 7 8
NUMBER OF REACHES IN PLOT 2 = 1
PLOT RCH 2

```
NUMBER OF REACHES IN PLOT 3 =   7
PLOT RCH  1  3  4  5  6  7  8
ENDATA30

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


OVERLAY 1 CHEV_PROJ.OVL                    Main Stem
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  26 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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CONDENSED CAPSULE SUMMARY FOR Baker Canal East

DIST km	FLOW m^3/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 $g/m^2/d$
HDWTR	0.00300	29.50	0.07	6.86	4.90	0.00	0.00	0.00	0.00							
38.20	0.00300	29.50	0.08	3.07	0.44	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
38.10	0.00300	29.50	0.08	3.03	0.39	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
38.00	0.00300	29.50	0.08	3.01	0.34	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
37.90	0.00300	29.50	0.08	3.00	0.30	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
37.80	0.00300	29.50	0.08	3.00	0.27	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
37.70	0.00300	29.50	0.08	2.99	0.24	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
37.60	0.00300	29.50	0.08	2.99	0.21	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
37.50	0.00300	29.50	0.08	3.00	0.19	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
37.40	0.00300	29.50	0.08	3.00	0.17	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
37.30	0.00300	29.50	0.08	3.00	0.15	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
37.20	0.00300	29.50	0.08	3.01	0.14	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
37.10	0.00300	29.50	0.08	3.01	0.13	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
37.00	0.00300	29.50	0.08	3.01	0.12	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
36.90	0.00300	29.50	0.08	3.01	0.11	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
36.80	0.00300	29.50	0.08	3.02	0.10	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
36.70	0.00300	29.50	0.08	3.02	0.10	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
36.60	0.00300	29.50	0.08	3.02	0.10	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
36.50	0.00300	29.50	0.08	3.02	0.10	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
36.40	0.00300	29.50	0.08	3.02	0.10	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
36.30	0.00300	29.50	0.08	3.02	0.10	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
36.20	0.00300	29.50	0.08	3.02	0.11	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
36.10	0.00300	29.50	0.08	3.02	0.11	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
36.00	0.00300	29.50	0.08	3.03	0.12	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
35.90	0.00300	29.50	0.08	3.03	0.14	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
35.80	0.00300	29.50	0.08	3.03	0.15	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
35.70	0.00300	29.50	0.08	3.03	0.17	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
35.60	0.00300	29.50	0.08	3.04	0.19	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63

35.50	0.00300	29.50	0.08	3.05	0.21	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
35.40	0.00300	29.50	0.08	3.07	0.24	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
35.30	0.00300	29.50	0.08	3.09	0.28	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
35.20	0.00300	29.50	0.08	3.12	0.32	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	3.63
35.10	0.00600	29.50	0.08	3.17	0.36	0.00	0.00	0.00	0.00	0.85	0.14	0.00	0.00	0.00	0.00	3.24
35.00	0.00600	29.50	0.09	3.22	0.42	0.00	0.00	0.00	0.00	0.85	0.14	0.00	0.00	0.00	0.00	3.24
34.90	0.00600	29.50	0.10	3.25	0.45	0.00	0.00	0.00	0.00	0.85	0.14	0.00	0.00	0.00	0.00	3.24
34.80	0.00600	29.50	0.10	3.26	0.46	0.00	0.00	0.00	0.00	0.85	0.14	0.00	0.00	0.00	0.00	3.24
34.70	0.00600	29.50	0.11	3.23	0.45	0.00	0.00	0.00	0.00	0.85	0.14	0.00	0.00	0.00	0.00	3.24
34.60	0.00600	29.50	0.11	3.18	0.42	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
34.50	0.00600	29.50	0.11	3.14	0.38	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
34.40	0.00600	29.50	0.11	3.11	0.35	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
34.30	0.00600	29.50	0.11	3.10	0.33	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
34.20	0.00600	29.50	0.11	3.08	0.30	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
34.10	0.00600	29.50	0.11	3.07	0.28	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
34.00	0.00600	29.50	0.11	3.07	0.27	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
33.90	0.00600	29.50	0.11	3.06	0.25	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
33.80	0.00600	29.50	0.11	3.06	0.24	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
33.70	0.00600	29.50	0.11	3.06	0.22	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
33.60	0.00600	29.50	0.11	3.06	0.21	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
33.50	0.00600	29.50	0.11	3.06	0.21	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
33.40	0.00600	29.50	0.11	3.06	0.20	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
33.30	0.00600	29.50	0.11	3.06	0.19	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
33.20	0.00600	29.50	0.11	3.06	0.18	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
33.10	0.00600	29.50	0.11	3.06	0.18	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
33.00	0.00600	29.50	0.11	3.06	0.17	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
32.90	0.00600	29.50	0.11	3.06	0.17	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
32.80	0.00600	29.50	0.11	3.06	0.16	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
32.70	0.00600	29.50	0.11	3.06	0.16	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
32.60	0.00600	29.50	0.11	3.06	0.16	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
32.50	0.00600	29.50	0.11	3.06	0.16	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
32.40	0.00600	29.50	0.11	3.07	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
32.30	0.00600	29.50	0.11	3.07	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
32.20	0.00600	29.50	0.11	3.07	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
32.10	0.00600	29.50	0.11	3.07	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
32.00	0.00600	29.50	0.11	3.07	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
31.90	0.00600	29.50	0.11	3.07	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
31.80	0.00600	29.50	0.11	3.07	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
31.70	0.00600	29.50	0.11	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
31.60	0.00600	29.50	0.11	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
31.50	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
31.40	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
31.30	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
31.20	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
31.10	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
31.00	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
30.90	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
30.80	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
30.70	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
30.60	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
30.50	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
30.40	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
30.30	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
30.20	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
30.10	0.00600	29.50	0.10	3.07	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
30.00	0.00600	29.50	0.10	3.07	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60

29.90	0.00600	29.50	0.10	3.07	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
29.80	0.00600	29.50	0.10	3.07	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
29.70	0.00600	29.50	0.10	3.07	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
29.60	0.00600	29.50	0.10	3.07	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
29.50	0.00600	29.50	0.10	3.07	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
29.40	0.00600	29.50	0.10	3.07	0.16	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
29.30	0.00600	29.50	0.10	3.07	0.16	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
29.20	0.00600	29.50	0.10	3.08	0.17	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
29.10	0.00600	29.50	0.10	3.08	0.17	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
29.00	0.00600	29.50	0.10	3.09	0.18	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
28.90	0.00600	29.50	0.10	3.10	0.18	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
28.80	0.00600	29.50	0.10	3.11	0.19	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
28.70	0.00600	29.50	0.10	3.13	0.20	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
28.60	0.00600	29.50	0.10	3.16	0.21	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
28.50	0.00600	29.50	0.10	3.20	0.22	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	3.60
28.40	0.00600	29.50	0.10	3.23	0.23	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
28.30	0.00600	29.50	0.10	3.25	0.24	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
28.20	0.00600	29.50	0.10	3.27	0.25	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
28.10	0.00600	29.50	0.10	3.28	0.26	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
28.00	0.00600	29.50	0.10	3.30	0.27	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
27.90	0.00600	29.50	0.10	3.31	0.29	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
27.80	0.00600	29.50	0.10	3.32	0.31	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
27.70	0.00900	29.50	0.10	3.34	0.33	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
27.60	0.00900	29.50	0.10	3.33	0.31	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
27.50	0.00900	29.50	0.10	3.33	0.29	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
27.40	0.00900	29.50	0.10	3.33	0.27	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
27.30	0.00900	29.50	0.10	3.33	0.26	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
27.20	0.00900	29.50	0.10	3.33	0.25	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
27.10	0.00900	29.50	0.10	3.33	0.24	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
27.00	0.00900	29.50	0.11	3.33	0.23	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
26.90	0.00900	29.50	0.11	3.33	0.22	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
26.80	0.00900	29.50	0.11	3.33	0.21	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
26.70	0.00900	29.50	0.11	3.33	0.21	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
26.60	0.00900	29.50	0.11	3.34	0.20	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
26.50	0.00900	29.50	0.11	3.34	0.20	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
26.40	0.00900	29.50	0.11	3.34	0.19	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
26.30	0.00900	29.50	0.11	3.34	0.19	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
26.20	0.00900	29.50	0.11	3.34	0.19	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
26.10	0.00900	29.50	0.11	3.34	0.18	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
26.00	0.00900	29.50	0.11	3.34	0.18	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
25.90	0.00900	29.50	0.11	3.34	0.18	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
25.80	0.00900	29.50	0.11	3.34	0.18	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
25.70	0.00900	29.50	0.11	3.34	0.18	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
25.60	0.00900	29.50	0.11	3.34	0.18	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
25.50	0.00900	29.50	0.11	3.34	0.18	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
25.40	0.00900	29.50	0.11	3.34	0.19	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
25.30	0.00900	29.50	0.11	3.34	0.19	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
25.20	0.00900	29.50	0.11	3.34	0.19	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
25.10	0.00900	29.50	0.11	3.34	0.20	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
25.00	0.00900	29.50	0.11	3.33	0.21	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
24.90	0.00900	29.50	0.11	3.33	0.21	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
24.80	0.00900	29.50	0.11	3.33	0.22	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
24.70	0.00900	29.50	0.11	3.33	0.23	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
24.60	0.00900	29.50	0.11	3.33	0.24	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
24.50	0.00900	29.50	0.11	3.32	0.26	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
24.40	0.00900	29.50	0.11	3.32	0.27	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37

24.30	0.00900	29.50	0.11	3.31	0.29	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
24.20	0.00900	29.50	0.12	3.31	0.31	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
24.10	0.00900	29.50	0.12	3.31	0.33	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
24.00	0.00900	29.50	0.12	3.30	0.36	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
23.90	0.00900	29.50	0.12	3.30	0.39	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
23.80	0.00900	29.50	0.12	3.29	0.42	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
23.70	0.00900	29.50	0.12	3.29	0.47	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
23.60	0.00900	29.50	0.12	3.29	0.51	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
23.50	0.00900	29.50	0.12	3.28	0.57	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
23.40	0.00900	29.50	0.12	3.29	0.63	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
23.30	0.00900	29.50	0.12	3.29	0.70	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
23.20	0.00900	29.50	0.12	3.30	0.78	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
23.10	0.00900	29.50	0.12	3.31	0.87	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
23.00	0.00900	29.50	0.12	3.34	0.98	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
22.90	0.00900	29.50	0.12	3.38	1.10	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
22.80	0.00600	29.50	0.12	3.43	1.24	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	3.37
22.70	0.00600	29.50	0.12	3.52	1.40	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
22.60	0.00600	29.50	0.12	3.58	1.55	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
22.50	0.00600	29.50	0.12	3.62	1.69	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
22.40	0.00600	29.50	0.12	3.65	1.82	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
22.30	0.00600	29.50	0.12	3.68	1.93	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
22.20	0.00600	29.50	0.12	3.69	2.03	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
22.10	0.00600	29.50	0.12	3.70	2.12	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
22.00	0.00600	29.50	0.12	3.70	2.20	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
21.90	0.00600	29.50	0.12	3.70	2.28	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
21.80	0.00600	29.50	0.12	3.70	2.34	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
21.70	0.00600	29.50	0.12	3.69	2.40	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
21.60	0.00600	29.50	0.12	3.69	2.45	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
21.50	0.00600	29.50	0.12	3.68	2.50	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
21.40	0.00600	29.50	0.12	3.68	2.55	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
21.30	0.00600	29.50	0.12	3.67	2.58	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
21.20	0.00600	29.50	0.12	3.66	2.62	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
21.10	0.00600	29.50	0.12	3.66	2.65	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
21.00	0.00600	29.50	0.12	3.65	2.68	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
20.90	0.00600	29.50	0.12	3.65	2.71	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
20.80	0.00600	29.50	0.12	3.64	2.73	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
20.70	0.00600	29.50	0.12	3.64	2.75	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
20.60	0.00600	29.50	0.12	3.63	2.77	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
20.50	0.00600	29.50	0.12	3.63	2.79	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
20.40	0.00600	29.50	0.12	3.62	2.81	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
20.30	0.00600	29.50	0.12	3.62	2.82	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
20.20	0.00600	29.50	0.12	3.61	2.84	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
20.10	0.00600	29.50	0.12	3.61	2.85	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
20.00	0.00600	29.50	0.12	3.61	2.87	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
19.90	0.00600	29.50	0.12	3.60	2.88	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
19.80	0.00600	29.50	0.12	3.60	2.89	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
19.70	0.00600	29.50	0.12	3.60	2.90	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
19.60	0.00600	29.50	0.12	3.59	2.91	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
19.50	0.00600	29.50	0.12	3.59	2.93	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
19.40	0.00600	29.50	0.12	3.59	2.94	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
19.30	0.00600	29.50	0.12	3.58	2.95	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
19.20	0.00600	29.50	0.12	3.58	2.96	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
19.10	0.00600	29.50	0.12	3.58	2.98	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
19.00	0.00600	29.50	0.12	3.57	2.99	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
18.90	0.00600	29.50	0.12	3.57	3.01	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
18.80	0.00600	29.50	0.12	3.56	3.03	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67

18.70	0.00600	29.50	0.12	3.56	3.04	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
18.60	0.00600	29.50	0.12	3.55	3.06	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
18.50	0.00600	29.50	0.12	3.55	3.09	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
18.40	0.00600	29.50	0.12	3.54	3.11	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
18.30	0.00600	29.50	0.12	3.54	3.14	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
18.20	0.00600	29.50	0.12	3.53	3.17	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
18.10	0.00600	29.50	0.12	3.52	3.21	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
18.00	0.00600	29.50	0.12	3.51	3.25	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
17.90	0.00600	29.50	0.12	3.51	3.29	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
17.80	0.00600	29.50	0.12	3.50	3.34	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
17.70	0.00600	29.50	0.12	3.49	3.40	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
17.60	0.00600	29.50	0.12	3.48	3.46	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
17.50	0.00600	29.50	0.12	3.47	3.53	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
17.40	0.00600	29.50	0.12	3.47	3.61	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
17.30	0.00600	29.50	0.12	3.46	3.70	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
17.20	0.00600	29.50	0.12	3.46	3.80	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
17.10	0.00600	29.50	0.12	3.46	3.91	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
17.00	0.00600	29.50	0.12	3.47	4.04	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
16.90	0.00600	29.50	0.12	3.49	4.18	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
16.80	0.00600	29.50	0.12	3.51	4.35	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
16.70	0.00600	29.50	0.12	3.55	4.53	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
16.60	0.00600	29.50	0.12	3.61	4.74	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
16.50	0.00600	29.50	0.12	3.70	4.97	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
16.40	0.00600	29.50	0.12	3.82	5.23	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
16.30	0.00600	29.50	0.12	3.99	5.53	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	2.67
16.20	0.00600	29.50	0.12	4.11	5.71	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
16.10	0.00600	29.50	0.12	4.17	5.82	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
16.00	0.00900	29.50	0.12	4.23	5.92	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
15.90	0.00900	29.50	0.12	4.26	6.02	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
15.80	0.00900	29.50	0.12	4.29	6.11	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
15.70	0.00900	29.50	0.12	4.32	6.18	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
15.60	0.00900	29.50	0.12	4.33	6.26	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
15.50	0.00900	29.50	0.12	4.34	6.32	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
15.40	0.00900	29.50	0.12	4.35	6.39	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
15.30	0.00900	29.50	0.12	4.36	6.44	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
15.20	0.00900	29.50	0.12	4.36	6.50	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
15.10	0.00900	29.50	0.12	4.37	6.54	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
15.00	0.00900	29.50	0.12	4.37	6.59	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
14.90	0.00900	29.50	0.12	4.37	6.63	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
14.80	0.00900	29.50	0.12	4.37	6.67	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
14.70	0.01200	29.50	0.12	4.37	6.70	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
14.60	0.01200	29.50	0.12	4.36	6.73	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
14.50	0.01200	29.50	0.12	4.36	6.76	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
14.40	0.01200	29.50	0.12	4.36	6.79	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
14.30	0.01200	29.50	0.12	4.35	6.82	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
14.20	0.01200	29.50	0.12	4.35	6.84	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
14.10	0.01200	29.50	0.12	4.34	6.86	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
14.00	0.01200	29.50	0.12	4.34	6.88	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
13.90	0.01200	29.50	0.12	4.34	6.90	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
13.80	0.01200	29.50	0.12	4.33	6.92	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
13.70	0.01200	29.50	0.12	4.33	6.93	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
13.60	0.01200	29.50	0.12	4.33	6.95	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
13.50	0.01200	29.50	0.12	4.32	6.96	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
13.40	0.01200	29.50	0.12	4.32	6.98	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
13.30	0.01200	29.50	0.12	4.32	6.99	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
13.20	0.01200	29.50	0.12	4.31	7.00	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44

13.10	0.01200	29.50	0.12	4.31	7.01	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
13.00	0.01200	29.50	0.12	4.31	7.03	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
12.90	0.01200	29.50	0.12	4.31	7.04	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
12.80	0.01200	29.50	0.12	4.31	7.05	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
12.70	0.01200	29.50	0.12	4.30	7.06	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
12.60	0.01200	29.50	0.12	4.30	7.07	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
12.50	0.01200	29.50	0.12	4.30	7.08	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
12.40	0.01200	29.50	0.12	4.30	7.09	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
12.30	0.01200	29.50	0.12	4.29	7.10	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
12.20	0.01200	29.50	0.12	4.29	7.10	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
12.10	0.01200	29.50	0.12	4.29	7.11	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
12.00	0.01200	29.50	0.12	4.29	7.12	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
11.90	0.01200	29.50	0.12	4.29	7.14	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
11.80	0.01200	29.50	0.12	4.28	7.15	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
11.70	0.01200	29.50	0.12	4.28	7.16	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
11.60	0.01200	29.50	0.12	4.28	7.17	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
11.50	0.01200	29.50	0.12	4.28	7.18	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
11.40	0.01200	29.50	0.12	4.28	7.20	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
11.30	0.01200	29.50	0.12	4.28	7.21	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
11.20	0.01200	29.50	0.12	4.28	7.22	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
11.10	0.01200	29.50	0.12	4.28	7.24	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
11.00	0.01200	29.50	0.12	4.28	7.26	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
10.90	0.01200	29.50	0.12	4.28	7.28	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
10.80	0.01200	29.50	0.12	4.28	7.30	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
10.70	0.01200	29.50	0.12	4.28	7.32	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
10.60	0.01200	29.50	0.12	4.29	7.35	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
10.50	0.01200	29.50	0.12	4.29	7.37	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
10.40	0.01200	29.50	0.12	4.30	7.40	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
10.30	0.01200	29.50	0.12	4.31	7.43	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
10.20	0.01200	29.50	0.12	4.33	7.47	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
10.10	0.01200	29.50	0.12	4.35	7.51	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
10.00	0.01200	29.50	0.12	4.37	7.55	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
9.90	0.01200	29.50	0.12	4.40	7.59	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
9.80	0.01200	29.50	0.12	4.44	7.64	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	1.44
9.70	0.01200	29.50	0.12	4.48	7.69	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
9.60	0.01200	29.50	0.12	4.51	7.72	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
9.50	0.01200	29.50	0.12	4.53	7.76	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
9.40	0.01200	29.50	0.12	4.55	7.79	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
9.30	0.01200	29.50	0.12	4.56	7.82	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
9.20	0.01200	29.50	0.12	4.58	7.85	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
9.10	0.01200	29.50	0.12	4.59	7.87	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
9.00	0.01200	29.50	0.12	4.59	7.89	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
8.90	0.01200	29.50	0.12	4.60	7.91	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
8.80	0.01200	29.50	0.12	4.61	7.93	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
8.70	0.01200	29.50	0.12	4.61	7.95	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
8.60	0.01200	29.50	0.12	4.61	7.97	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
8.50	0.01200	29.50	0.12	4.61	7.98	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
8.40	0.01200	29.50	0.12	4.61	8.00	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
8.30	0.01200	29.50	0.12	4.61	8.01	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
8.20	0.01200	29.50	0.12	4.62	8.02	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
8.10	0.01200	29.50	0.12	4.62	8.03	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
8.00	0.01200	29.50	0.12	4.61	8.04	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
7.90	0.01200	29.50	0.12	4.61	8.05	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
7.80	0.01200	29.50	0.12	4.61	8.06	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
7.70	0.01200	29.50	0.12	4.61	8.07	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
7.60	0.01200	29.50	0.12	4.61	8.08	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89

7.50	0.01200	29.50	0.12	4.61	8.09	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
7.40	0.01200	29.50	0.12	4.61	8.09	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
7.30	0.01200	29.50	0.12	4.61	8.10	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
7.20	0.01200	29.50	0.12	4.61	8.10	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
7.10	0.01200	29.50	0.12	4.61	8.11	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
7.00	0.01200	29.50	0.12	4.61	8.11	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
6.90	0.01200	29.50	0.12	4.61	8.12	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
6.80	0.01200	29.50	0.12	4.61	8.12	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
6.70	0.01200	29.50	0.12	4.60	8.12	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
6.60	0.01200	29.50	0.12	4.60	8.13	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
6.50	0.01200	29.50	0.12	4.60	8.13	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
6.40	0.01200	29.50	0.12	4.60	8.13	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
6.30	0.01200	29.50	0.12	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
6.20	0.01200	29.50	0.12	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
6.10	0.01200	29.50	0.12	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
6.00	0.01200	29.50	0.12	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
5.90	0.01200	29.50	0.12	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
5.80	0.01200	29.50	0.11	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
5.70	0.01200	29.50	0.11	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
5.60	0.01200	29.50	0.11	4.60	8.15	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
5.50	0.01200	29.50	0.11	4.60	8.15	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
5.40	0.01200	29.50	0.11	4.60	8.15	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
5.30	0.01200	29.50	0.11	4.60	8.15	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
5.20	0.01200	29.50	0.11	4.60	8.15	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
5.10	0.01200	29.50	0.11	4.60	8.15	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
5.00	0.01200	29.50	0.11	4.60	8.15	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
4.90	0.01200	29.50	0.11	4.60	8.15	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
4.80	0.01200	29.50	0.11	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
4.70	0.01200	29.50	0.11	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
4.60	0.01200	29.50	0.11	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
4.50	0.01200	29.50	0.11	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
4.40	0.01200	29.50	0.11	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
4.30	0.01200	29.50	0.11	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
4.20	0.01200	29.50	0.11	4.60	8.14	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
4.10	0.01200	29.50	0.11	4.60	8.13	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
4.00	0.01200	29.50	0.11	4.60	8.13	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
3.90	0.01200	29.50	0.11	4.60	8.13	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
3.80	0.01200	29.50	0.11	4.60	8.12	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
3.70	0.01200	29.50	0.11	4.60	8.12	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
3.60	0.01200	29.50	0.11	4.60	8.12	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
3.50	0.01200	29.50	0.11	4.60	8.11	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
3.40	0.01200	29.50	0.11	4.60	8.11	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
3.30	0.01200	29.50	0.11	4.60	8.10	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
3.20	0.01200	29.50	0.11	4.60	8.09	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
3.10	0.01200	29.50	0.11	4.60	8.09	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
3.00	0.01200	29.50	0.11	4.60	8.08	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
2.90	0.01200	29.50	0.11	4.60	8.07	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
2.80	0.01200	29.50	0.11	4.61	8.06	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
2.70	0.01200	29.50	0.11	4.61	8.05	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
2.60	0.01200	29.50	0.11	4.61	8.04	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
2.50	0.01200	29.50	0.11	4.61	8.03	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
2.40	0.01200	29.50	0.11	4.61	8.02	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
2.30	0.01200	29.50	0.11	4.61	8.00	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
2.20	0.01200	29.50	0.11	4.61	7.99	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
2.10	0.01200	29.50	0.11	4.61	7.97	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
2.00	0.01200	29.50	0.11	4.61	7.96	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89

1.90	0.01200	29.50	0.10	4.61	7.94	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
1.80	0.01200	29.50	0.10	4.62	7.92	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
1.70	0.01200	29.50	0.10	4.62	7.89	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
1.60	0.01200	29.50	0.10	4.63	7.87	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
1.50	0.01200	29.50	0.10	4.63	7.84	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
1.40	0.01200	29.50	0.10	4.65	7.81	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
1.30	0.01200	29.50	0.10	4.66	7.78	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
1.20	0.01200	29.50	0.10	4.68	7.74	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
1.10	0.01200	29.50	0.10	4.71	7.70	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
1.00	0.01200	29.50	0.10	4.74	7.66	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
0.90	0.01200	29.50	0.10	4.79	7.62	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
0.80	0.01200	29.50	0.10	4.85	7.57	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
0.70	0.01200	29.50	0.10	4.93	7.51	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
0.60	0.01200	29.50	0.10	5.03	7.45	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
0.50	0.01200	29.50	0.10	5.16	7.39	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
0.40	0.01200	29.50	0.10	5.32	7.32	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
0.30	0.01200	29.50	0.10	5.54	7.24	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
0.20	0.01200	29.50	0.10	5.81	7.16	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
0.10	0.01200	29.50	0.10	6.15	7.07	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89
0.00	0.01200	29.50	0.10	6.59	6.97	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.89

CONDENSED CAPSULE SUMMARY FOR Bayou Verret

DIST km	FLOW m^3/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 $g/m^2/d$
HDWTR	0.00300	29.50	0.25	6.86	7.30	0.00	0.00	0.00	0.00							
3.10	0.00300	29.50	0.19	3.08	0.92	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
3.00	0.00300	29.50	0.19	3.04	0.81	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
2.90	0.00300	29.50	0.18	3.01	0.72	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
2.80	0.00300	29.50	0.18	2.99	0.64	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
2.70	0.00300	29.50	0.18	2.99	0.56	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
2.60	0.00300	29.50	0.17	2.98	0.50	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
2.50	0.00300	29.50	0.17	2.98	0.44	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
2.40	0.00300	29.50	0.16	2.99	0.39	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
2.30	0.00300	29.50	0.16	2.99	0.35	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
2.20	0.00300	29.50	0.16	2.99	0.31	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
2.10	0.00300	29.50	0.15	3.00	0.28	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
2.00	0.00300	29.50	0.15	3.00	0.25	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
1.90	0.00300	29.50	0.15	3.01	0.22	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
1.80	0.00300	29.50	0.14	3.01	0.20	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
1.70	0.00300	29.50	0.14	3.01	0.19	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
1.60	0.00300	29.50	0.13	3.02	0.17	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
1.50	0.00300	29.50	0.13	3.02	0.16	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
1.40	0.00300	29.50	0.13	3.02	0.15	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
1.30	0.00300	29.50	0.12	3.02	0.14	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
1.20	0.00300	29.50	0.12	3.02	0.14	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
1.10	0.00300	29.50	0.12	3.03	0.14	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
1.00	0.00300	29.50	0.11	3.03	0.14	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
0.90	0.00300	29.50	0.11	3.03	0.15	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
0.80	0.00300	29.50	0.11	3.03	0.15	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
0.70	0.00300	29.50	0.10	3.03	0.16	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.64
0.60	0.00300	29.50	0.10	3.03	0.18	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.63
0.50	0.00300	29.50	0.09	3.04	0.19	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.63
0.40	0.00300	29.50	0.09	3.05	0.21	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.63
0.30	0.00300	29.50	0.09	3.06	0.24	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.63
0.20	0.00300	29.50	0.08	3.08	0.27	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.63
0.10	0.00300	29.50	0.08	3.11	0.30	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.63
0.00	0.00300	29.50	0.08	3.15	0.35	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	3.63

********** 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	0.00300	29.50	0.07	9.30	172.00	6.86	4.90	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.10

********** 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	38.30	38.20	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
2	38.20	38.10	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
3	38.10	38.00	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
4	38.00	37.90	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
5	37.90	37.80	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
6	37.80	37.70	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
7	37.70	37.60	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
8	37.60	37.50	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
9	37.50	37.40	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
10	37.40	37.30	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
11	37.30	37.20	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
12	37.20	37.10	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
13	37.10	37.00	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
14	37.00	36.90	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
15	36.90	36.80	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
16	36.80	36.70	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
17	36.70	36.60	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
18	36.60	36.50	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
19	36.50	36.40	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
20	36.40	36.30	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
21	36.30	36.20	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
22	36.20	36.10	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
23	36.10	36.00	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
24	36.00	35.90	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
25	35.90	35.80	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
26	35.80	35.70	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
27	35.70	35.60	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
28	35.60	35.50	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
29	35.50	35.40	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
30	35.40	35.30	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
31	35.30	35.20	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
TOT						305.00			79056.80	84103.00					
AVG					0.00012		0.94	27.13			25.50				
CUM						305.00									

********** 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	38.200	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
2	38.100	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
3	38.000	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
4	37.900	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
5	37.800	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
6	37.700	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
7	37.600	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
8	37.500	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
9	37.400	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
10	37.300	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
11	37.200	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
12	37.100	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
13	37.000	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
14	36.900	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
15	36.800	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
16	36.700	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
17	36.600	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
18	36.500	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
19	36.400	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
20	36.300	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
21	36.200	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
22	36.100	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
23	36.000	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
24	35.900	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
25	35.800	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
26	35.700	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
27	35.600	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
28	35.500	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
29	35.400	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
30	35.300	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
31	35.200	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
AVG 20 DEG C RATE			0.71	0.09	0.00	0.00	0.00	0.00	0.00	2.00			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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	38.200	29.50	0.08	27.44	277.68	3.07	0.44	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
2	38.100	29.50	0.08	27.68	279.11	3.03	0.39	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
3	38.000	29.50	0.08	27.93	280.56	3.01	0.34	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.21
4	37.900	29.50	0.08	28.18	282.03	3.00	0.30	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.18
5	37.800	29.50	0.08	28.44	283.51	3.00	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.16
6	37.700	29.50	0.08	28.70	285.02	2.99	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.13
7	37.600	29.50	0.08	28.96	286.55	2.99	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.11
8	37.500	29.50	0.08	29.23	288.10	3.00	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
9	37.400	29.50	0.08	29.49	289.67	3.00	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08

10	37.300	29.50	0.08	29.77	291.26	3.00	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
11	37.200	29.50	0.08	30.04	292.87	3.01	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
12	37.100	29.50	0.08	30.33	294.51	3.01	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
13	37.000	29.50	0.08	30.61	296.16	3.01	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
14	36.900	29.50	0.08	30.90	297.84	3.01	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
15	36.800	29.50	0.08	31.19	299.54	3.02	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
16	36.700	29.50	0.08	31.49	301.27	3.02	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
17	36.600	29.50	0.08	31.79	303.01	3.02	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
18	36.500	29.50	0.08	32.09	304.79	3.02	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
19	36.400	29.50	0.08	32.40	306.58	3.02	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
20	36.300	29.50	0.08	32.71	308.40	3.02	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
21	36.200	29.50	0.08	33.03	310.24	3.02	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
22	36.100	29.50	0.08	33.35	312.11	3.02	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
23	36.000	29.50	0.08	33.67	314.01	3.03	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
24	35.900	29.50	0.08	34.00	315.93	3.03	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
25	35.800	29.50	0.08	34.34	317.87	3.03	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
26	35.700	29.50	0.08	34.67	319.85	3.03	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
27	35.600	29.50	0.08	35.02	321.84	3.04	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
28	35.500	29.50	0.08	35.36	323.87	3.05	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
29	35.400	29.50	0.08	35.72	325.92	3.07	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
30	35.300	29.50	0.08	36.07	328.00	3.09	0.28	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
31	35.200	29.50	0.08	36.44	330.11	3.12	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 3 Bayou Citamon SUMMER Projection No Man Made Loads (Natural Conditions)

********** 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
64	UPR RCH	0.00300	29.50	0.08	36.44	330.11	3.12	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	TRIB	0.00300	29.50	0.08	36.98	333.34	3.15	0.35	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
64	35.20	35.10	0.00600	0.0	0.00024	4.92	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
65	35.10	35.00	0.00600	0.0	0.00024	4.92	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
66	35.00	34.90	0.00600	0.0	0.00024	4.92	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
67	34.90	34.80	0.00600	0.0	0.00024	4.92	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
68	34.80	34.70	0.00600	0.0	0.00024	4.92	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
TOT						24.60			12751.10	13565.00					
AVG					0.00024		0.94	27.13			25.50				
CUM						329.60									

********** 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
64	35.100	7.62	0.85	0.14	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
65	35.000	7.62	0.85	0.14	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
66	34.900	7.62	0.85	0.14	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
67	34.800	7.62	0.85	0.14	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
68	34.700	7.62	0.85	0.14	0.00	0.00	0.00	0.00	0.00	3.24	3.24	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
AVG 20 DEG C RATE			0.71	0.09	0.00	0.00	0.00	0.00	0.00	1.78			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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
64	35.100	29.50	0.08	36.80	332.25	3.17	0.36	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
65	35.000	29.50	0.09	36.80	332.12	3.22	0.42	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
66	34.900	29.50	0.10	36.79	331.98	3.25	0.45	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
67	34.800	29.50	0.10	36.78	331.84	3.26	0.46	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
68	34.700	29.50	0.11	36.77	331.69	3.23	0.45	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 4 Bayou Citamon SUMMER Projection No Man Made Loads (Natural Conditions)

********** 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
69	UPR RCH	0.00600	29.50	0.11	36.77	331.69	3.23	0.45	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
69	34.70	34.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
70	34.60	34.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
71	34.50	34.40	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
72	34.40	34.30	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
73	34.30	34.20	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
74	34.20	34.10	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
75	34.10	34.00	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
76	34.00	33.90	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
77	33.90	33.80	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
78	33.80	33.70	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
79	33.70	33.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
80	33.60	33.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
81	33.50	33.40	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
82	33.40	33.30	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
83	33.30	33.20	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
84	33.20	33.10	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
85	33.10	33.00	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
86	33.00	32.90	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
87	32.90	32.80	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
88	32.80	32.70	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
89	32.70	32.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
90	32.60	32.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
91	32.50	32.40	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
92	32.40	32.30	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
93	32.30	32.20	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
94	32.20	32.10	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
95	32.10	32.00	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
96	32.00	31.90	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
97	31.90	31.80	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
98	31.80	31.70	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
99	31.70	31.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
100	31.60	31.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
101	31.50	31.40	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
102	31.40	31.30	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
103	31.30	31.20	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
104	31.20	31.10	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
105	31.10	31.00	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
106	31.00	30.90	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
107	30.90	30.80	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
108	30.80	30.70	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
109	30.70	30.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
110	30.60	30.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
111	30.50	30.40	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
112	30.40	30.30	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
113	30.30	30.20	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
114	30.20	30.10	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
115	30.10	30.00	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
116	30.00	29.90	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
117	29.90	29.80	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
118	29.80	29.70	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000

119	29.70	29.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
120	29.60	29.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
121	29.50	29.40	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
122	29.40	29.30	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
123	29.30	29.20	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
124	29.20	29.10	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
125	29.10	29.00	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
126	29.00	28.90	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
127	28.90	28.80	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
128	28.80	28.70	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
129	28.70	28.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
130	28.60	28.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
TOT						272.90			141469.11	136028.00					
AVG					0.00026		1.04	21.94			22.82				
CUM						602.50									

********** 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
69	34.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
70	34.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
71	34.400	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
72	34.300	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
73	34.200	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
74	34.100	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
75	34.000	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
76	33.900	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
77	33.800	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
78	33.700	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
79	33.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
80	33.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
81	33.400	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
82	33.300	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
83	33.200	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
84	33.100	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
85	33.000	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
86	32.900	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
87	32.800	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
88	32.700	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
89	32.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
90	32.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
91	32.400	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
92	32.300	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
93	32.200	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
94	32.100	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
95	32.000	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
96	31.900	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
97	31.800	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
98	31.700	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
99	31.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
100	31.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00

101	31.400	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
102	31.300	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
103	31.200	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
104	31.100	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
105	31.000	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
106	30.900	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
107	30.800	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
108	30.700	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
109	30.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
110	30.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
111	30.400	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
112	30.300	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
113	30.200	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
114	30.100	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
115	30.000	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
116	29.900	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
117	29.800	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
118	29.700	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
119	29.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
120	29.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
121	29.400	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
122	29.300	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
123	29.200	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
124	29.100	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
125	29.000	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
126	28.900	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
127	28.800	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
128	28.700	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
129	28.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
130	28.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	3.60	3.60	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
AVG 20 DEG C RATE			0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.98			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.19	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
69	34.600	29.50	0.11	36.76	331.53	3.18	0.42	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
70	34.500	29.50	0.11	36.75	331.36	3.14	0.38	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
71	34.400	29.50	0.11	36.74	331.18	3.11	0.35	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
72	34.300	29.50	0.11	36.73	331.00	3.10	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
73	34.200	29.50	0.11	36.72	330.81	3.08	0.30	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
74	34.100	29.50	0.11	36.71	330.62	3.07	0.28	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
75	34.000	29.50	0.11	36.69	330.42	3.07	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
76	33.900	29.50	0.11	36.68	330.21	3.06	0.25	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
77	33.800	29.50	0.11	36.67	330.00	3.06	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
78	33.700	29.50	0.11	36.65	329.78	3.06	0.22	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
79	33.600	29.50	0.11	36.64	329.56	3.06	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
80	33.500	29.50	0.11	36.63	329.33	3.06	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
81	33.400	29.50	0.11	36.61	329.09	3.06	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
82	33.300	29.50	0.11	36.60	328.84	3.06	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
83	33.200	29.50	0.11	36.58	328.59	3.06	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

84	33.100	29.50	0.11	36.57	328.33	3.06	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
85	33.000	29.50	0.11	36.55	328.06	3.06	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
86	32.900	29.50	0.11	36.53	327.79	3.06	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
87	32.800	29.50	0.11	36.52	327.50	3.06	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
88	32.700	29.50	0.11	36.50	327.21	3.06	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
89	32.600	29.50	0.11	36.48	326.91	3.06	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
90	32.500	29.50	0.11	36.46	326.59	3.06	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
91	32.400	29.50	0.11	36.44	326.27	3.07	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
92	32.300	29.50	0.11	36.42	325.94	3.07	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
93	32.200	29.50	0.11	36.40	325.60	3.07	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
94	32.100	29.50	0.11	36.38	325.25	3.07	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
95	32.000	29.50	0.11	36.36	324.89	3.07	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
96	31.900	29.50	0.11	36.34	324.52	3.07	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
97	31.800	29.50	0.11	36.32	324.14	3.07	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
98	31.700	29.50	0.11	36.29	323.74	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
99	31.600	29.50	0.11	36.27	323.33	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
100	31.500	29.50	0.10	36.24	322.91	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
101	31.400	29.50	0.10	36.22	322.48	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
102	31.300	29.50	0.10	36.19	322.04	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
103	31.200	29.50	0.10	36.16	321.58	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
104	31.100	29.50	0.10	36.13	321.11	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
105	31.000	29.50	0.10	36.10	320.62	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
106	30.900	29.50	0.10	36.07	320.12	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
107	30.800	29.50	0.10	36.04	319.60	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
108	30.700	29.50	0.10	36.01	319.07	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
109	30.600	29.50	0.10	35.98	318.52	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
110	30.500	29.50	0.10	35.94	317.96	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
111	30.400	29.50	0.10	35.91	317.38	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
112	30.300	29.50	0.10	35.87	316.78	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
113	30.200	29.50	0.10	35.84	316.16	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
114	30.100	29.50	0.10	35.80	315.53	3.07	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
115	30.000	29.50	0.10	35.76	314.87	3.07	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
116	29.900	29.50	0.10	35.72	314.20	3.07	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
117	29.800	29.50	0.10	35.68	313.50	3.07	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
118	29.700	29.50	0.10	35.63	312.78	3.07	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
119	29.600	29.50	0.10	35.59	312.05	3.07	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
120	29.500	29.50	0.10	35.54	311.29	3.07	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
121	29.400	29.50	0.10	35.50	310.50	3.07	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
122	29.300	29.50	0.10	35.45	309.70	3.07	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
123	29.200	29.50	0.10	35.40	308.86	3.08	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
124	29.100	29.50	0.10	35.35	308.01	3.08	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
125	29.000	29.50	0.10	35.29	307.13	3.09	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
126	28.900	29.50	0.10	35.24	306.22	3.10	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
127	28.800	29.50	0.10	35.18	305.28	3.11	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
128	28.700	29.50	0.10	35.13	304.32	3.13	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
129	28.600	29.50	0.10	35.07	303.32	3.16	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
130	28.500	29.50	0.10	35.00	302.30	3.20	0.22	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 5 Bayou Citamon SUMMER Projection No Man Made Loads (Natural Conditions)

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

ELEM	TYPE	FLOW	TEMP	SALN	CL	COND	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NBOD

NO.			deg C	ppt	mg/L	umhos	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL	mg/L
131	UPR RCH	0.00600	29.50	0.10	35.00	302.30	3.20	0.22	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
138	WSTLD	0.00300	25.64	0.11	29.10	230.60	6.86	6.89	0.00	6.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.11
187	WSTLD	-0.00300	29.50	0.12	35.29	292.28	3.43	1.24	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
131	28.50	28.40	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
132	28.40	28.30	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
133	28.30	28.20	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
134	28.20	28.10	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
135	28.10	28.00	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
136	28.00	27.90	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
137	27.90	27.80	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
138	27.80	27.70	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
139	27.70	27.60	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
140	27.60	27.50	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
141	27.50	27.40	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
142	27.40	27.30	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
143	27.30	27.20	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
144	27.20	27.10	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
145	27.10	27.00	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
146	27.00	26.90	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
147	26.90	26.80	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
148	26.80	26.70	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
149	26.70	26.60	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
150	26.60	26.50	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
151	26.50	26.40	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
152	26.40	26.30	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
153	26.30	26.20	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
154	26.20	26.10	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
155	26.10	26.00	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
156	26.00	25.90	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
157	25.90	25.80	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
158	25.80	25.70	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
159	25.70	25.60	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
160	25.60	25.50	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
161	25.50	25.40	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
162	25.40	25.30	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
163	25.30	25.20	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
164	25.20	25.10	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
165	25.10	25.00	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
166	25.00	24.90	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
167	24.90	24.80	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
168	24.80	24.70	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
169	24.70	24.60	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
170	24.60	24.50	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
171	24.50	24.40	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
172	24.40	24.30	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
173	24.30	24.20	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000

174	24.20	24.10	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
175	24.10	24.00	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
176	24.00	23.90	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
177	23.90	23.80	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
178	23.80	23.70	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
179	23.70	23.60	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
180	23.60	23.50	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
181	23.50	23.40	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
182	23.40	23.30	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
183	23.30	23.20	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
184	23.20	23.10	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
185	23.10	23.00	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
186	23.00	22.90	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
187	22.90	22.80	0.00600	33.3	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
TOT						311.48			226325.42	175446.00					
AVG					0.00021		1.29	30.78			39.71				
CUM						913.98									

********** 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
131	28.400	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
132	28.300	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
133	28.200	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
134	28.100	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
135	28.000	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
136	27.900	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
137	27.800	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
138	27.700	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
139	27.600	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
140	27.500	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
141	27.400	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
142	27.300	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
143	27.200	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
144	27.100	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
145	27.000	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
146	26.900	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
147	26.800	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
148	26.700	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
149	26.600	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
150	26.500	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
151	26.400	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
152	26.300	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
153	26.200	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
154	26.100	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
155	26.000	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
156	25.900	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
157	25.800	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
158	25.700	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
159	25.600	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
160	25.500	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00

161	25.400	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
162	25.300	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
163	25.200	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
164	25.100	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
165	25.000	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
166	24.900	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
167	24.800	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
168	24.700	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
169	24.600	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
170	24.500	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
171	24.400	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
172	24.300	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
173	24.200	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
174	24.100	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
175	24.000	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
176	23.900	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
177	23.800	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
178	23.700	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
179	23.600	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
180	23.500	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
181	23.400	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
182	23.300	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
183	23.200	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
184	23.100	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
185	23.000	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
186	22.900	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
187	22.800	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	3.37	3.37	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
AVG 20 DEG C RATE			0.52	0.10	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	0.19	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
131	28.400	29.50	0.10	34.97	301.65	3.23	0.23	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
132	28.300	29.50	0.10	34.94	301.17	3.25	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
133	28.200	29.50	0.10	34.91	300.68	3.27	0.25	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
134	28.100	29.50	0.10	34.88	300.19	3.28	0.26	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
135	28.000	29.50	0.10	34.85	299.69	3.30	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
136	27.900	29.50	0.10	34.82	299.18	3.31	0.29	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
137	27.800	29.50	0.10	34.79	298.67	3.32	0.31	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
138	27.700	29.50	0.10	34.76	298.15	3.34	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
139	27.600	29.50	0.10	34.76	298.08	3.33	0.31	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
140	27.500	29.50	0.10	34.77	298.01	3.33	0.29	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
141	27.400	29.50	0.10	34.78	297.93	3.33	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
142	27.300	29.50	0.10	34.78	297.86	3.33	0.26	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
143	27.200	29.50	0.10	34.79	297.78	3.33	0.25	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
144	27.100	29.50	0.10	34.80	297.70	3.33	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
145	27.000	29.50	0.11	34.80	297.62	3.33	0.23	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
146	26.900	29.50	0.11	34.81	297.54	3.33	0.22	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
147	26.800	29.50	0.11	34.82	297.46	3.33	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
148	26.700	29.50	0.11	34.83	297.37	3.33	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
149	26.600	29.50	0.11	34.84	297.28	3.34	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
150	26.500	29.50	0.11	34.84	297.19	3.34	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
151	26.400	29.50	0.11	34.85	297.10	3.34	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
152	26.300	29.50	0.11	34.86	297.01	3.34	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
153	26.200	29.50	0.11	34.87	296.92	3.34	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
154	26.100	29.50	0.11	34.88	296.82	3.34	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
155	26.000	29.50	0.11	34.89	296.72	3.34	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
156	25.900	29.50	0.11	34.90	296.62	3.34	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
157	25.800	29.50	0.11	34.91	296.52	3.34	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
158	25.700	29.50	0.11	34.91	296.42	3.34	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
159	25.600	29.50	0.11	34.92	296.31	3.34	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
160	25.500	29.50	0.11	34.93	296.20	3.34	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
161	25.400	29.50	0.11	34.94	296.09	3.34	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
162	25.300	29.50	0.11	34.95	295.98	3.34	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
163	25.200	29.50	0.11	34.97	295.86	3.34	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
164	25.100	29.50	0.11	34.98	295.75	3.34	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
165	25.000	29.50	0.11	34.99	295.63	3.33	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
166	24.900	29.50	0.11	35.00	295.50	3.33	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
167	24.800	29.50	0.11	35.01	295.38	3.33	0.22	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
168	24.700	29.50	0.11	35.02	295.25	3.33	0.23	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
169	24.600	29.50	0.11	35.03	295.12	3.33	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
170	24.500	29.50	0.11	35.05	294.99	3.32	0.26	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
171	24.400	29.50	0.11	35.06	294.85	3.32	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
172	24.300	29.50	0.11	35.07	294.72	3.31	0.29	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
173	24.200	29.50	0.12	35.08	294.57	3.31	0.31	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
174	24.100	29.50	0.12	35.10	294.43	3.31	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
175	24.000	29.50	0.12	35.11	294.28	3.30	0.36	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
176	23.900	29.50	0.12	35.12	294.14	3.30	0.39	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
177	23.800	29.50	0.12	35.14	293.98	3.29	0.42	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
178	23.700	29.50	0.12	35.15	293.83	3.29	0.47	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
179	23.600	29.50	0.12	35.17	293.67	3.29	0.51	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
180	23.500	29.50	0.12	35.18	293.51	3.28	0.57	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
181	23.400	29.50	0.12	35.20	293.34	3.29	0.63	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

182	23.300	29.50	0.12	35.21	293.17	3.29	0.70	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
183	23.200	29.50	0.12	35.23	293.00	3.30	0.78	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
184	23.100	29.50	0.12	35.24	292.82	3.31	0.87	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
185	23.000	29.50	0.12	35.26	292.65	3.34	0.98	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
186	22.900	29.50	0.12	35.28	292.46	3.38	1.10	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
187	22.800	29.50	0.12	35.29	292.28	3.43	1.24	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT Baker Canal East
REACH NO. 6 Bayou Chevreuil

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
SUMMER Projection No Man Made Loads (Natural Conditions)

********** 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
188	UPR RCH	0.00600	29.50	0.12	35.29	292.28	3.43	1.24	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
188	22.80	22.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
189	22.70	22.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
190	22.60	22.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
191	22.50	22.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
192	22.40	22.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
193	22.30	22.20	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
194	22.20	22.10	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
195	22.10	22.00	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
196	22.00	21.90	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
197	21.90	21.80	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
198	21.80	21.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
199	21.70	21.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
200	21.60	21.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
201	21.50	21.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
202	21.40	21.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
203	21.30	21.20	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
204	21.20	21.10	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
205	21.10	21.00	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
206	21.00	20.90	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
207	20.90	20.80	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
208	20.80	20.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
209	20.70	20.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
210	20.60	20.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
211	20.50	20.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
212	20.40	20.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
213	20.30	20.20	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
214	20.20	20.10	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
215	20.10	20.00	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
216	20.00	19.90	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
217	19.90	19.80	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000

218	19.80	19.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
219	19.70	19.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
220	19.60	19.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
221	19.50	19.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
222	19.40	19.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
223	19.30	19.20	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
224	19.20	19.10	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
225	19.10	19.00	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
226	19.00	18.90	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
227	18.90	18.80	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
228	18.80	18.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
229	18.70	18.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
230	18.60	18.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
231	18.50	18.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
232	18.40	18.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
233	18.30	18.20	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
234	18.20	18.10	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
235	18.10	18.00	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
236	18.00	17.90	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
237	17.90	17.80	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
238	17.80	17.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
239	17.70	17.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
240	17.60	17.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
241	17.50	17.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
242	17.40	17.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
243	17.30	17.20	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
244	17.20	17.10	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
245	17.10	17.00	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
246	17.00	16.90	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
247	16.90	16.80	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
248	16.80	16.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
249	16.70	16.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
250	16.60	16.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
251	16.50	16.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
252	16.40	16.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
TOT						375.56			194688.12	166400.00					
AVG					0.00020		1.17	25.60			29.95				
CUM						1289.54									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
188	22.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
189	22.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
190	22.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
191	22.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
192	22.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
193	22.200	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
194	22.100	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
195	22.000	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
196	21.900	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
197	21.800	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
198	21.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
199	21.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
200	21.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
201	21.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
202	21.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
203	21.200	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
204	21.100	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
205	21.000	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
206	20.900	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
207	20.800	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
208	20.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
209	20.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
210	20.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
211	20.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
212	20.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
213	20.200	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
214	20.100	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
215	20.000	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
216	19.900	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
217	19.800	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
218	19.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
219	19.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
220	19.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
221	19.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
222	19.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
223	19.200	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
224	19.100	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
225	19.000	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
226	18.900	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
227	18.800	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
228	18.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
229	18.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
230	18.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
231	18.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
232	18.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
233	18.200	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
234	18.100	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
235	18.000	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
236	17.900	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
237	17.800	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00

238	17.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
239	17.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
240	17.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
241	17.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
242	17.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
243	17.200	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
244	17.100	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
245	17.000	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
246	16.900	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
247	16.800	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
248	16.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
249	16.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
250	16.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
251	16.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
252	16.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
AVG 20 DEG C RATE			0.57	0.10	0.00	0.00	0.00	0.00	0.00	1.47			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.19	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
188	22.700	29.50	0.12	35.31	292.08	3.52	1.40	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
189	22.600	29.50	0.12	35.33	291.87	3.58	1.55	0.00	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
190	22.500	29.50	0.12	35.35	291.66	3.62	1.69	0.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
191	22.400	29.50	0.12	35.37	291.45	3.65	1.82	0.00	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
192	22.300	29.50	0.12	35.39	291.23	3.68	1.93	0.00	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
193	22.200	29.50	0.12	35.41	291.01	3.69	2.03	0.00	2.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
194	22.100	29.50	0.12	35.43	290.79	3.70	2.12	0.00	2.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
195	22.000	29.50	0.12	35.45	290.56	3.70	2.20	0.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
196	21.900	29.50	0.12	35.47	290.33	3.70	2.28	0.00	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
197	21.800	29.50	0.12	35.49	290.10	3.70	2.34	0.00	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
198	21.700	29.50	0.12	35.51	289.86	3.69	2.40	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
199	21.600	29.50	0.12	35.54	289.62	3.69	2.45	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
200	21.500	29.50	0.12	35.56	289.38	3.68	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
201	21.400	29.50	0.12	35.58	289.13	3.68	2.55	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
202	21.300	29.50	0.12	35.60	288.88	3.67	2.58	0.00	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
203	21.200	29.50	0.12	35.63	288.63	3.66	2.62	0.00	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
204	21.100	29.50	0.12	35.65	288.37	3.66	2.65	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
205	21.000	29.50	0.12	35.67	288.11	3.65	2.68	0.00	2.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
206	20.900	29.50	0.12	35.70	287.84	3.65	2.71	0.00	2.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
207	20.800	29.50	0.12	35.72	287.57	3.64	2.73	0.00	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
208	20.700	29.50	0.12	35.75	287.30	3.64	2.75	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
209	20.600	29.50	0.12	35.77	287.02	3.63	2.77	0.00	2.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
210	20.500	29.50	0.12	35.80	286.74	3.63	2.79	0.00	2.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
211	20.400	29.50	0.12	35.82	286.46	3.62	2.81	0.00	2.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
212	20.300	29.50	0.12	35.85	286.17	3.62	2.82	0.00	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
213	20.200	29.50	0.12	35.88	285.87	3.61	2.84	0.00	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
214	20.100	29.50	0.12	35.90	285.58	3.61	2.85	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
215	20.000	29.50	0.12	35.93	285.27	3.61	2.87	0.00	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
216	19.900	29.50	0.12	35.96	284.97	3.60	2.88	0.00	2.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
217	19.800	29.50	0.12	35.99	284.66	3.60	2.89	0.00	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

218	19.700	29.50	0.12	36.02	284.34	3.60	2.90	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
219	19.600	29.50	0.12	36.05	284.02	3.59	2.91	0.00	2.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
220	19.500	29.50	0.12	36.08	283.70	3.59	2.93	0.00	2.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
221	19.400	29.50	0.12	36.11	283.37	3.59	2.94	0.00	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
222	19.300	29.50	0.12	36.14	283.03	3.58	2.95	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
223	19.200	29.50	0.12	36.17	282.69	3.58	2.96	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
224	19.100	29.50	0.12	36.20	282.35	3.58	2.98	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
225	19.000	29.50	0.12	36.23	282.00	3.57	2.99	0.00	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
226	18.900	29.50	0.12	36.26	281.64	3.57	3.01	0.00	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
227	18.800	29.50	0.12	36.30	281.28	3.56	3.03	0.00	3.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
228	18.700	29.50	0.12	36.33	280.92	3.56	3.04	0.00	3.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
229	18.600	29.50	0.12	36.36	280.55	3.55	3.06	0.00	3.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
230	18.500	29.50	0.12	36.40	280.17	3.55	3.09	0.00	3.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
231	18.400	29.50	0.12	36.43	279.79	3.54	3.11	0.00	3.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
232	18.300	29.50	0.12	36.47	279.40	3.54	3.14	0.00	3.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
233	18.200	29.50	0.12	36.50	279.01	3.53	3.17	0.00	3.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
234	18.100	29.50	0.12	36.54	278.61	3.52	3.21	0.00	3.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
235	18.000	29.50	0.12	36.57	278.21	3.51	3.25	0.00	3.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
236	17.900	29.50	0.12	36.61	277.80	3.51	3.29	0.00	3.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
237	17.800	29.50	0.12	36.65	277.38	3.50	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
238	17.700	29.50	0.12	36.69	276.96	3.49	3.40	0.00	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
239	17.600	29.50	0.12	36.73	276.54	3.48	3.46	0.00	3.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
240	17.500	29.50	0.12	36.77	276.10	3.47	3.53	0.00	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
241	17.400	29.50	0.12	36.81	275.66	3.47	3.61	0.00	3.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
242	17.300	29.50	0.12	36.85	275.21	3.46	3.70	0.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
243	17.200	29.50	0.12	36.89	274.76	3.46	3.80	0.00	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
244	17.100	29.50	0.12	36.93	274.30	3.46	3.91	0.00	3.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
245	17.000	29.50	0.12	36.97	273.83	3.47	4.04	0.00	4.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
246	16.900	29.50	0.12	37.01	273.36	3.49	4.18	0.00	4.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
247	16.800	29.50	0.12	37.06	272.88	3.51	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
248	16.700	29.50	0.12	37.10	272.39	3.55	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
249	16.600	29.50	0.12	37.15	271.90	3.61	4.74	0.00	4.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
250	16.500	29.50	0.12	37.19	271.40	3.70	4.97	0.00	4.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
251	16.400	29.50	0.12	37.24	270.89	3.82	5.23	0.00	5.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
252	16.300	29.50	0.12	37.28	270.37	3.99	5.53	0.00	5.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 7 Bayou Chevreuil SUMMER Projection No Man Made Loads (Natural Conditions)

********** 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
253	UPR RCH	0.00600	29.50	0.12	37.28	270.37	3.99	5.53	0.00	5.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
255	WSTLD	0.00300	26.07	0.13	31.70	272.60	6.86	6.12	0.00	6.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88
268	WSTLD	0.00300	26.25	0.11	27.00	230.90	6.86	6.35	0.00	6.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.65

********** 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

253	16.30	16.20	0.00600	33.3	0.00009	13.48	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
254	16.20	16.10	0.00600	33.3	0.00009	13.48	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
255	16.10	16.00	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
256	16.00	15.90	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
257	15.90	15.80	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
258	15.80	15.70	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
259	15.70	15.60	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
260	15.60	15.50	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
261	15.50	15.40	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
262	15.40	15.30	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
263	15.30	15.20	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
264	15.20	15.10	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
265	15.10	15.00	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
266	15.00	14.90	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
267	14.90	14.80	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
268	14.80	14.70	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
269	14.70	14.60	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
270	14.60	14.50	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
271	14.50	14.40	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
272	14.40	14.30	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
273	14.30	14.20	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
274	14.20	14.10	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
275	14.10	14.00	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
276	14.00	13.90	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
277	13.90	13.80	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
278	13.80	13.70	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
279	13.70	13.60	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
280	13.60	13.50	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
281	13.50	13.40	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
282	13.40	13.30	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
283	13.30	13.20	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
284	13.20	13.10	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
285	13.10	13.00	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
286	13.00	12.90	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
287	12.90	12.80	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
288	12.80	12.70	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
289	12.70	12.60	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
290	12.60	12.50	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
291	12.50	12.40	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
292	12.40	12.30	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
293	12.30	12.20	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
294	12.20	12.10	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
295	12.10	12.00	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
296	12.00	11.90	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
297	11.90	11.80	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
298	11.80	11.70	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
299	11.70	11.60	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
300	11.60	11.50	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
301	11.50	11.40	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
302	11.40	11.30	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
303	11.30	11.20	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
304	11.20	11.10	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
305	11.10	11.00	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
306	11.00	10.90	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
307	10.90	10.80	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000

308	10.80	10.70	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
309	10.70	10.60	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
310	10.60	10.50	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
311	10.50	10.40	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
312	10.40	10.30	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
313	10.30	10.20	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
314	10.20	10.10	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
315	10.10	10.00	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
316	10.00	9.90	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
317	9.90	9.80	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
TOT						480.68			454122.53	289250.00					
AVG					0.00016		1.57	44.50			69.87				
CUM						1770.22									

********** 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
253	16.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
254	16.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
255	16.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
256	15.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
257	15.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
258	15.700	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
259	15.600	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
260	15.500	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
261	15.400	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
262	15.300	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
263	15.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
264	15.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
265	15.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
266	14.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
267	14.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
268	14.700	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
269	14.600	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
270	14.500	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
271	14.400	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
272	14.300	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
273	14.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
274	14.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
275	14.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
276	13.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
277	13.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
278	13.700	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
279	13.600	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
280	13.500	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
281	13.400	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
282	13.300	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
283	13.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
284	13.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
285	13.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
286	12.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00

287	12.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
288	12.700	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
289	12.600	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
290	12.500	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
291	12.400	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
292	12.300	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
293	12.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
294	12.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
295	12.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
296	11.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
297	11.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
298	11.700	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
299	11.600	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
300	11.500	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
301	11.400	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
302	11.300	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
303	11.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
304	11.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
305	11.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
306	10.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
307	10.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
308	10.700	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
309	10.600	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
310	10.500	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
311	10.400	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
312	10.300	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
313	10.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
314	10.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
315	10.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
316	9.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
317	9.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
AVG 20 DEG C RATE			0.42	0.07	0.00	0.00	0.00	0.00	0.00	0.79			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.28	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
253	16.200	29.50	0.12	37.31	270.09	4.11	5.71	0.00	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
254	16.100	29.50	0.12	37.33	269.90	4.17	5.82	0.00	5.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
255	16.000	29.50	0.12	37.34	269.71	4.23	5.92	0.00	5.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
256	15.900	29.50	0.12	37.38	269.51	4.26	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
257	15.800	29.50	0.12	37.41	269.30	4.29	6.11	0.00	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
258	15.700	29.50	0.12	37.44	269.10	4.32	6.18	0.00	6.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
259	15.600	29.50	0.12	37.48	268.89	4.33	6.26	0.00	6.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
260	15.500	29.50	0.12	37.51	268.69	4.34	6.32	0.00	6.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
261	15.400	29.50	0.12	37.54	268.48	4.35	6.39	0.00	6.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
262	15.300	29.50	0.12	37.58	268.27	4.36	6.44	0.00	6.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
263	15.200	29.50	0.12	37.61	268.05	4.36	6.50	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
264	15.100	29.50	0.12	37.65	267.84	4.37	6.54	0.00	6.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
265	15.000	29.50	0.12	37.68	267.62	4.37	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
266	14.900	29.50	0.12	37.72	267.41	4.37	6.63	0.00	6.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
267	14.800	29.50	0.12	37.75	267.19	4.37	6.67	0.00	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
268	14.700	29.50	0.12	37.79	266.97	4.37	6.70	0.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
269	14.600	29.50	0.12	37.85	266.84	4.36	6.73	0.00	6.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
270	14.500	29.50	0.12	37.92	266.71	4.36	6.76	0.00	6.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
271	14.400	29.50	0.12	37.98	266.58	4.36	6.79	0.00	6.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
272	14.300	29.50	0.12	38.05	266.45	4.35	6.82	0.00	6.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
273	14.200	29.50	0.12	38.12	266.32	4.35	6.84	0.00	6.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
274	14.100	29.50	0.12	38.18	266.18	4.34	6.86	0.00	6.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
275	14.000	29.50	0.12	38.25	266.05	4.34	6.88	0.00	6.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
276	13.900	29.50	0.12	38.32	265.91	4.34	6.90	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
277	13.800	29.50	0.12	38.39	265.77	4.33	6.92	0.00	6.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
278	13.700	29.50	0.12	38.46	265.63	4.33	6.93	0.00	6.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
279	13.600	29.50	0.12	38.53	265.49	4.33	6.95	0.00	6.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
280	13.500	29.50	0.12	38.61	265.35	4.32	6.96	0.00	6.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
281	13.400	29.50	0.12	38.68	265.20	4.32	6.98	0.00	6.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
282	13.300	29.50	0.12	38.75	265.06	4.32	6.99	0.00	6.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
283	13.200	29.50	0.12	38.83	264.91	4.31	7.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
284	13.100	29.50	0.12	38.90	264.76	4.31	7.01	0.00	7.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
285	13.000	29.50	0.12	38.98	264.61	4.31	7.03	0.00	7.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
286	12.900	29.50	0.12	39.06	264.46	4.31	7.04	0.00	7.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
287	12.800	29.50	0.12	39.13	264.30	4.31	7.05	0.00	7.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
288	12.700	29.50	0.12	39.21	264.15	4.30	7.06	0.00	7.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
289	12.600	29.50	0.12	39.29	263.99	4.30	7.07	0.00	7.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
290	12.500	29.50	0.12	39.37	263.83	4.30	7.08	0.00	7.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
291	12.400	29.50	0.12	39.45	263.67	4.30	7.09	0.00	7.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
292	12.300	29.50	0.12	39.54	263.51	4.29	7.10	0.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
293	12.200	29.50	0.12	39.62	263.35	4.29	7.10	0.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
294	12.100	29.50	0.12	39.70	263.19	4.29	7.11	0.00	7.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
295	12.000	29.50	0.12	39.79	263.02	4.29	7.12	0.00	7.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
296	11.900	29.50	0.12	39.87	262.85	4.29	7.14	0.00	7.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
297	11.800	29.50	0.12	39.96	262.68	4.28	7.15	0.00	7.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
298	11.700	29.50	0.12	40.05	262.51	4.28	7.16	0.00	7.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
299	11.600	29.50	0.12	40.14	262.33	4.28	7.17	0.00	7.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
300	11.500	29.50	0.12	40.22	262.16	4.28	7.18	0.00	7.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
301	11.400	29.50	0.12	40.31	261.98	4.28	7.20	0.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
302	11.300	29.50	0.12	40.41	261.80	4.28	7.21	0.00	7.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
303	11.200	29.50	0.12	40.50	261.62	4.28	7.22	0.00	7.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

304	11.100	29.50	0.12	40.59	261.44	4.28	7.24	0.00	7.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
305	11.000	29.50	0.12	40.68	261.25	4.28	7.26	0.00	7.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
306	10.900	29.50	0.12	40.78	261.07	4.28	7.28	0.00	7.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
307	10.800	29.50	0.12	40.88	260.88	4.28	7.30	0.00	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
308	10.700	29.50	0.12	40.97	260.69	4.28	7.32	0.00	7.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
309	10.600	29.50	0.12	41.07	260.50	4.29	7.35	0.00	7.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
310	10.500	29.50	0.12	41.17	260.30	4.29	7.37	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
311	10.400	29.50	0.12	41.27	260.10	4.30	7.40	0.00	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
312	10.300	29.50	0.12	41.37	259.91	4.31	7.43	0.00	7.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
313	10.200	29.50	0.12	41.47	259.71	4.33	7.47	0.00	7.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
314	10.100	29.50	0.12	41.58	259.50	4.35	7.51	0.00	7.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
315	10.000	29.50	0.12	41.68	259.30	4.37	7.55	0.00	7.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
316	9.900	29.50	0.12	41.79	259.09	4.40	7.59	0.00	7.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
317	9.800	29.50	0.12	41.89	258.88	4.44	7.64	0.00	7.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT Baker Canal East
REACH NO. 8 Bayou Chevreuil

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
SUMMER Projection No Man Made Loads (Natural Conditions)

********** 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
318	UPR RCH	0.01200	29.50	0.12	41.89	258.88	4.44	7.64	0.00	7.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
318	9.80	9.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
319	9.70	9.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
320	9.60	9.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
321	9.50	9.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
322	9.40	9.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
323	9.30	9.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
324	9.20	9.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
325	9.10	9.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
326	9.00	8.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
327	8.90	8.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
328	8.80	8.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
329	8.70	8.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
330	8.60	8.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
331	8.50	8.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
332	8.40	8.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
333	8.30	8.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
334	8.20	8.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
335	8.10	8.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
336	8.00	7.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
337	7.90	7.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
338	7.80	7.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
339	7.70	7.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000

340	7.60	7.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
341	7.50	7.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
342	7.40	7.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
343	7.30	7.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
344	7.20	7.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
345	7.10	7.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
346	7.00	6.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
347	6.90	6.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
348	6.80	6.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
349	6.70	6.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
350	6.60	6.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
351	6.50	6.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
352	6.40	6.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
353	6.30	6.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
354	6.20	6.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
355	6.10	6.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
356	6.00	5.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
357	5.90	5.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
358	5.80	5.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
359	5.70	5.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
360	5.60	5.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
361	5.50	5.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
362	5.40	5.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
363	5.30	5.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
364	5.20	5.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
365	5.10	5.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
366	5.00	4.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
367	4.90	4.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
368	4.80	4.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
369	4.70	4.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
370	4.60	4.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
371	4.50	4.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
372	4.40	4.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
373	4.30	4.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
374	4.20	4.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
375	4.10	4.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
376	4.00	3.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
377	3.90	3.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
378	3.80	3.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
379	3.70	3.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
380	3.60	3.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
381	3.50	3.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
382	3.40	3.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
383	3.30	3.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
384	3.20	3.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
385	3.10	3.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
386	3.00	2.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
387	2.90	2.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
388	2.80	2.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
389	2.70	2.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
390	2.60	2.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
391	2.50	2.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
392	2.40	2.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
393	2.30	2.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
394	2.20	2.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
395	2.10	2.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000

396	2.00	1.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
397	1.90	1.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
398	1.80	1.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
399	1.70	1.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
400	1.60	1.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
401	1.50	1.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
402	1.40	1.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
403	1.30	1.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
404	1.20	1.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
405	1.10	1.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
406	1.00	0.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
407	0.90	0.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
408	0.80	0.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
409	0.70	0.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
410	0.60	0.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
411	0.50	0.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
412	0.40	0.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
413	0.30	0.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
414	0.20	0.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
415	0.10	0.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
TOT						793.13			822316.06	480886.00					
AVG					0.00014		1.71	49.07			83.91				
CUM						2563.35									

********** 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
318	9.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
319	9.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
320	9.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
321	9.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
322	9.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
323	9.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
324	9.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
325	9.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
326	8.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
327	8.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
328	8.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
329	8.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
330	8.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
331	8.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
332	8.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
333	8.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
334	8.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
335	8.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
336	7.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
337	7.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
338	7.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
339	7.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
340	7.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
341	7.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00

342	7.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
343	7.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
344	7.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
345	7.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
346	6.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
347	6.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
348	6.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
349	6.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
350	6.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
351	6.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
352	6.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
353	6.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
354	6.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
355	6.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
356	5.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
357	5.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
358	5.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
359	5.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
360	5.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
361	5.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
362	5.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
363	5.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
364	5.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
365	5.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
366	4.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
367	4.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
368	4.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
369	4.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
370	4.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
371	4.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
372	4.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
373	4.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
374	4.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
375	4.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
376	3.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
377	3.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
378	3.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
379	3.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
380	3.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
381	3.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
382	3.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
383	3.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
384	3.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
385	3.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
386	2.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
387	2.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
388	2.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
389	2.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
390	2.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
391	2.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
392	2.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
393	2.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
394	2.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
395	2.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
396	1.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
397	1.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00

398	1.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
399	1.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
400	1.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
401	1.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
402	1.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
403	1.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
404	1.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
405	1.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
406	0.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
407	0.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
408	0.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
409	0.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
410	0.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
411	0.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
412	0.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
413	0.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
414	0.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
415	0.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
AVG 20 DEG C RATE			0.39	0.07	0.00	0.00	0.00	0.00	0.00	0.49			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.28	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
318	9.700	29.50	0.12	41.98	258.70	4.48	7.69	0.00	7.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
319	9.600	29.50	0.12	42.06	258.55	4.51	7.72	0.00	7.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
320	9.500	29.50	0.12	42.14	258.40	4.53	7.76	0.00	7.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
321	9.400	29.50	0.12	42.22	258.24	4.55	7.79	0.00	7.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
322	9.300	29.50	0.12	42.30	258.08	4.56	7.82	0.00	7.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
323	9.200	29.50	0.12	42.38	257.92	4.58	7.85	0.00	7.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
324	9.100	29.50	0.12	42.47	257.76	4.59	7.87	0.00	7.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
325	9.000	29.50	0.12	42.55	257.60	4.59	7.89	0.00	7.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
326	8.900	29.50	0.12	42.63	257.44	4.60	7.91	0.00	7.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
327	8.800	29.50	0.12	42.71	257.28	4.61	7.93	0.00	7.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
328	8.700	29.50	0.12	42.80	257.11	4.61	7.95	0.00	7.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
329	8.600	29.50	0.12	42.88	256.95	4.61	7.97	0.00	7.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
330	8.500	29.50	0.12	42.97	256.78	4.61	7.98	0.00	7.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
331	8.400	29.50	0.12	43.05	256.61	4.61	8.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
332	8.300	29.50	0.12	43.14	256.44	4.61	8.01	0.00	8.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
333	8.200	29.50	0.12	43.23	256.27	4.62	8.02	0.00	8.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
334	8.100	29.50	0.12	43.32	256.10	4.62	8.03	0.00	8.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
335	8.000	29.50	0.12	43.41	255.93	4.61	8.04	0.00	8.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
336	7.900	29.50	0.12	43.49	255.75	4.61	8.05	0.00	8.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
337	7.800	29.50	0.12	43.58	255.57	4.61	8.06	0.00	8.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
338	7.700	29.50	0.12	43.68	255.40	4.61	8.07	0.00	8.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
339	7.600	29.50	0.12	43.77	255.22	4.61	8.08	0.00	8.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
340	7.500	29.50	0.12	43.86	255.04	4.61	8.09	0.00	8.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
341	7.400	29.50	0.12	43.95	254.86	4.61	8.09	0.00	8.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
342	7.300	29.50	0.12	44.05	254.67	4.61	8.10	0.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
343	7.200	29.50	0.12	44.14	254.49	4.61	8.10	0.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
344	7.100	29.50	0.12	44.24	254.30	4.61	8.11	0.00	8.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

345	7.000	29.50	0.12	44.33	254.12	4.61	8.11	0.00	8.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
346	6.900	29.50	0.12	44.43	253.93	4.61	8.12	0.00	8.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
347	6.800	29.50	0.12	44.52	253.74	4.61	8.12	0.00	8.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
348	6.700	29.50	0.12	44.62	253.55	4.60	8.12	0.00	8.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
349	6.600	29.50	0.12	44.72	253.36	4.60	8.13	0.00	8.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
350	6.500	29.50	0.12	44.82	253.16	4.60	8.13	0.00	8.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
351	6.400	29.50	0.12	44.92	252.97	4.60	8.13	0.00	8.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
352	6.300	29.50	0.12	45.02	252.77	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
353	6.200	29.50	0.12	45.12	252.57	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
354	6.100	29.50	0.12	45.23	252.37	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
355	6.000	29.50	0.12	45.33	252.17	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
356	5.900	29.50	0.12	45.43	251.97	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
357	5.800	29.50	0.11	45.54	251.76	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
358	5.700	29.50	0.11	45.64	251.56	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
359	5.600	29.50	0.11	45.75	251.35	4.60	8.15	0.00	8.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
360	5.500	29.50	0.11	45.86	251.14	4.60	8.15	0.00	8.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
361	5.400	29.50	0.11	45.97	250.93	4.60	8.15	0.00	8.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
362	5.300	29.50	0.11	46.08	250.72	4.60	8.15	0.00	8.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
363	5.200	29.50	0.11	46.19	250.50	4.60	8.15	0.00	8.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
364	5.100	29.50	0.11	46.30	250.29	4.60	8.15	0.00	8.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
365	5.000	29.50	0.11	46.41	250.07	4.60	8.15	0.00	8.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
366	4.900	29.50	0.11	46.52	249.85	4.60	8.15	0.00	8.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
367	4.800	29.50	0.11	46.63	249.63	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
368	4.700	29.50	0.11	46.75	249.41	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
369	4.600	29.50	0.11	46.86	249.19	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
370	4.500	29.50	0.11	46.98	248.96	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
371	4.400	29.50	0.11	47.09	248.74	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
372	4.300	29.50	0.11	47.21	248.51	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
373	4.200	29.50	0.11	47.33	248.28	4.60	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
374	4.100	29.50	0.11	47.45	248.04	4.60	8.13	0.00	8.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
375	4.000	29.50	0.11	47.57	247.81	4.60	8.13	0.00	8.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
376	3.900	29.50	0.11	47.69	247.57	4.60	8.13	0.00	8.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
377	3.800	29.50	0.11	47.81	247.34	4.60	8.12	0.00	8.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
378	3.700	29.50	0.11	47.94	247.10	4.60	8.12	0.00	8.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
379	3.600	29.50	0.11	48.06	246.86	4.60	8.12	0.00	8.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
380	3.500	29.50	0.11	48.19	246.61	4.60	8.11	0.00	8.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
381	3.400	29.50	0.11	48.31	246.37	4.60	8.11	0.00	8.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
382	3.300	29.50	0.11	48.44	246.12	4.60	8.10	0.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
383	3.200	29.50	0.11	48.57	245.87	4.60	8.09	0.00	8.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
384	3.100	29.50	0.11	48.70	245.62	4.60	8.09	0.00	8.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
385	3.000	29.50	0.11	48.83	245.37	4.60	8.08	0.00	8.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
386	2.900	29.50	0.11	48.96	245.12	4.60	8.07	0.00	8.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
387	2.800	29.50	0.11	49.09	244.86	4.61	8.06	0.00	8.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
388	2.700	29.50	0.11	49.22	244.60	4.61	8.05	0.00	8.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
389	2.600	29.50	0.11	49.35	244.35	4.61	8.04	0.00	8.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
390	2.500	29.50	0.11	49.49	244.08	4.61	8.03	0.00	8.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
391	2.400	29.50	0.11	49.63	243.82	4.61	8.02	0.00	8.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
392	2.300	29.50	0.11	49.76	243.55	4.61	8.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
393	2.200	29.50	0.11	49.90	243.29	4.61	7.99	0.00	7.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
394	2.100	29.50	0.11	50.04	243.02	4.61	7.97	0.00	7.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
395	2.000	29.50	0.11	50.18	242.74	4.61	7.96	0.00	7.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
396	1.900	29.50	0.10	50.32	242.47	4.61	7.94	0.00	7.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
397	1.800	29.50	0.10	50.46	242.20	4.62	7.92	0.00	7.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
398	1.700	29.50	0.10	50.61	241.92	4.62	7.89	0.00	7.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
399	1.600	29.50	0.10	50.75	241.64	4.63	7.87	0.00	7.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
400	1.500	29.50	0.10	50.90	241.36	4.63	7.84	0.00	7.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12

401	1.400	29.50	0.10	51.04	241.07	4.65	7.81	0.00	7.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.14
402	1.300	29.50	0.10	51.19	240.78	4.66	7.78	0.00	7.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.17
403	1.200	29.50	0.10	51.34	240.50	4.68	7.74	0.00	7.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.21
404	1.100	29.50	0.10	51.49	240.21	4.71	7.70	0.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
405	1.000	29.50	0.10	51.64	239.91	4.74	7.66	0.00	7.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.30
406	0.900	29.50	0.10	51.79	239.62	4.79	7.62	0.00	7.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.36
407	0.800	29.50	0.10	51.95	239.32	4.85	7.57	0.00	7.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.43
408	0.700	29.50	0.10	52.10	239.02	4.93	7.51	0.00	7.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
409	0.600	29.50	0.10	52.26	238.72	5.03	7.45	0.00	7.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
410	0.500	29.50	0.10	52.41	238.41	5.16	7.39	0.00	7.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.75
411	0.400	29.50	0.10	52.57	238.11	5.32	7.32	0.00	7.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90
412	0.300	29.50	0.10	52.73	237.80	5.54	7.24	0.00	7.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.09
413	0.200	29.50	0.10	52.89	237.49	5.81	7.16	0.00	7.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.31
414	0.100	29.50	0.10	53.05	237.17	6.15	7.07	0.00	7.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.57
415	0.000	29.50	0.10	53.22	236.86	6.59	6.97	0.00	6.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.89

STREAM SUMMARY
Baker Canal East

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
SUMMER Projection No Man Made Loads (Natural Conditions)

TRAVEL TIME	=	2563.35	DAYS		
MAXIMUM EFFLUENT	=	66.67	PERCENT		
FLOW	=	0.00300	TO	0.01200	m^3/s
DISPERSION	=	0.8700	TO	1.8800	m^2/s
VELOCITY	=	0.00009	TO	0.00026	m/s
DEPTH	=	0.94	TO	1.71	m
WIDTH	=	21.94	TO	49.07	m
BOD DECAY	=	0.11	TO	0.15	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.89	TO	3.63	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.46	TO	0.85	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	=	29.50	TO	29.50	deg C
DISSOLVED OXYGEN	=	2.99	TO	6.59	mg/L

FINAL REPORT Bayou Verret
REACH NO. 2 Bayou Verret

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
SUMMER Projection No Man Made Loads (Natural Conditions)

********** 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
32	HDWTR	0.00300	29.50	0.25	64.90	502.40	6.86	7.30	0.00	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70

********** 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
32	3.20	3.10	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
33	3.10	3.00	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
34	3.00	2.90	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
35	2.90	2.80	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
36	2.80	2.70	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
37	2.70	2.60	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
38	2.60	2.50	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
39	2.50	2.40	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
40	2.40	2.30	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
41	2.30	2.20	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
42	2.20	2.10	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
43	2.10	2.00	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
44	2.00	1.90	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
45	1.90	1.80	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
46	1.80	1.70	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
47	1.70	1.60	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
48	1.60	1.50	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
49	1.50	1.40	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
50	1.40	1.30	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
51	1.30	1.20	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
52	1.20	1.10	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
53	1.10	1.00	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
54	1.00	0.90	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
55	0.90	0.80	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
56	0.80	0.70	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
57	0.70	0.60	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
58	0.60	0.50	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
59	0.50	0.40	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
60	0.40	0.30	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
61	0.30	0.20	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
62	0.20	0.10	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
63	0.10	0.00	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
TOT						216.71			56171.51	78016.00					
AVG					0.00017		0.72	24.38			17.55				
CUM						216.71									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
32	3.100	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
33	3.000	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
34	2.900	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
35	2.800	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
36	2.700	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
37	2.600	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
38	2.500	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00

39	2.400	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
40	2.300	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
41	2.200	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
42	2.100	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
43	2.000	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
44	1.900	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
45	1.800	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
46	1.700	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
47	1.600	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
48	1.500	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
49	1.400	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
50	1.300	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
51	1.200	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
52	1.100	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
53	1.000	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
54	0.900	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
55	0.800	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
56	0.700	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
57	0.600	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
58	0.500	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
59	0.400	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
60	0.300	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
61	0.200	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
62	0.100	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
63	0.000	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	3.64	3.64	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
AVG 20 DEG C RATE			0.93	0.09	0.00	0.00	0.00	0.00	0.00	2.00			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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
32	3.100	29.50	0.19	49.63	409.92	3.08	0.92	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.17
33	3.000	29.50	0.19	49.33	408.10	3.04	0.81	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.15
34	2.900	29.50	0.18	49.02	406.25	3.01	0.72	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.13
35	2.800	29.50	0.18	48.71	404.36	2.99	0.64	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.11
36	2.700	29.50	0.18	48.39	402.43	2.99	0.56	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09
37	2.600	29.50	0.17	48.07	400.47	2.98	0.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
38	2.500	29.50	0.17	47.74	398.46	2.98	0.44	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
39	2.400	29.50	0.16	47.40	396.42	2.99	0.39	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
40	2.300	29.50	0.16	47.06	394.34	2.99	0.35	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
41	2.200	29.50	0.16	46.71	392.22	2.99	0.31	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
42	2.100	29.50	0.15	46.35	390.05	3.00	0.28	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
43	2.000	29.50	0.15	45.98	387.85	3.00	0.25	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
44	1.900	29.50	0.15	45.61	385.59	3.01	0.22	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
45	1.800	29.50	0.14	45.23	383.30	3.01	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
46	1.700	29.50	0.14	44.85	380.96	3.01	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
47	1.600	29.50	0.13	44.45	378.57	3.02	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
48	1.500	29.50	0.13	44.05	376.14	3.02	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
49	1.400	29.50	0.13	43.64	373.66	3.02	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
50	1.300	29.50	0.12	43.22	371.13	3.02	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
51	1.200	29.50	0.12	42.80	368.55	3.02	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01

52	1.100	29.50	0.12	42.36	365.92	3.03	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
53	1.000	29.50	0.11	41.92	363.24	3.03	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
54	0.900	29.50	0.11	41.47	360.50	3.03	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
55	0.800	29.50	0.11	41.01	357.72	3.03	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
56	0.700	29.50	0.10	40.54	354.87	3.03	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
57	0.600	29.50	0.10	40.06	351.97	3.03	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
58	0.500	29.50	0.09	39.57	349.02	3.04	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
59	0.400	29.50	0.09	39.07	346.00	3.05	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
60	0.300	29.50	0.09	38.57	342.93	3.06	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
61	0.200	29.50	0.08	38.05	339.80	3.08	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
62	0.100	29.50	0.08	37.52	336.60	3.11	0.30	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
63	0.000	29.50	0.08	36.98	333.34	3.15	0.35	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

STREAM SUMMARY
Bayou Verret

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
SUMMER Projection No Man Made Loads (Natural Conditions)

TRAVEL TIME	=	216.71	DAYS		
MAXIMUM EFFLUENT	=	0.00	PERCENT		
FLOW	=	0.00300	TO	0.00300	m^3/s
DISPERSION	=	0.8700	TO	0.8700	m^2/s
VELOCITY	=	0.00017	TO	0.00017	m/s
DEPTH	=	0.72	TO	0.72	m
WIDTH	=	24.38	TO	24.38	m
BOD DECAY	=	0.14	TO	0.14	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	3.63	TO	3.64	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	1.10	TO	1.10	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	=	29.50	TO	29.50	deg C
DISSOLVED OXYGEN	=	2.98	TO	3.15	mg/L

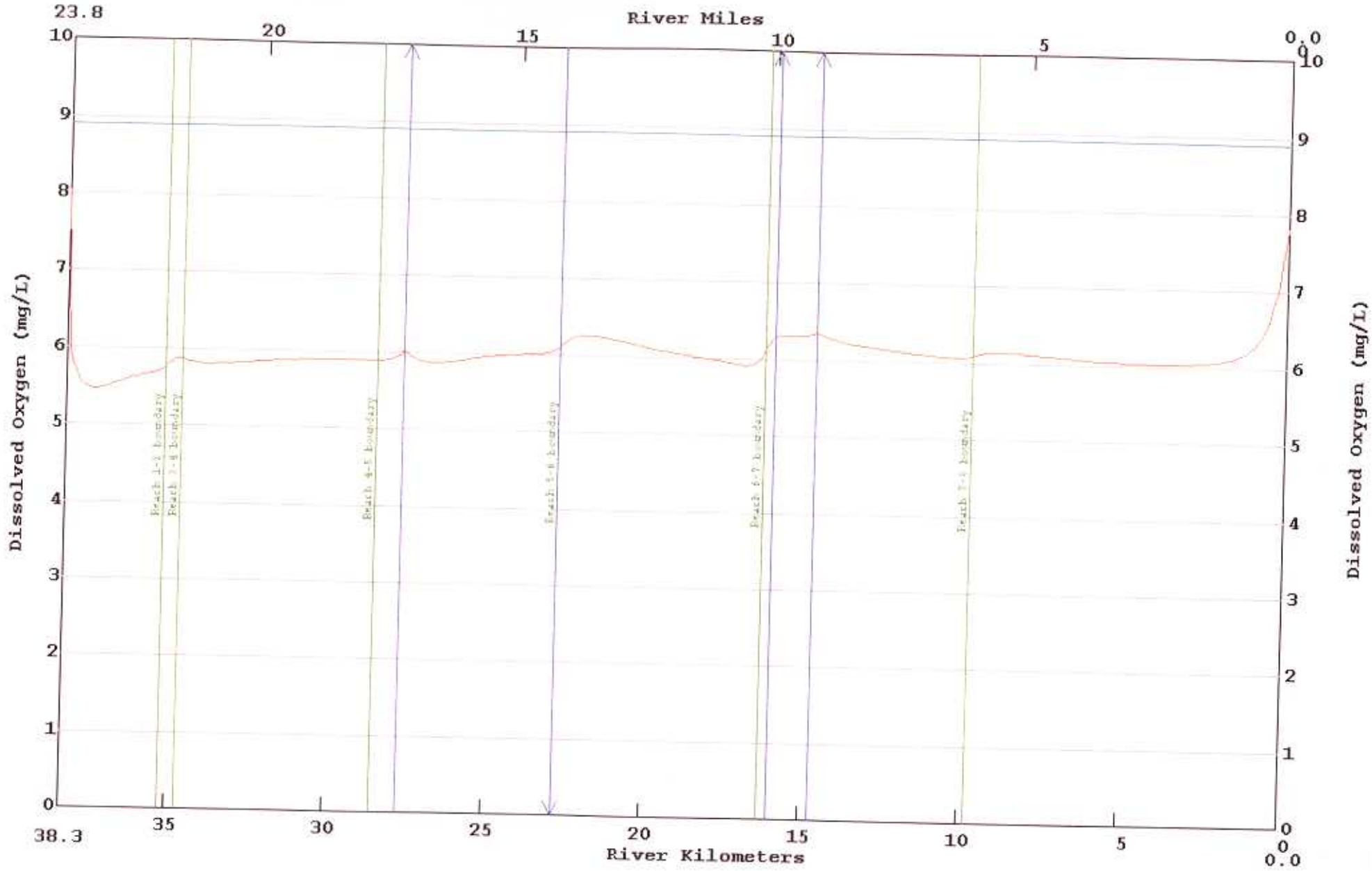
LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
SUMMER Projection No Man Made Loads (Natural Conditions)

INPUT/OUTPUT LOADING SUMMARY

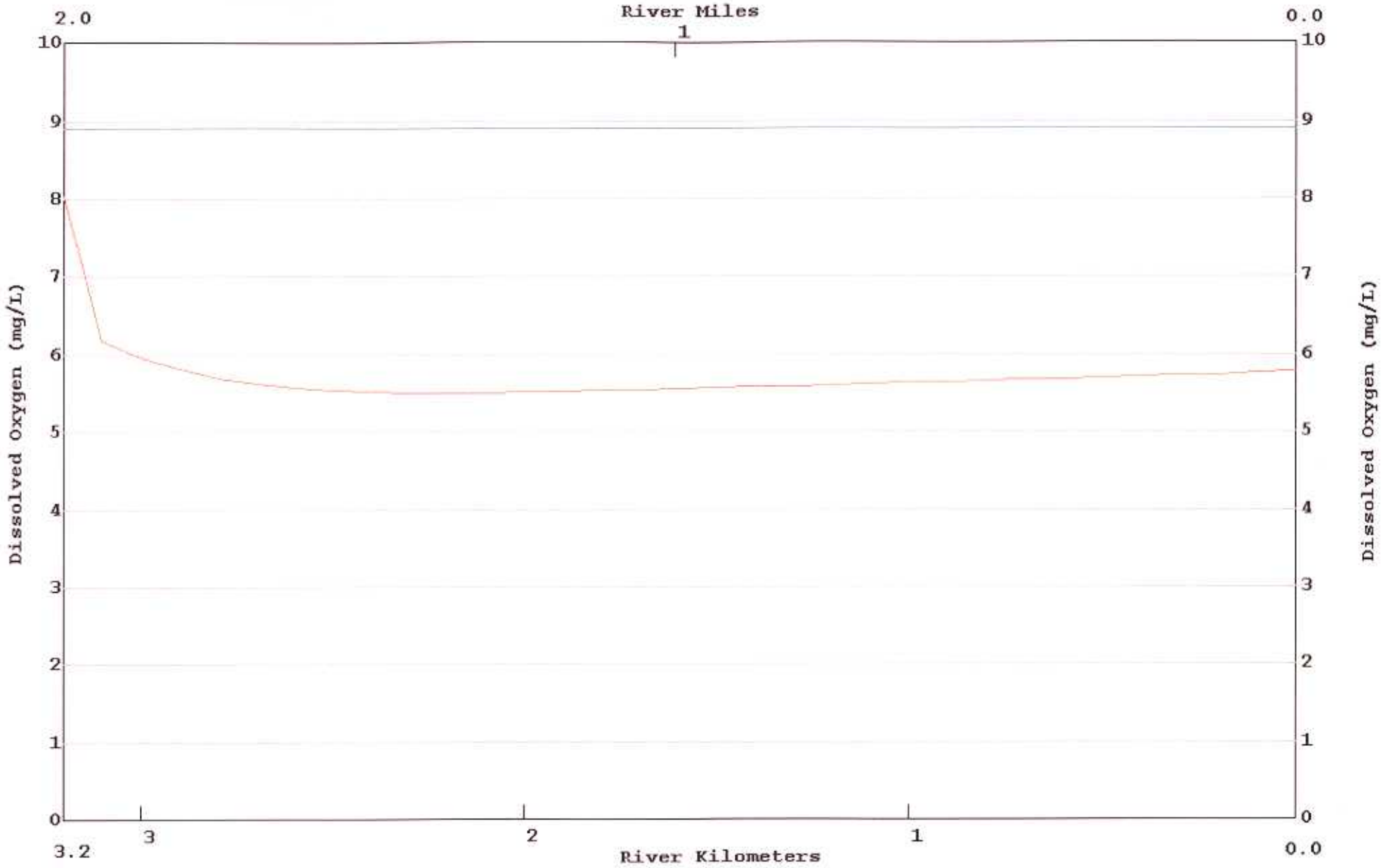
	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER INFLOW	0.006	3.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	1.5
INCREMENTAL INFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	0.009	5.3	5.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
WITHDRAWLS	-0.003	-0.9	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OUTFLOW THRU LOWER BNDRY	-0.012	-6.8	-7.2	0.0	0.0	0.0	0.0	0.0	0.0	-2.0
DISPERSION THRU LOWER BNDRY		74.8	-14.6	0.0	0.0	0.0	0.0	0.0	0.0	52.1
NON-POINT INPUT		0.0	1176.0	0.0	0.0					0.0
NATURAL REAERATION		4142.3								
DAM REAERATION		0.0								
BACKGROUND SOD		-3003.2								
BOD#1 DECAY		-1162.0	-1162.0							
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		0.0				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		-53.6								-53.6
NCM SETTLING		0.0								0.0
TOTAL INPUTS	0.015	4226.0	1184.2	0.0	0.0	0.0	0.0	0.0	0.0	55.6
TOTAL OUTPUTS	-0.015	-4226.5	-1184.2	0.0	0.0	0.0	0.0	0.0	0.0	-55.6
NET CONVERGENCE ERROR	0.000	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

.....EXECUTION COMPLETED

LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\proj\winter\nat\chev_wint_nat.txt
WINTER Projection No Man Made Loads (Natural Conditions)
Main Stem min= 5.47 max= 8.03



LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\proj\winter\nat\chev_wint_nat.txt
WINTER Projection No Man Made Loads (Natural Conditions) min= 5.50 max= 8.03
LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101



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LA-QUAL Version 6.02
Louisiana Department of Environmental Quality

Input file is R:\projects\3110-051\la-qual\chevreuil\revisions\proj\winter\nat\chev_wint_nat.txt
Output produced at 12:01 on 05/04/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
TITLE02         WINTER Projection No Man Made Loads (Natural Conditions)
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   DISS
MODOPT06  YES   BIOC
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
ENDATA03

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

 CARD TYPE     RATE CODE     THETA VALUE

ENDATA04
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$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$

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	BK	Baker Canal East	38.30	TO	35.20	0.1000	3.10	31	1	31
REACH ID	2	BV	Bayou Verret	3.20	TO	0.00	0.1000	3.20	32	32	63
REACH ID	3	BC	Bayou Citamon	35.20	TO	34.70	0.1000	0.50	5	64	68
REACH ID	4	BC	Bayou Citamon	34.70	TO	28.50	0.1000	6.20	62	69	130
REACH ID	5	BC	Bayou Citamon	28.50	TO	22.80	0.1000	5.70	57	131	187
REACH ID	6	BH	Bayou Chevreuil	22.80	TO	16.30	0.1000	6.50	65	188	252
REACH ID	7	BH	Bayou Chevreuil	16.30	TO	9.80	0.1000	6.50	65	253	317
REACH ID	8	BH	Bayou Chevreuil	9.80	TO	0.00	0.1000	9.80	98	318	415

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	BK	0.000	0.000	27.130	0.000	0.000	0.940	0.00000	0.000
HYDR-1	2	BV	0.000	0.000	24.380	0.000	0.000	0.720	0.00000	0.000
HYDR-1	3	BC	0.000	0.000	27.130	0.000	0.000	0.940	0.00000	0.000
HYDR-1	4	BC	0.000	0.000	21.940	0.000	0.000	1.040	0.00000	0.000
HYDR-1	5	BC	0.000	0.000	30.780	0.000	0.000	1.290	0.00000	0.000
HYDR-1	6	BH	0.000	0.000	25.600	0.000	0.000	1.170	0.00000	0.000
HYDR-1	7	BH	0.000	0.000	44.500	0.000	0.000	1.570	0.00000	0.000
HYDR-1	8	BH	0.000	0.000	49.070	0.000	0.000	1.710	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	BK	0.00	0.870	0.000	0.000	0.000
HYDR	2	BV	0.00	0.870	0.000	0.000	0.000
HYDR	3	BC	0.00	0.870	0.000	0.000	0.000
HYDR	4	BC	0.00	0.870	0.000	0.000	0.000
HYDR	5	BC	0.00	1.120	0.000	0.000	0.000
HYDR	6	BH	0.00	1.380	0.000	0.000	0.000
HYDR	7	BH	0.00	1.630	0.000	0.000	0.000
HYDR	8	BH	0.00	1.880	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	BK	21.00	0.08	1.50	0.00	0.00	0.00	0.00	0.00
INITIAL	2	BV	21.00	0.19	2.14	0.00	0.00	0.00	0.00	0.00
INITIAL	3	BC	21.00	0.08	1.50	0.00	0.00	0.00	0.00	0.00
INITIAL	4	BC	21.00	0.11	2.20	0.00	0.00	0.00	0.00	0.00
INITIAL	5	BC	21.00	0.10	2.55	0.00	0.00	0.00	0.00	0.00
INITIAL	6	BH	21.00	0.12	2.83	0.00	0.00	0.00	0.00	0.00
INITIAL	7	BH	21.00	0.12	2.14	0.00	0.00	0.00	0.00	0.00
INITIAL	8	BH	21.00	0.12	2.70	0.00	0.00	0.00	0.00	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	BK	15 LOUISIANA	0.000	0.000	0.000	2.000	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	BV	15 LOUISIANA	0.000	0.000	0.000	2.000	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	BC	15 LOUISIANA	0.000	0.000	0.000	1.780	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	BC	15 LOUISIANA	0.000	0.000	0.000	1.980	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	BC	15 LOUISIANA	0.000	0.000	0.000	1.850	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	BH	15 LOUISIANA	0.000	0.000	0.000	1.470	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	BH	15 LOUISIANA	0.000	0.000	0.000	0.790	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	BH	15 LOUISIANA	0.000	0.000	0.000	0.490	0.070	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    ALGAE:     ALGAE    ALG CONV     ALGAE     ALGAE     MACRO     MACRO
                                DEPTH     CHL A      SETT     TO SOD       GROW      RESP      GROW      RESP

ENDATA14

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

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

COEF-4           1   BK       0.000     0.110     0.000     0.000
COEF-4           2   BV       0.000     0.110     0.000     0.000
COEF-4           3   BC       0.000     0.110     0.000     0.000
COEF-4           4   BC       0.000     0.190     0.000     0.000
COEF-4           5   BC       0.000     0.190     0.000     0.000
COEF-4           6   BH       0.000     0.190     0.000     0.000
COEF-4           7   BH       0.000     0.280     0.000     0.000
COEF-4           8   BH       0.000     0.280     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   BK        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         2   BV        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         3   BC        3.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         4   BC        3.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         5   BC        5.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         6   BH       88.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         7   BH      349.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         8   BH      728.00      0.00      0.00      0.00      0.00      0.00
ENDATA19

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

CARD TYPE	ELEMENT	NAME	UNIT	FLOW m³/s	FLOW cfs	TEMP deg C	SALIN ppt	CM-I mg/L	CM-II umhos
HDWTR-1	1	Baker Canal East	0	0.02800	0.989	21.00	0.07	9.300	172.000
HDWTR-1	32	Bayou Verret	0	0.02800	0.989	21.00	0.25	64.900	502.400

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-2	1	Baker Canal East	8.03	4.90	0.00	0.00	0.00	0.00
HDWTR-2	32	Bayou Verret	8.03	7.30	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-3	1	Baker Canal East	0.00	0.00	0.00	4.10
HDWTR-3	32	Bayou Verret	0.00	0.00	0.00	1.70

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME
JUNCTION	64	31	35.20	Bayou Verret

ENDATA23

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

CARD TYPE	ELEMENT	RKILO	NAME	FLOW m³/s	FLOW cfs	FLOW MGD	TEMP deg C	SALIN ppt	CM-I mg/L	CM-II umhos
WSTLD-1	138	27.80	Middle Saint James	0.02800	0.98870	0.639	25.64	0.11	29.100	230.600
WSTLD-1	187	22.90	Grand Bayou	-0.02800	-0.98870	-0.639	0.00	0.00	0.000	0.000
WSTLD-1	255	16.10	Upper Saint James	0.02800	0.98870	0.639	26.07	0.13	31.700	272.600
WSTLD-1	268	14.80	Dredge Boat Canal	0.02800	0.98870	0.639	26.25	0.11	27.000	230.900

ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE	ELEMENT	NAME	DO mg/L	BOD mg/L	% BOD RMVL	ORG-N mg/L	NH3-N mg/L	% NITRIF	NO3-N mg/L	BOD#2 mg/L
WSTLD-2	138	Middle Saint James	8.03	6.89	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	187	Grand Bayou	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	255	Upper Saint James	8.03	6.12	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	268	Dredge Boat Canal	8.03	6.35	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 mg/L	CHL A mg/L	COLI mg/L	NCM mg/L
WSTLD-3	138	Middle Saint James	0.00	0.00	0.00	2.11
WSTLD-3	187	Grand Bayou	0.00	0.00	0.00	0.00
WSTLD-3	255	Upper Saint James	0.00	0.00	0.00	2.88
WSTLD-3	268	Dredge Boat Canal	0.00	0.00	0.00	2.65

ENDATA26

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

CARD TYPE	CONSTITUENT	CONCENTRATION		
LOWER BC	TEMPERATURE	=	21.000	deg C
LOWER BC	SALINITY	=	0.100	ppt
LOWER BC	CONSERVATIVE MATERIAL I (Cl)	=	53.300	mg/L
LOWER BC	CONSERVATIVE MATERIAL II (Cond)	=	236.700	umhos
LOWER BC	DISSOLVED OXYGEN	=	8.030	mg/L
LOWER BC	BIOCHEMICAL OXYGEN DEMAND	=	6.920	mg/L
LOWER BC	CHLOROPHYLL A	=	0.000	µg/L
LOWER BC	NONCONSERVATIVE MATERIAL (NBOD)	=	2.080	mg/L

ENDATA27

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

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

ENDATA28

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

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

ENDATA29

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

NUMBER OF PLOTS = 3
NUMBER OF REACHES IN PLOT 1 = 7
PLOT RCH 1 3 4 5 6 7 8
NUMBER OF REACHES IN PLOT 2 = 1
PLOT RCH 2

```
NUMBER OF REACHES IN PLOT 3 =   7
PLOT RCH  1  3  4  5  6  7  8
ENDATA30

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


OVERLAY 1 CHEV_PROJ.OVL                    Main Stem
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  24 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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CONDENSED CAPSULE SUMMARY FOR Baker Canal East

DIST km	FLOW m^3/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 $g/m^2/d$
HDWTR	0.02800	21.00	0.07	8.03	4.90	0.00	0.00	0.00	0.00							
38.20	0.02800	21.00	0.08	5.98	3.08	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
38.10	0.02800	21.00	0.08	5.81	2.89	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
38.00	0.02800	21.00	0.08	5.69	2.71	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
37.90	0.02800	21.00	0.08	5.60	2.54	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
37.80	0.02800	21.00	0.08	5.54	2.38	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
37.70	0.02800	21.00	0.08	5.51	2.24	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
37.60	0.02800	21.00	0.08	5.48	2.10	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
37.50	0.02800	21.00	0.08	5.47	1.97	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
37.40	0.02800	21.00	0.08	5.47	1.85	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
37.30	0.02800	21.00	0.08	5.47	1.74	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
37.20	0.02800	21.00	0.08	5.48	1.63	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
37.10	0.02800	21.00	0.08	5.49	1.53	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
37.00	0.02800	21.00	0.08	5.50	1.44	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
36.90	0.02800	21.00	0.08	5.52	1.36	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
36.80	0.02800	21.00	0.08	5.53	1.28	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
36.70	0.02800	21.00	0.08	5.55	1.21	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
36.60	0.02800	21.00	0.08	5.56	1.14	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
36.50	0.02800	21.00	0.08	5.58	1.08	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
36.40	0.02800	21.00	0.08	5.59	1.03	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
36.30	0.02800	21.00	0.08	5.60	0.98	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
36.20	0.02800	21.00	0.08	5.62	0.94	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
36.10	0.02800	21.00	0.08	5.63	0.90	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
36.00	0.02800	21.00	0.08	5.64	0.87	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
35.90	0.02800	21.00	0.08	5.65	0.85	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
35.80	0.02800	21.00	0.08	5.66	0.83	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
35.70	0.02800	21.00	0.08	5.67	0.83	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
35.60	0.02800	21.00	0.08	5.68	0.83	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13

35.50	0.02800	21.00	0.08	5.70	0.85	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
35.40	0.02800	21.00	0.08	5.71	0.87	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
35.30	0.02800	21.00	0.08	5.73	0.92	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
35.20	0.02800	21.00	0.08	5.76	0.97	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.13
35.10	0.05600	21.00	0.08	5.80	1.05	0.00	0.00	0.00	0.00	0.75	0.09	0.00	0.00	0.00	0.00	1.89
35.00	0.05600	21.00	0.09	5.84	1.08	0.00	0.00	0.00	0.00	0.75	0.09	0.00	0.00	0.00	0.00	1.89
34.90	0.05600	21.00	0.10	5.87	1.10	0.00	0.00	0.00	0.00	0.75	0.09	0.00	0.00	0.00	0.00	1.90
34.80	0.05600	21.00	0.10	5.88	1.10	0.00	0.00	0.00	0.00	0.75	0.09	0.00	0.00	0.00	0.00	1.90
34.70	0.05600	21.00	0.11	5.88	1.09	0.00	0.00	0.00	0.00	0.75	0.09	0.00	0.00	0.00	0.00	1.90
34.60	0.05600	21.00	0.11	5.86	1.05	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
34.50	0.05600	21.00	0.11	5.84	1.02	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
34.40	0.05600	21.00	0.11	5.83	0.98	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
34.30	0.05600	21.00	0.11	5.82	0.95	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
34.20	0.05600	21.00	0.11	5.82	0.92	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
34.10	0.05600	21.00	0.11	5.81	0.89	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
34.00	0.05600	21.00	0.11	5.81	0.86	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
33.90	0.05600	21.00	0.11	5.81	0.84	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
33.80	0.05600	21.00	0.11	5.81	0.81	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
33.70	0.05600	21.00	0.11	5.81	0.78	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
33.60	0.05600	21.00	0.11	5.81	0.76	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
33.50	0.05600	21.00	0.11	5.81	0.74	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
33.40	0.05600	21.00	0.11	5.82	0.72	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
33.30	0.05600	21.00	0.11	5.82	0.69	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
33.20	0.05600	21.00	0.11	5.82	0.67	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
33.10	0.05600	21.00	0.11	5.83	0.65	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
33.00	0.05600	21.00	0.11	5.83	0.64	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
32.90	0.05600	21.00	0.11	5.83	0.62	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
32.80	0.05600	21.00	0.11	5.84	0.60	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
32.70	0.05600	21.00	0.11	5.84	0.58	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
32.60	0.05600	21.00	0.11	5.84	0.57	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
32.50	0.05600	21.00	0.11	5.85	0.55	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
32.40	0.05600	21.00	0.11	5.85	0.54	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
32.30	0.05600	21.00	0.11	5.85	0.53	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
32.20	0.05600	21.00	0.11	5.85	0.51	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
32.10	0.05600	21.00	0.11	5.86	0.50	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
32.00	0.05600	21.00	0.11	5.86	0.49	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
31.90	0.05600	21.00	0.11	5.86	0.48	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
31.80	0.05600	21.00	0.11	5.87	0.46	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
31.70	0.05600	21.00	0.11	5.87	0.45	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
31.60	0.05600	21.00	0.11	5.87	0.44	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
31.50	0.05600	21.00	0.10	5.87	0.43	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
31.40	0.05600	21.00	0.10	5.87	0.42	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
31.30	0.05600	21.00	0.10	5.88	0.41	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
31.20	0.05600	21.00	0.10	5.88	0.41	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
31.10	0.05600	21.00	0.10	5.88	0.40	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
31.00	0.05600	21.00	0.10	5.88	0.39	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
30.90	0.05600	21.00	0.10	5.88	0.38	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
30.80	0.05600	21.00	0.10	5.89	0.37	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
30.70	0.05600	21.00	0.10	5.89	0.37	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
30.60	0.05600	21.00	0.10	5.89	0.36	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
30.50	0.05600	21.00	0.10	5.89	0.35	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
30.40	0.05600	21.00	0.10	5.89	0.35	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
30.30	0.05600	21.00	0.10	5.89	0.34	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
30.20	0.05600	21.00	0.10	5.89	0.34	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
30.10	0.05600	21.00	0.10	5.89	0.33	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
30.00	0.05600	21.00	0.10	5.90	0.33	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11

29.90	0.05600	21.00	0.10	5.90	0.33	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
29.80	0.05600	21.00	0.10	5.90	0.32	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
29.70	0.05600	21.00	0.10	5.90	0.32	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
29.60	0.05600	21.00	0.10	5.90	0.32	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
29.50	0.05600	21.00	0.10	5.90	0.32	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
29.40	0.05600	21.00	0.10	5.90	0.33	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
29.30	0.05600	21.00	0.10	5.90	0.33	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
29.20	0.05600	21.00	0.10	5.90	0.34	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
29.10	0.05600	21.00	0.10	5.89	0.35	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
29.00	0.05600	21.00	0.10	5.89	0.37	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
28.90	0.05600	21.00	0.10	5.89	0.40	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
28.80	0.05600	21.00	0.10	5.89	0.44	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
28.70	0.05600	21.00	0.10	5.89	0.49	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
28.60	0.05600	21.00	0.10	5.89	0.56	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
28.50	0.05600	21.00	0.10	5.89	0.65	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.11
28.40	0.05600	21.00	0.10	5.89	0.73	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	1.97
28.30	0.05600	21.00	0.10	5.90	0.80	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	1.97
28.20	0.05600	21.00	0.10	5.90	0.89	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	1.97
28.10	0.05600	21.00	0.10	5.91	0.99	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	1.97
28.00	0.05600	21.00	0.10	5.92	1.12	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	1.97
27.90	0.05600	21.00	0.10	5.94	1.27	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	1.97
27.80	0.05600	21.00	0.10	5.98	1.45	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	1.97
27.70	0.08400	21.00	0.10	6.03	1.67	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
27.60	0.08400	21.00	0.10	5.99	1.61	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
27.50	0.08400	21.00	0.10	5.96	1.55	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
27.40	0.08400	21.00	0.10	5.93	1.49	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
27.30	0.08400	21.00	0.10	5.91	1.43	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
27.20	0.08400	21.00	0.10	5.90	1.38	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
27.10	0.08400	21.00	0.10	5.89	1.33	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
27.00	0.08400	21.00	0.11	5.88	1.28	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
26.90	0.08400	21.00	0.11	5.88	1.23	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
26.80	0.08400	21.00	0.11	5.87	1.18	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
26.70	0.08400	21.00	0.11	5.87	1.14	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
26.60	0.08400	21.00	0.11	5.88	1.10	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
26.50	0.08400	21.00	0.11	5.88	1.06	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
26.40	0.08400	21.00	0.11	5.88	1.02	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
26.30	0.08400	21.00	0.11	5.89	0.99	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
26.20	0.08400	21.00	0.11	5.89	0.95	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
26.10	0.08400	21.00	0.11	5.90	0.92	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
26.00	0.08400	21.00	0.11	5.90	0.89	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
25.90	0.08400	21.00	0.11	5.91	0.86	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
25.80	0.08400	21.00	0.11	5.92	0.83	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
25.70	0.08400	21.00	0.11	5.92	0.80	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
25.60	0.08400	21.00	0.11	5.93	0.78	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
25.50	0.08400	21.00	0.11	5.94	0.75	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
25.40	0.08400	21.00	0.11	5.94	0.73	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
25.30	0.08400	21.00	0.11	5.95	0.71	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
25.20	0.08400	21.00	0.11	5.95	0.69	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
25.10	0.08400	21.00	0.11	5.96	0.67	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
25.00	0.08400	21.00	0.11	5.96	0.65	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
24.90	0.08400	21.00	0.11	5.97	0.63	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
24.80	0.08400	21.00	0.11	5.97	0.61	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
24.70	0.08400	21.00	0.11	5.98	0.60	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
24.60	0.08400	21.00	0.11	5.98	0.58	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
24.50	0.08400	21.00	0.11	5.99	0.57	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
24.40	0.08400	21.00	0.11	5.99	0.56	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97

24.30	0.08400	21.00	0.11	5.99	0.55	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
24.20	0.08400	21.00	0.12	6.00	0.54	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
24.10	0.08400	21.00	0.12	6.00	0.53	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
24.00	0.08400	21.00	0.12	6.00	0.53	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
23.90	0.08400	21.00	0.12	6.01	0.53	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
23.80	0.08400	21.00	0.12	6.01	0.53	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
23.70	0.08400	21.00	0.12	6.01	0.54	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
23.60	0.08400	21.00	0.12	6.01	0.55	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
23.50	0.08400	21.00	0.12	6.01	0.56	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
23.40	0.08400	21.00	0.12	6.02	0.59	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
23.30	0.08400	21.00	0.12	6.02	0.62	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
23.20	0.08400	21.00	0.12	6.03	0.66	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
23.10	0.08400	21.00	0.12	6.03	0.71	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
23.00	0.08400	21.00	0.12	6.05	0.78	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
22.90	0.08400	21.00	0.12	6.07	0.87	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	1.97
22.80	0.05600	21.00	0.12	6.09	0.99	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	1.97
22.70	0.05600	21.00	0.12	6.14	1.14	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
22.60	0.05600	21.00	0.12	6.18	1.28	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
22.50	0.05600	21.00	0.12	6.21	1.42	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
22.40	0.05600	21.00	0.12	6.23	1.56	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
22.30	0.05600	21.00	0.12	6.25	1.68	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
22.20	0.05600	21.00	0.12	6.26	1.80	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
22.10	0.05600	21.00	0.12	6.26	1.92	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
22.00	0.05600	21.00	0.12	6.27	2.03	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
21.90	0.05600	21.00	0.12	6.27	2.14	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
21.80	0.05600	21.00	0.12	6.27	2.24	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
21.70	0.05600	21.00	0.12	6.26	2.33	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
21.60	0.05600	21.00	0.12	6.26	2.42	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
21.50	0.05600	21.00	0.12	6.25	2.51	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
21.40	0.05600	21.00	0.12	6.24	2.60	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
21.30	0.05600	21.00	0.12	6.23	2.67	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
21.20	0.05600	21.00	0.12	6.22	2.75	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
21.10	0.05600	21.00	0.12	6.21	2.82	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
21.00	0.05600	21.00	0.12	6.21	2.89	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
20.90	0.05600	21.00	0.12	6.20	2.96	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
20.80	0.05600	21.00	0.12	6.19	3.02	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
20.70	0.05600	21.00	0.12	6.18	3.08	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
20.60	0.05600	21.00	0.12	6.17	3.14	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
20.50	0.05600	21.00	0.12	6.16	3.19	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
20.40	0.05600	21.00	0.12	6.15	3.25	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
20.30	0.05600	21.00	0.12	6.14	3.29	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
20.20	0.05600	21.00	0.12	6.13	3.34	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
20.10	0.05600	21.00	0.12	6.12	3.39	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
20.00	0.05600	21.00	0.12	6.12	3.43	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
19.90	0.05600	21.00	0.12	6.11	3.47	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
19.80	0.05600	21.00	0.12	6.10	3.51	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
19.70	0.05600	21.00	0.12	6.09	3.55	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
19.60	0.05600	21.00	0.12	6.09	3.59	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
19.50	0.05600	21.00	0.12	6.08	3.62	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
19.40	0.05600	21.00	0.12	6.07	3.66	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
19.30	0.05600	21.00	0.12	6.07	3.69	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
19.20	0.05600	21.00	0.12	6.06	3.72	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
19.10	0.05600	21.00	0.12	6.05	3.75	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
19.00	0.05600	21.00	0.12	6.05	3.78	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
18.90	0.05600	21.00	0.12	6.04	3.81	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
18.80	0.05600	21.00	0.12	6.03	3.84	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57

18.70	0.05600	21.00	0.12	6.03	3.87	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
18.60	0.05600	21.00	0.12	6.02	3.90	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
18.50	0.05600	21.00	0.12	6.02	3.93	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
18.40	0.05600	21.00	0.12	6.01	3.96	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
18.30	0.05600	21.00	0.12	6.00	3.99	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
18.20	0.05600	21.00	0.12	6.00	4.02	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
18.10	0.05600	21.00	0.12	5.99	4.05	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
18.00	0.05600	21.00	0.12	5.99	4.09	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
17.90	0.05600	21.00	0.12	5.98	4.12	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
17.80	0.05600	21.00	0.12	5.97	4.16	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
17.70	0.05600	21.00	0.12	5.96	4.21	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
17.60	0.05600	21.00	0.12	5.96	4.26	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
17.50	0.05600	21.00	0.12	5.95	4.32	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
17.40	0.05600	21.00	0.12	5.94	4.38	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
17.30	0.05600	21.00	0.12	5.93	4.46	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
17.20	0.05600	21.00	0.12	5.93	4.54	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
17.10	0.05600	21.00	0.12	5.92	4.64	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
17.00	0.05600	21.00	0.12	5.92	4.76	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
16.90	0.05600	21.00	0.12	5.91	4.89	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
16.80	0.05600	21.00	0.12	5.92	5.05	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
16.70	0.05600	21.00	0.12	5.93	5.23	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
16.60	0.05600	21.00	0.12	5.95	5.45	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
16.50	0.05600	21.00	0.12	5.99	5.71	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
16.40	0.05600	21.00	0.12	6.05	6.01	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
16.30	0.05600	21.00	0.12	6.14	6.38	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	1.57
16.20	0.05600	21.00	0.12	6.21	6.60	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
16.10	0.05600	21.00	0.12	6.26	6.75	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
16.00	0.08400	21.00	0.12	6.31	6.89	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
15.90	0.08400	21.00	0.12	6.31	7.03	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
15.80	0.08400	21.00	0.12	6.31	7.16	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
15.70	0.08400	21.00	0.12	6.31	7.29	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
15.60	0.08400	21.00	0.12	6.31	7.40	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
15.50	0.08400	21.00	0.12	6.31	7.52	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
15.40	0.08400	21.00	0.12	6.31	7.62	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
15.30	0.08400	21.00	0.12	6.31	7.72	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
15.20	0.08400	21.00	0.12	6.31	7.81	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
15.10	0.08400	21.00	0.12	6.31	7.89	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
15.00	0.08400	21.00	0.12	6.32	7.96	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
14.90	0.08400	21.00	0.12	6.33	8.03	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
14.80	0.08400	21.00	0.12	6.34	8.09	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	0.84
14.70	0.11200	21.00	0.12	6.35	8.14	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
14.60	0.11200	21.00	0.12	6.33	8.23	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
14.50	0.11200	21.00	0.12	6.31	8.31	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
14.40	0.11200	21.00	0.12	6.30	8.39	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
14.30	0.11200	21.00	0.12	6.29	8.47	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
14.20	0.11200	21.00	0.12	6.27	8.55	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
14.10	0.11200	21.00	0.12	6.26	8.62	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
14.00	0.11200	21.00	0.12	6.25	8.69	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
13.90	0.11200	21.00	0.12	6.24	8.75	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
13.80	0.11200	21.00	0.12	6.23	8.82	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
13.70	0.11200	21.00	0.12	6.23	8.88	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
13.60	0.11200	21.00	0.12	6.22	8.94	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
13.50	0.11200	21.00	0.12	6.21	9.00	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
13.40	0.11200	21.00	0.12	6.20	9.05	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
13.30	0.11200	21.00	0.12	6.20	9.11	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
13.20	0.11200	21.00	0.12	6.19	9.16	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84

13.10	0.11200	21.00	0.12	6.19	9.21	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
13.00	0.11200	21.00	0.12	6.18	9.26	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
12.90	0.11200	21.00	0.12	6.17	9.30	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
12.80	0.11200	21.00	0.12	6.17	9.35	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
12.70	0.11200	21.00	0.12	6.16	9.39	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
12.60	0.11200	21.00	0.12	6.16	9.44	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
12.50	0.11200	21.00	0.12	6.15	9.48	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
12.40	0.11200	21.00	0.12	6.15	9.52	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
12.30	0.11200	21.00	0.12	6.14	9.56	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
12.20	0.11200	21.00	0.12	6.14	9.59	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
12.10	0.11200	21.00	0.12	6.13	9.63	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
12.00	0.11200	21.00	0.12	6.13	9.67	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
11.90	0.11200	21.00	0.12	6.12	9.70	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
11.80	0.11200	21.00	0.12	6.12	9.73	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
11.70	0.11200	21.00	0.12	6.11	9.77	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
11.60	0.11200	21.00	0.12	6.11	9.80	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
11.50	0.11200	21.00	0.12	6.10	9.83	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
11.40	0.11200	21.00	0.12	6.10	9.87	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
11.30	0.11200	21.00	0.12	6.09	9.90	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
11.20	0.11200	21.00	0.12	6.09	9.93	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
11.10	0.11200	21.00	0.12	6.08	9.97	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
11.00	0.11200	21.00	0.12	6.08	10.00	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
10.90	0.11200	21.00	0.12	6.08	10.04	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
10.80	0.11200	21.00	0.12	6.07	10.07	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
10.70	0.11200	21.00	0.12	6.07	10.11	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
10.60	0.11200	21.00	0.12	6.07	10.15	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
10.50	0.11200	21.00	0.12	6.06	10.19	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
10.40	0.11200	21.00	0.12	6.06	10.24	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
10.30	0.11200	21.00	0.12	6.06	10.28	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
10.20	0.11200	21.00	0.12	6.06	10.33	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
10.10	0.11200	21.00	0.12	6.07	10.39	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
10.00	0.11200	21.00	0.12	6.07	10.45	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
9.90	0.11200	21.00	0.12	6.08	10.52	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
9.80	0.11200	21.00	0.12	6.09	10.59	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	0.84
9.70	0.11200	21.00	0.12	6.11	10.65	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
9.60	0.11200	21.00	0.12	6.12	10.71	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
9.50	0.11200	21.00	0.12	6.12	10.76	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
9.40	0.11200	21.00	0.12	6.13	10.82	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
9.30	0.11200	21.00	0.12	6.14	10.87	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
9.20	0.11200	21.00	0.12	6.14	10.91	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
9.10	0.11200	21.00	0.12	6.14	10.96	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
9.00	0.11200	21.00	0.12	6.14	11.00	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
8.90	0.11200	21.00	0.12	6.14	11.05	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
8.80	0.11200	21.00	0.12	6.14	11.09	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
8.70	0.11200	21.00	0.12	6.14	11.12	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
8.60	0.11200	21.00	0.12	6.14	11.16	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
8.50	0.11200	21.00	0.12	6.14	11.20	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
8.40	0.11200	21.00	0.12	6.13	11.23	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
8.30	0.11200	21.00	0.12	6.13	11.27	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
8.20	0.11200	21.00	0.12	6.13	11.30	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
8.10	0.11200	21.00	0.12	6.12	11.33	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
8.00	0.11200	21.00	0.12	6.12	11.36	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
7.90	0.11200	21.00	0.12	6.12	11.39	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
7.80	0.11200	21.00	0.12	6.11	11.41	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
7.70	0.11200	21.00	0.12	6.11	11.44	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
7.60	0.11200	21.00	0.12	6.11	11.46	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52

7.50	0.11200	21.00	0.12	6.10	11.49	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
7.40	0.11200	21.00	0.12	6.10	11.51	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
7.30	0.11200	21.00	0.12	6.10	11.53	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
7.20	0.11200	21.00	0.12	6.09	11.55	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
7.10	0.11200	21.00	0.12	6.09	11.57	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
7.00	0.11200	21.00	0.12	6.09	11.59	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
6.90	0.11200	21.00	0.12	6.08	11.61	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
6.80	0.11200	21.00	0.12	6.08	11.63	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
6.70	0.11200	21.00	0.12	6.08	11.65	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
6.60	0.11200	21.00	0.12	6.07	11.66	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
6.50	0.11200	21.00	0.12	6.07	11.68	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
6.40	0.11200	21.00	0.12	6.07	11.70	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
6.30	0.11200	21.00	0.12	6.06	11.71	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
6.20	0.11200	21.00	0.12	6.06	11.72	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
6.10	0.11200	21.00	0.12	6.06	11.74	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
6.00	0.11200	21.00	0.12	6.06	11.75	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
5.90	0.11200	21.00	0.12	6.05	11.76	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
5.80	0.11200	21.00	0.11	6.05	11.77	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
5.70	0.11200	21.00	0.11	6.05	11.78	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
5.60	0.11200	21.00	0.11	6.05	11.79	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
5.50	0.11200	21.00	0.11	6.05	11.80	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
5.40	0.11200	21.00	0.11	6.04	11.81	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
5.30	0.11200	21.00	0.11	6.04	11.82	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
5.20	0.11200	21.00	0.11	6.04	11.83	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
5.10	0.11200	21.00	0.11	6.04	11.84	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
5.00	0.11200	21.00	0.11	6.04	11.84	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
4.90	0.11200	21.00	0.11	6.04	11.85	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
4.80	0.11200	21.00	0.11	6.03	11.85	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
4.70	0.11200	21.00	0.11	6.03	11.86	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
4.60	0.11200	21.00	0.11	6.03	11.86	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
4.50	0.11200	21.00	0.11	6.03	11.87	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
4.40	0.11200	21.00	0.11	6.03	11.87	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
4.30	0.11200	21.00	0.11	6.03	11.87	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
4.20	0.11200	21.00	0.11	6.03	11.87	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
4.10	0.11200	21.00	0.11	6.03	11.87	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
4.00	0.11200	21.00	0.11	6.03	11.87	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
3.90	0.11200	21.00	0.11	6.03	11.87	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
3.80	0.11200	21.00	0.11	6.03	11.87	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
3.70	0.11200	21.00	0.11	6.03	11.86	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
3.60	0.11200	21.00	0.11	6.03	11.86	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
3.50	0.11200	21.00	0.11	6.03	11.85	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
3.40	0.11200	21.00	0.11	6.03	11.84	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
3.30	0.11200	21.00	0.11	6.03	11.84	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
3.20	0.11200	21.00	0.11	6.03	11.82	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
3.10	0.11200	21.00	0.11	6.04	11.81	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
3.00	0.11200	21.00	0.11	6.04	11.80	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
2.90	0.11200	21.00	0.11	6.04	11.78	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
2.80	0.11200	21.00	0.11	6.04	11.76	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
2.70	0.11200	21.00	0.11	6.04	11.74	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
2.60	0.11200	21.00	0.11	6.05	11.71	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
2.50	0.11200	21.00	0.11	6.05	11.68	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
2.40	0.11200	21.00	0.11	6.06	11.65	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
2.30	0.11200	21.00	0.11	6.06	11.61	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
2.20	0.11200	21.00	0.11	6.07	11.56	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
2.10	0.11200	21.00	0.11	6.07	11.52	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
2.00	0.11200	21.00	0.11	6.08	11.46	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52

1.90	0.11200	21.00	0.10	6.09	11.40	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
1.80	0.11200	21.00	0.10	6.10	11.33	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
1.70	0.11200	21.00	0.10	6.11	11.26	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
1.60	0.11200	21.00	0.10	6.12	11.17	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
1.50	0.11200	21.00	0.10	6.14	11.08	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
1.40	0.11200	21.00	0.10	6.16	10.97	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
1.30	0.11200	21.00	0.10	6.18	10.85	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
1.20	0.11200	21.00	0.10	6.21	10.72	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
1.10	0.11200	21.00	0.10	6.24	10.57	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
1.00	0.11200	21.00	0.10	6.28	10.40	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
0.90	0.11200	21.00	0.10	6.33	10.21	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
0.80	0.11200	21.00	0.10	6.39	10.01	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
0.70	0.11200	21.00	0.10	6.47	9.77	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
0.60	0.11200	21.00	0.10	6.56	9.51	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
0.50	0.11200	21.00	0.10	6.67	9.23	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
0.40	0.11200	21.00	0.10	6.82	8.90	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
0.30	0.11200	21.00	0.10	6.99	8.54	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
0.20	0.11200	21.00	0.10	7.21	8.14	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
0.10	0.11200	21.00	0.10	7.48	7.70	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52
0.00	0.11200	21.00	0.10	7.82	7.20	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.52

CONDENSED CAPSULE SUMMARY FOR Bayou Verret

DIST km	FLOW m^3/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 $g/m^2/d$
HDWTR	0.02800	21.00	0.25	8.03	7.30	0.00	0.00	0.00	0.00							
3.10	0.02800	21.00	0.19	6.18	5.43	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
3.00	0.02800	21.00	0.19	5.97	5.15	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
2.90	0.02800	21.00	0.18	5.81	4.89	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
2.80	0.02800	21.00	0.18	5.70	4.64	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
2.70	0.02800	21.00	0.18	5.63	4.40	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
2.60	0.02800	21.00	0.17	5.57	4.18	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
2.50	0.02800	21.00	0.17	5.54	3.97	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
2.40	0.02800	21.00	0.16	5.52	3.77	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
2.30	0.02800	21.00	0.16	5.51	3.57	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
2.20	0.02800	21.00	0.16	5.50	3.39	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
2.10	0.02800	21.00	0.15	5.50	3.22	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
2.00	0.02800	21.00	0.15	5.51	3.06	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
1.90	0.02800	21.00	0.15	5.52	2.90	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
1.80	0.02800	21.00	0.14	5.53	2.75	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
1.70	0.02800	21.00	0.14	5.54	2.61	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
1.60	0.02800	21.00	0.13	5.56	2.48	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
1.50	0.02800	21.00	0.13	5.57	2.36	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
1.40	0.02800	21.00	0.13	5.58	2.24	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
1.30	0.02800	21.00	0.12	5.60	2.12	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
1.20	0.02800	21.00	0.12	5.61	2.01	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
1.10	0.02800	21.00	0.12	5.62	1.91	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
1.00	0.02800	21.00	0.11	5.64	1.81	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
0.90	0.02800	21.00	0.11	5.65	1.72	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
0.80	0.02800	21.00	0.11	5.66	1.63	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
0.70	0.02800	21.00	0.10	5.67	1.55	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
0.60	0.02800	21.00	0.10	5.68	1.47	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
0.50	0.02800	21.00	0.09	5.70	1.40	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13

0.40	0.02800	21.00	0.09	5.71	1.33	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
0.30	0.02800	21.00	0.09	5.72	1.26	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
0.20	0.02800	21.00	0.08	5.74	1.19	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
0.10	0.02800	21.00	0.08	5.76	1.13	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13
0.00	0.02800	21.00	0.08	5.78	1.07	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.13

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 1 Baker Canal East WINTER Projection No Man Made Loads (Natural Conditions)

********** 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	0.02800	21.00	0.07	9.30	172.00	8.03	4.90	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.10

********** 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	38.30	38.20	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
2	38.20	38.10	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
3	38.10	38.00	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
4	38.00	37.90	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
5	37.90	37.80	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
6	37.80	37.70	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
7	37.70	37.60	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
8	37.60	37.50	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
9	37.50	37.40	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
10	37.40	37.30	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
11	37.30	37.20	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
12	37.20	37.10	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
13	37.10	37.00	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
14	37.00	36.90	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
15	36.90	36.80	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
16	36.80	36.70	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
17	36.70	36.60	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
18	36.60	36.50	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
19	36.50	36.40	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
20	36.40	36.30	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
21	36.30	36.20	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
22	36.20	36.10	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
23	36.10	36.00	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
24	36.00	35.90	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
25	35.90	35.80	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
26	35.80	35.70	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
27	35.70	35.60	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
28	35.60	35.50	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
29	35.50	35.40	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
30	35.40	35.30	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
31	35.30	35.20	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
TOT						32.68			79056.80	84103.00					
AVG					0.00110		0.94	27.13			25.50				
CUM						32.68									

********** 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	38.200	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
2	38.100	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
3	38.000	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
4	37.900	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
5	37.800	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
6	37.700	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
7	37.600	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00

8	37.500	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
9	37.400	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
10	37.300	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
11	37.200	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
12	37.100	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
13	37.000	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
14	36.900	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
15	36.800	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
16	36.700	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
17	36.600	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
18	36.500	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
19	36.400	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
20	36.300	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
21	36.200	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
22	36.100	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
23	36.000	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
24	35.900	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
25	35.800	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
26	35.700	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
27	35.600	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
28	35.500	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
29	35.400	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
30	35.300	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
31	35.200	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
AVG 20 DEG C RATE			0.72	0.09	0.00	0.00	0.00	0.00	0.00	2.00			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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	38.200	21.00	0.08	10.00	176.15	5.98	3.08	0.00	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.41
2	38.100	21.00	0.08	10.09	176.67	5.81	2.89	0.00	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.24
3	38.000	21.00	0.08	10.19	177.26	5.69	2.71	0.00	2.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.07
4	37.900	21.00	0.08	10.30	177.93	5.60	2.54	0.00	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.92
5	37.800	21.00	0.08	10.42	178.67	5.54	2.38	0.00	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.78
6	37.700	21.00	0.08	10.56	179.52	5.51	2.24	0.00	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.65
7	37.600	21.00	0.08	10.72	180.46	5.48	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
8	37.500	21.00	0.08	10.90	181.53	5.47	1.97	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.42
9	37.400	21.00	0.08	11.11	182.74	5.47	1.85	0.00	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
10	37.300	21.00	0.08	11.33	184.09	5.47	1.74	0.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.22
11	37.200	21.00	0.08	11.59	185.62	5.48	1.63	0.00	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.13
12	37.100	21.00	0.08	11.88	187.34	5.49	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.05
13	37.000	21.00	0.08	12.21	189.27	5.50	1.44	0.00	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.97
14	36.900	21.00	0.08	12.57	191.45	5.52	1.36	0.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90
15	36.800	21.00	0.08	12.99	193.91	5.53	1.28	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
16	36.700	21.00	0.08	13.45	196.67	5.55	1.21	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.78
17	36.600	21.00	0.08	13.98	199.78	5.56	1.14	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
18	36.500	21.00	0.08	14.57	203.29	5.58	1.08	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.67
19	36.400	21.00	0.08	15.23	207.24	5.59	1.03	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.62
20	36.300	21.00	0.08	15.98	211.68	5.60	0.98	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
21	36.200	21.00	0.08	16.82	216.69	5.62	0.94	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53

22	36.100	21.00	0.08	17.77	222.33	5.63	0.90	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.49
23	36.000	21.00	0.08	18.84	228.69	5.64	0.87	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
24	35.900	21.00	0.08	20.04	235.84	5.65	0.85	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.42
25	35.800	21.00	0.08	21.40	243.90	5.66	0.83	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
26	35.700	21.00	0.08	22.93	252.97	5.67	0.83	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.37
27	35.600	21.00	0.08	24.64	263.19	5.68	0.83	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
28	35.500	21.00	0.08	26.58	274.69	5.70	0.85	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.32
29	35.400	21.00	0.08	28.76	287.65	5.71	0.87	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
30	35.300	21.00	0.08	31.22	302.25	5.73	0.92	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.27
31	35.200	21.00	0.08	33.98	318.69	5.76	0.97	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 3 Bayou Citamon WINTER Projection No Man Made Loads (Natural Conditions)

********** 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
64	UPR RCH	0.02800	21.00	0.08	33.98	318.69	5.76	0.97	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
64	TRIB	0.02800	21.00	0.08	38.68	346.61	5.78	1.07	0.00	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23

********** 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
64	35.20	35.10	0.05600	0.0	0.00220	0.53	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.002
65	35.10	35.00	0.05600	0.0	0.00220	0.53	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.002
66	35.00	34.90	0.05600	0.0	0.00220	0.53	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.002
67	34.90	34.80	0.05600	0.0	0.00220	0.53	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.002
68	34.80	34.70	0.05600	0.0	0.00220	0.53	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.002
TOT						2.64			12751.10	13565.00					
AVG					0.00220		0.94	27.13			25.50				
CUM						35.31									

********** 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
64	35.100	8.91	0.75	0.09	0.00	0.00	0.00	0.00	0.00	1.90	1.90	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
65	35.000	8.91	0.75	0.09	0.00	0.00	0.00	0.00	0.00	1.90	1.90	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
66	34.900	8.91	0.75	0.09	0.00	0.00	0.00	0.00	0.00	1.90	1.90	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
67	34.800	8.91	0.75	0.09	0.00	0.00	0.00	0.00	0.00	1.90	1.90	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
68	34.700	8.91	0.75	0.09	0.00	0.00	0.00	0.00	0.00	1.90	1.90	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
AVG 20 DEG C RATE			0.74	0.09	0.00	0.00	0.00	0.00	0.00	1.78			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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
64	35.100	21.00	0.08	37.10	337.20	5.80	1.05	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
65	35.000	21.00	0.09	37.10	337.20	5.84	1.08	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.22
66	34.900	21.00	0.10	37.10	337.20	5.87	1.10	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.21
67	34.800	21.00	0.10	37.10	337.20	5.88	1.10	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
68	34.700	21.00	0.11	37.10	337.20	5.88	1.09	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.19

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 4 Bayou Citamon WINTER Projection No Man Made Loads (Natural Conditions)

********** 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
69	UPR RCH	0.05600	21.00	0.11	37.10	337.20	5.88	1.09	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19

********** 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
69	34.70	34.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
70	34.60	34.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
71	34.50	34.40	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
72	34.40	34.30	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
73	34.30	34.20	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
74	34.20	34.10	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
75	34.10	34.00	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
76	34.00	33.90	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
77	33.90	33.80	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002

78	33.80	33.70	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
79	33.70	33.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
80	33.60	33.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
81	33.50	33.40	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
82	33.40	33.30	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
83	33.30	33.20	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
84	33.20	33.10	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
85	33.10	33.00	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
86	33.00	32.90	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
87	32.90	32.80	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
88	32.80	32.70	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
89	32.70	32.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
90	32.60	32.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
91	32.50	32.40	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
92	32.40	32.30	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
93	32.30	32.20	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
94	32.20	32.10	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
95	32.10	32.00	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
96	32.00	31.90	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
97	31.90	31.80	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
98	31.80	31.70	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
99	31.70	31.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
100	31.60	31.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
101	31.50	31.40	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
102	31.40	31.30	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
103	31.30	31.20	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
104	31.20	31.10	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
105	31.10	31.00	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
106	31.00	30.90	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
107	30.90	30.80	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
108	30.80	30.70	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
109	30.70	30.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
110	30.60	30.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
111	30.50	30.40	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
112	30.40	30.30	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
113	30.30	30.20	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
114	30.20	30.10	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
115	30.10	30.00	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
116	30.00	29.90	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
117	29.90	29.80	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
118	29.80	29.70	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
119	29.70	29.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
120	29.60	29.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
121	29.50	29.40	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
122	29.40	29.30	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
123	29.30	29.20	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
124	29.20	29.10	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
125	29.10	29.00	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
126	29.00	28.90	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
127	28.90	28.80	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
128	28.80	28.70	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
129	28.70	28.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
130	28.60	28.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
TOT						29.24			141469.11	136028.00					
AVG					0.00245		1.04	21.94			22.82				

CUM 64.55

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
69	34.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
70	34.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
71	34.400	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
72	34.300	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
73	34.200	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
74	34.100	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
75	34.000	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
76	33.900	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
77	33.800	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
78	33.700	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
79	33.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
80	33.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
81	33.400	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
82	33.300	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
83	33.200	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
84	33.100	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
85	33.000	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
86	32.900	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
87	32.800	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
88	32.700	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
89	32.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
90	32.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
91	32.400	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
92	32.300	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
93	32.200	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
94	32.100	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
95	32.000	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
96	31.900	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
97	31.800	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
98	31.700	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
99	31.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
100	31.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
101	31.400	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
102	31.300	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
103	31.200	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
104	31.100	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
105	31.000	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
106	30.900	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
107	30.800	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
108	30.700	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
109	30.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
110	30.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
111	30.400	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
112	30.300	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
113	30.200	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
114	30.100	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
115	30.000	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00

116	29.900	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
117	29.800	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
118	29.700	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
119	29.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
120	29.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
121	29.400	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
122	29.300	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
123	29.200	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
124	29.100	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
125	29.000	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
126	28.900	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
127	28.800	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
128	28.700	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
129	28.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
130	28.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
AVG 20 DEG C RATE			0.67	0.10	0.00	0.00	0.00	0.00	0.00	1.98			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.19	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
69	34.600	21.00	0.11	37.10	337.20	5.86	1.05	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.17
70	34.500	21.00	0.11	37.10	337.20	5.84	1.02	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.16
71	34.400	21.00	0.11	37.10	337.20	5.83	0.98	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.15
72	34.300	21.00	0.11	37.10	337.20	5.82	0.95	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.14
73	34.200	21.00	0.11	37.10	337.20	5.82	0.92	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.13
74	34.100	21.00	0.11	37.10	337.20	5.81	0.89	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12
75	34.000	21.00	0.11	37.10	337.20	5.81	0.86	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.11
76	33.900	21.00	0.11	37.10	337.20	5.81	0.84	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
77	33.800	21.00	0.11	37.10	337.20	5.81	0.81	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
78	33.700	21.00	0.11	37.10	337.20	5.81	0.78	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09
79	33.600	21.00	0.11	37.10	337.20	5.81	0.76	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
80	33.500	21.00	0.11	37.10	337.20	5.81	0.74	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
81	33.400	21.00	0.11	37.10	337.20	5.82	0.72	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
82	33.300	21.00	0.11	37.10	337.20	5.82	0.69	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
83	33.200	21.00	0.11	37.10	337.20	5.82	0.67	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
84	33.100	21.00	0.11	37.10	337.20	5.83	0.65	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
85	33.000	21.00	0.11	37.10	337.20	5.83	0.64	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
86	32.900	21.00	0.11	37.10	337.20	5.83	0.62	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
87	32.800	21.00	0.11	37.10	337.20	5.84	0.60	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
88	32.700	21.00	0.11	37.10	337.20	5.84	0.58	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
89	32.600	21.00	0.11	37.10	337.20	5.84	0.57	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
90	32.500	21.00	0.11	37.10	337.20	5.85	0.55	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
91	32.400	21.00	0.11	37.10	337.20	5.85	0.54	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
92	32.300	21.00	0.11	37.10	337.20	5.85	0.53	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
93	32.200	21.00	0.11	37.10	337.20	5.85	0.51	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
94	32.100	21.00	0.11	37.10	337.20	5.86	0.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
95	32.000	21.00	0.11	37.10	337.20	5.86	0.49	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
96	31.900	21.00	0.11	37.10	337.20	5.86	0.48	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
97	31.800	21.00	0.11	37.10	337.20	5.87	0.46	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
98	31.700	21.00	0.11	37.10	337.20	5.87	0.45	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02

99	31.600	21.00	0.11	37.10	337.19	5.87	0.44	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
100	31.500	21.00	0.10	37.10	337.19	5.87	0.43	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
101	31.400	21.00	0.10	37.10	337.19	5.87	0.42	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
102	31.300	21.00	0.10	37.10	337.19	5.88	0.41	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
103	31.200	21.00	0.10	37.10	337.18	5.88	0.41	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
104	31.100	21.00	0.10	37.10	337.18	5.88	0.40	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
105	31.000	21.00	0.10	37.10	337.17	5.88	0.39	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
106	30.900	21.00	0.10	37.10	337.17	5.88	0.38	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
107	30.800	21.00	0.10	37.10	337.16	5.89	0.37	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
108	30.700	21.00	0.10	37.10	337.14	5.89	0.37	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
109	30.600	21.00	0.10	37.09	337.13	5.89	0.36	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
110	30.500	21.00	0.10	37.09	337.11	5.89	0.35	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
111	30.400	21.00	0.10	37.09	337.08	5.89	0.35	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
112	30.300	21.00	0.10	37.09	337.05	5.89	0.34	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
113	30.200	21.00	0.10	37.09	337.01	5.89	0.34	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
114	30.100	21.00	0.10	37.08	336.95	5.89	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
115	30.000	21.00	0.10	37.08	336.88	5.90	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
116	29.900	21.00	0.10	37.07	336.79	5.90	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
117	29.800	21.00	0.10	37.06	336.68	5.90	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
118	29.700	21.00	0.10	37.05	336.53	5.90	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
119	29.600	21.00	0.10	37.04	336.34	5.90	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
120	29.500	21.00	0.10	37.02	336.10	5.90	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
121	29.400	21.00	0.10	36.99	335.79	5.90	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
122	29.300	21.00	0.10	36.96	335.39	5.90	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
123	29.200	21.00	0.10	36.93	334.88	5.90	0.34	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
124	29.100	21.00	0.10	36.88	334.23	5.89	0.35	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
125	29.000	21.00	0.10	36.81	333.39	5.89	0.37	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
126	28.900	21.00	0.10	36.73	332.32	5.89	0.40	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
127	28.800	21.00	0.10	36.63	330.94	5.89	0.44	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
128	28.700	21.00	0.10	36.50	329.17	5.89	0.49	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
129	28.600	21.00	0.10	36.33	326.91	5.89	0.56	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
130	28.500	21.00	0.10	36.11	324.01	5.89	0.65	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08

********** 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
131	UPR RCH	0.05600	21.00	0.10	36.11	324.01	5.89	0.65	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
138	WSTLD	0.02800	25.64	0.11	29.10	230.60	8.03	6.89	0.00	6.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.11
187	WSTLD	-0.02800	21.00	0.12	34.43	301.66	6.09	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

********** 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
131	28.50	28.40	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
132	28.40	28.30	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
133	28.30	28.20	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
134	28.20	28.10	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
135	28.10	28.00	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
136	28.00	27.90	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
137	27.90	27.80	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
138	27.80	27.70	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
139	27.70	27.60	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
140	27.60	27.50	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
141	27.50	27.40	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
142	27.40	27.30	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
143	27.30	27.20	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
144	27.20	27.10	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
145	27.10	27.00	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
146	27.00	26.90	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
147	26.90	26.80	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
148	26.80	26.70	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
149	26.70	26.60	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
150	26.60	26.50	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
151	26.50	26.40	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
152	26.40	26.30	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
153	26.30	26.20	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
154	26.20	26.10	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
155	26.10	26.00	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
156	26.00	25.90	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
157	25.90	25.80	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
158	25.80	25.70	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
159	25.70	25.60	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
160	25.60	25.50	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
161	25.50	25.40	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
162	25.40	25.30	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
163	25.30	25.20	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
164	25.20	25.10	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
165	25.10	25.00	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
166	25.00	24.90	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002

167	24.90	24.80	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
168	24.80	24.70	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
169	24.70	24.60	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
170	24.60	24.50	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
171	24.50	24.40	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
172	24.40	24.30	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
173	24.30	24.20	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
174	24.20	24.10	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
175	24.10	24.00	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
176	24.00	23.90	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
177	23.90	23.80	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
178	23.80	23.70	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
179	23.70	23.60	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
180	23.60	23.50	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
181	23.50	23.40	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
182	23.40	23.30	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
183	23.30	23.20	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
184	23.20	23.10	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
185	23.10	23.00	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
186	23.00	22.90	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
187	22.90	22.80	0.05600	33.3	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
TOT						33.37			226325.42	175446.00					
AVG					0.00198		1.29	30.78			39.71				
CUM						97.93									

********** 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
131	28.400	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
132	28.300	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
133	28.200	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
134	28.100	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
135	28.000	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
136	27.900	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
137	27.800	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
138	27.700	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
139	27.600	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
140	27.500	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
141	27.400	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
142	27.300	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
143	27.200	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
144	27.100	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
145	27.000	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
146	26.900	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
147	26.800	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
148	26.700	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
149	26.600	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
150	26.500	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
151	26.400	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
152	26.300	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
153	26.200	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00

154	26.100	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
155	26.000	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
156	25.900	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
157	25.800	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
158	25.700	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
159	25.600	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
160	25.500	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
161	25.400	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
162	25.300	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
163	25.200	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
164	25.100	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
165	25.000	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
166	24.900	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
167	24.800	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
168	24.700	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
169	24.600	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
170	24.500	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
171	24.400	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
172	24.300	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
173	24.200	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
174	24.100	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
175	24.000	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
176	23.900	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
177	23.800	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
178	23.700	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
179	23.600	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
180	23.500	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
181	23.400	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
182	23.300	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
183	23.200	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
184	23.100	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
185	23.000	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
186	22.900	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
187	22.800	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	1.97	1.97	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
AVG 20 DEG C RATE			0.54	0.10	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	0.19	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
131	28.400	21.00	0.10	35.94	321.71	5.89	0.73	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
132	28.300	21.00	0.10	35.79	319.76	5.90	0.80	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12
133	28.200	21.00	0.10	35.63	317.56	5.90	0.89	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.14
134	28.100	21.00	0.10	35.44	315.09	5.91	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.17
135	28.000	21.00	0.10	35.23	312.31	5.92	1.12	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
136	27.900	21.00	0.10	35.00	309.17	5.94	1.27	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
137	27.800	21.00	0.10	34.73	305.64	5.98	1.45	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.30
138	27.700	21.00	0.10	34.43	301.67	6.03	1.67	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.36
139	27.600	21.00	0.10	34.43	301.67	5.99	1.61	0.00	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
140	27.500	21.00	0.10	34.43	301.67	5.96	1.55	0.00	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.31
141	27.400	21.00	0.10	34.43	301.67	5.93	1.49	0.00	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29

142	27.300	21.00	0.10	34.43	301.67	5.91	1.43	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.27
143	27.200	21.00	0.10	34.43	301.67	5.90	1.38	0.00	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
144	27.100	21.00	0.10	34.43	301.67	5.89	1.33	0.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.23
145	27.000	21.00	0.11	34.43	301.67	5.88	1.28	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.21
146	26.900	21.00	0.11	34.43	301.67	5.88	1.23	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
147	26.800	21.00	0.11	34.43	301.67	5.87	1.18	0.00	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.18
148	26.700	21.00	0.11	34.43	301.67	5.87	1.14	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.17
149	26.600	21.00	0.11	34.43	301.67	5.88	1.10	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.16
150	26.500	21.00	0.11	34.43	301.67	5.88	1.06	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.14
151	26.400	21.00	0.11	34.43	301.67	5.88	1.02	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.13
152	26.300	21.00	0.11	34.43	301.67	5.89	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12
153	26.200	21.00	0.11	34.43	301.67	5.89	0.95	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.11
154	26.100	21.00	0.11	34.43	301.67	5.90	0.92	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.11
155	26.000	21.00	0.11	34.43	301.67	5.90	0.89	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
156	25.900	21.00	0.11	34.43	301.67	5.91	0.86	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09
157	25.800	21.00	0.11	34.43	301.67	5.92	0.83	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
158	25.700	21.00	0.11	34.43	301.67	5.92	0.80	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
159	25.600	21.00	0.11	34.43	301.67	5.93	0.78	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
160	25.500	21.00	0.11	34.43	301.67	5.94	0.75	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
161	25.400	21.00	0.11	34.43	301.67	5.94	0.73	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
162	25.300	21.00	0.11	34.43	301.67	5.95	0.71	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
163	25.200	21.00	0.11	34.43	301.67	5.95	0.69	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
164	25.100	21.00	0.11	34.43	301.67	5.96	0.67	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
165	25.000	21.00	0.11	34.43	301.67	5.96	0.65	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
166	24.900	21.00	0.11	34.43	301.67	5.97	0.63	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
167	24.800	21.00	0.11	34.43	301.67	5.97	0.61	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
168	24.700	21.00	0.11	34.43	301.67	5.98	0.60	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
169	24.600	21.00	0.11	34.43	301.67	5.98	0.58	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
170	24.500	21.00	0.11	34.43	301.67	5.99	0.57	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
171	24.400	21.00	0.11	34.43	301.67	5.99	0.56	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
172	24.300	21.00	0.11	34.43	301.67	5.99	0.55	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
173	24.200	21.00	0.12	34.43	301.67	6.00	0.54	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
174	24.100	21.00	0.12	34.43	301.67	6.00	0.53	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
175	24.000	21.00	0.12	34.43	301.67	6.00	0.53	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
176	23.900	21.00	0.12	34.43	301.67	6.01	0.53	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
177	23.800	21.00	0.12	34.43	301.67	6.01	0.53	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
178	23.700	21.00	0.12	34.43	301.67	6.01	0.54	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
179	23.600	21.00	0.12	34.43	301.67	6.01	0.55	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
180	23.500	21.00	0.12	34.43	301.67	6.01	0.56	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
181	23.400	21.00	0.12	34.43	301.67	6.02	0.59	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
182	23.300	21.00	0.12	34.43	301.67	6.02	0.62	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
183	23.200	21.00	0.12	34.43	301.67	6.03	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
184	23.100	21.00	0.12	34.43	301.67	6.03	0.71	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
185	23.000	21.00	0.12	34.43	301.66	6.05	0.78	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
186	22.900	21.00	0.12	34.43	301.66	6.07	0.87	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
187	22.800	21.00	0.12	34.43	301.66	6.09	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 6 Bayou Chevreuil WINTER Projection No Man Made Loads (Natural Conditions)

********** 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

188	UPR RCH	0.05600	21.00	0.12	34.43	301.66	6.09	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

********** 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
188	22.80	22.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
189	22.70	22.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
190	22.60	22.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
191	22.50	22.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
192	22.40	22.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
193	22.30	22.20	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
194	22.20	22.10	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
195	22.10	22.00	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
196	22.00	21.90	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
197	21.90	21.80	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
198	21.80	21.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
199	21.70	21.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
200	21.60	21.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
201	21.50	21.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
202	21.40	21.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
203	21.30	21.20	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
204	21.20	21.10	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
205	21.10	21.00	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
206	21.00	20.90	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
207	20.90	20.80	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
208	20.80	20.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
209	20.70	20.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
210	20.60	20.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
211	20.50	20.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
212	20.40	20.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
213	20.30	20.20	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
214	20.20	20.10	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
215	20.10	20.00	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
216	20.00	19.90	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
217	19.90	19.80	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
218	19.80	19.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
219	19.70	19.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
220	19.60	19.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
221	19.50	19.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
222	19.40	19.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
223	19.30	19.20	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
224	19.20	19.10	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
225	19.10	19.00	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
226	19.00	18.90	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
227	18.90	18.80	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
228	18.80	18.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
229	18.70	18.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
230	18.60	18.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
231	18.50	18.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
232	18.40	18.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
233	18.30	18.20	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002

234	18.20	18.10	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
235	18.10	18.00	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
236	18.00	17.90	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
237	17.90	17.80	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
238	17.80	17.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
239	17.70	17.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
240	17.60	17.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
241	17.50	17.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
242	17.40	17.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
243	17.30	17.20	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
244	17.20	17.10	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
245	17.10	17.00	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
246	17.00	16.90	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
247	16.90	16.80	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
248	16.80	16.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
249	16.70	16.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
250	16.60	16.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
251	16.50	16.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
252	16.40	16.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
TOT						40.24			194688.12	166400.00					
AVG					0.00187		1.17	25.60			29.95				
CUM						138.16									

********** 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
188	22.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
189	22.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
190	22.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
191	22.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
192	22.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
193	22.200	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
194	22.100	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
195	22.000	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
196	21.900	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
197	21.800	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
198	21.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
199	21.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
200	21.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
201	21.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
202	21.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
203	21.200	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
204	21.100	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
205	21.000	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
206	20.900	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
207	20.800	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
208	20.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
209	20.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
210	20.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
211	20.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
212	20.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00

213	20.200	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
214	20.100	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
215	20.000	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
216	19.900	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
217	19.800	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
218	19.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
219	19.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
220	19.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
221	19.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
222	19.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
223	19.200	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
224	19.100	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
225	19.000	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
226	18.900	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
227	18.800	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
228	18.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
229	18.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
230	18.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
231	18.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
232	18.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
233	18.200	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
234	18.100	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
235	18.000	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
236	17.900	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
237	17.800	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
238	17.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
239	17.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
240	17.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
241	17.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
242	17.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
243	17.200	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
244	17.100	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
245	17.000	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
246	16.900	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
247	16.800	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
248	16.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
249	16.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
250	16.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
251	16.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
252	16.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
AVG 20 DEG C RATE			0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.47			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.19	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
188	22.700	21.00	0.12	34.43	301.66	6.14	1.14	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
189	22.600	21.00	0.12	34.43	301.66	6.18	1.28	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
190	22.500	21.00	0.12	34.43	301.66	6.21	1.42	0.00	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
191	22.400	21.00	0.12	34.43	301.66	6.23	1.56	0.00	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
192	22.300	21.00	0.12	34.43	301.66	6.25	1.68	0.00	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01

193	22.200	21.00	0.12	34.43	301.66	6.26	1.80	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
194	22.100	21.00	0.12	34.43	301.66	6.26	1.92	0.00	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
195	22.000	21.00	0.12	34.43	301.66	6.27	2.03	0.00	2.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
196	21.900	21.00	0.12	34.43	301.66	6.27	2.14	0.00	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
197	21.800	21.00	0.12	34.43	301.65	6.27	2.24	0.00	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
198	21.700	21.00	0.12	34.43	301.65	6.26	2.33	0.00	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
199	21.600	21.00	0.12	34.43	301.65	6.26	2.42	0.00	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
200	21.500	21.00	0.12	34.43	301.65	6.25	2.51	0.00	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
201	21.400	21.00	0.12	34.43	301.65	6.24	2.60	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
202	21.300	21.00	0.12	34.43	301.64	6.23	2.67	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
203	21.200	21.00	0.12	34.43	301.64	6.22	2.75	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
204	21.100	21.00	0.12	34.43	301.64	6.21	2.82	0.00	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
205	21.000	21.00	0.12	34.43	301.63	6.21	2.89	0.00	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
206	20.900	21.00	0.12	34.43	301.63	6.20	2.96	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
207	20.800	21.00	0.12	34.43	301.62	6.19	3.02	0.00	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
208	20.700	21.00	0.12	34.43	301.62	6.18	3.08	0.00	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
209	20.600	21.00	0.12	34.43	301.61	6.17	3.14	0.00	3.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
210	20.500	21.00	0.12	34.43	301.60	6.16	3.19	0.00	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
211	20.400	21.00	0.12	34.43	301.59	6.15	3.25	0.00	3.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
212	20.300	21.00	0.12	34.43	301.58	6.14	3.29	0.00	3.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
213	20.200	21.00	0.12	34.42	301.57	6.13	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
214	20.100	21.00	0.12	34.42	301.56	6.12	3.39	0.00	3.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
215	20.000	21.00	0.12	34.42	301.55	6.12	3.43	0.00	3.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
216	19.900	21.00	0.12	34.42	301.53	6.11	3.47	0.00	3.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
217	19.800	21.00	0.12	34.42	301.51	6.10	3.51	0.00	3.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
218	19.700	21.00	0.12	34.42	301.49	6.09	3.55	0.00	3.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
219	19.600	21.00	0.12	34.41	301.47	6.09	3.59	0.00	3.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
220	19.500	21.00	0.12	34.41	301.44	6.08	3.62	0.00	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
221	19.400	21.00	0.12	34.41	301.41	6.07	3.66	0.00	3.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
222	19.300	21.00	0.12	34.40	301.37	6.07	3.69	0.00	3.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
223	19.200	21.00	0.12	34.40	301.33	6.06	3.72	0.00	3.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
224	19.100	21.00	0.12	34.40	301.29	6.05	3.75	0.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
225	19.000	21.00	0.12	34.39	301.24	6.05	3.78	0.00	3.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
226	18.900	21.00	0.12	34.38	301.18	6.04	3.81	0.00	3.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
227	18.800	21.00	0.12	34.38	301.11	6.03	3.84	0.00	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
228	18.700	21.00	0.12	34.37	301.04	6.03	3.87	0.00	3.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
229	18.600	21.00	0.12	34.36	300.95	6.02	3.90	0.00	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
230	18.500	21.00	0.12	34.35	300.85	6.02	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
231	18.400	21.00	0.12	34.34	300.74	6.01	3.96	0.00	3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
232	18.300	21.00	0.12	34.33	300.62	6.00	3.99	0.00	3.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
233	18.200	21.00	0.12	34.32	300.47	6.00	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
234	18.100	21.00	0.12	34.30	300.31	5.99	4.05	0.00	4.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
235	18.000	21.00	0.12	34.28	300.13	5.99	4.09	0.00	4.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
236	17.900	21.00	0.12	34.26	299.92	5.98	4.12	0.00	4.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
237	17.800	21.00	0.12	34.24	299.68	5.97	4.16	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
238	17.700	21.00	0.12	34.21	299.42	5.96	4.21	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
239	17.600	21.00	0.12	34.18	299.11	5.96	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
240	17.500	21.00	0.12	34.15	298.76	5.95	4.32	0.00	4.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
241	17.400	21.00	0.12	34.11	298.37	5.94	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
242	17.300	21.00	0.12	34.06	297.92	5.93	4.46	0.00	4.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
243	17.200	21.00	0.12	34.01	297.42	5.93	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
244	17.100	21.00	0.12	33.96	296.84	5.92	4.64	0.00	4.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
245	17.000	21.00	0.12	33.89	296.19	5.92	4.76	0.00	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
246	16.900	21.00	0.12	33.82	295.44	5.91	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
247	16.800	21.00	0.12	33.73	294.60	5.92	5.05	0.00	5.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
248	16.700	21.00	0.12	33.64	293.64	5.93	5.23	0.00	5.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09

249	16.600	21.00	0.12	33.53	292.55	5.95	5.45	0.00	5.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.11
250	16.500	21.00	0.12	33.41	291.32	5.99	5.71	0.00	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.14
251	16.400	21.00	0.12	33.27	289.92	6.05	6.01	0.00	6.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.17
252	16.300	21.00	0.12	33.11	288.33	6.14	6.38	0.00	6.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.21

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 7 Bayou Chevreuil WINTER Projection No Man Made Loads (Natural Conditions)

********** 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
253	UPR RCH	0.05600	21.00	0.12	33.11	288.33	6.14	6.38	0.00	6.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
255	WSTLD	0.02800	26.07	0.13	31.70	272.60	8.03	6.12	0.00	6.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88
268	WSTLD	0.02800	26.25	0.11	27.00	230.90	8.03	6.35	0.00	6.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.65

********** 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
253	16.30	16.20	0.05600	33.3	0.00080	1.44	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
254	16.20	16.10	0.05600	33.3	0.00080	1.44	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
255	16.10	16.00	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
256	16.00	15.90	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
257	15.90	15.80	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
258	15.80	15.70	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
259	15.70	15.60	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
260	15.60	15.50	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
261	15.50	15.40	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
262	15.40	15.30	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
263	15.30	15.20	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
264	15.20	15.10	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
265	15.10	15.00	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
266	15.00	14.90	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
267	14.90	14.80	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
268	14.80	14.70	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
269	14.70	14.60	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
270	14.60	14.50	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
271	14.50	14.40	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
272	14.40	14.30	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
273	14.30	14.20	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
274	14.20	14.10	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
275	14.10	14.00	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
276	14.00	13.90	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
277	13.90	13.80	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
278	13.80	13.70	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
279	13.70	13.60	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
280	13.60	13.50	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
281	13.50	13.40	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
282	13.40	13.30	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002

283	13.30	13.20	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
284	13.20	13.10	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
285	13.10	13.00	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
286	13.00	12.90	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
287	12.90	12.80	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
288	12.80	12.70	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
289	12.70	12.60	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
290	12.60	12.50	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
291	12.50	12.40	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
292	12.40	12.30	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
293	12.30	12.20	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
294	12.20	12.10	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
295	12.10	12.00	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
296	12.00	11.90	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
297	11.90	11.80	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
298	11.80	11.70	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
299	11.70	11.60	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
300	11.60	11.50	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
301	11.50	11.40	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
302	11.40	11.30	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
303	11.30	11.20	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
304	11.20	11.10	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
305	11.10	11.00	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
306	11.00	10.90	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
307	10.90	10.80	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
308	10.80	10.70	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
309	10.70	10.60	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
310	10.60	10.50	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
311	10.50	10.40	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
312	10.40	10.30	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
313	10.30	10.20	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
314	10.20	10.10	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
315	10.10	10.00	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
316	10.00	9.90	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
317	9.90	9.80	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
TOT						51.50			454122.53	289250.00					
AVG					0.00146		1.57	44.50			69.87				
CUM						189.67									

********** 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
253	16.200	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
254	16.100	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
255	16.000	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
256	15.900	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
257	15.800	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
258	15.700	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
259	15.600	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
260	15.500	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
261	15.400	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00

262	15.300	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
263	15.200	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
264	15.100	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
265	15.000	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
266	14.900	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
267	14.800	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
268	14.700	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
269	14.600	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
270	14.500	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
271	14.400	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
272	14.300	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
273	14.200	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
274	14.100	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
275	14.000	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
276	13.900	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
277	13.800	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
278	13.700	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
279	13.600	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
280	13.500	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
281	13.400	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
282	13.300	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
283	13.200	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
284	13.100	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
285	13.000	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
286	12.900	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
287	12.800	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
288	12.700	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
289	12.600	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
290	12.500	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
291	12.400	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
292	12.300	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
293	12.200	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
294	12.100	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
295	12.000	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
296	11.900	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
297	11.800	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
298	11.700	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
299	11.600	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
300	11.500	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
301	11.400	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
302	11.300	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
303	11.200	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
304	11.100	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
305	11.000	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
306	10.900	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
307	10.800	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
308	10.700	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
309	10.600	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
310	10.500	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
311	10.400	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
312	10.300	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
313	10.200	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
314	10.100	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
315	10.000	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
316	9.900	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
317	9.800	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00

AVG 20 DEG C RATE 0.44 0.07 0.00 0.00 0.00 0.00 0.00 0.79 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.28 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
253	16.200	21.00	0.12	33.02	287.36	6.21	6.60	0.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
254	16.100	21.00	0.12	32.95	286.66	6.26	6.75	0.00	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.26
255	16.000	21.00	0.12	32.88	285.92	6.31	6.89	0.00	6.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
256	15.900	21.00	0.12	32.83	285.47	6.31	7.03	0.00	7.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.27
257	15.800	21.00	0.12	32.78	284.99	6.31	7.16	0.00	7.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
258	15.700	21.00	0.12	32.72	284.48	6.31	7.29	0.00	7.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.23
259	15.600	21.00	0.12	32.66	283.93	6.31	7.40	0.00	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.21
260	15.500	21.00	0.12	32.60	283.33	6.31	7.52	0.00	7.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
261	15.400	21.00	0.12	32.53	282.70	6.31	7.62	0.00	7.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
262	15.300	21.00	0.12	32.46	282.01	6.31	7.72	0.00	7.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.19
263	15.200	21.00	0.12	32.38	281.28	6.31	7.81	0.00	7.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.19
264	15.100	21.00	0.12	32.30	280.49	6.31	7.89	0.00	7.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
265	15.000	21.00	0.12	32.20	279.64	6.32	7.96	0.00	7.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
266	14.900	21.00	0.12	32.11	278.73	6.33	8.03	0.00	8.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.22
267	14.800	21.00	0.12	32.00	277.75	6.34	8.09	0.00	8.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
268	14.700	21.00	0.12	31.89	276.70	6.35	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.26
269	14.600	21.00	0.12	31.89	276.70	6.33	8.23	0.00	8.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
270	14.500	21.00	0.12	31.89	276.70	6.31	8.31	0.00	8.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.21
271	14.400	21.00	0.12	31.89	276.70	6.30	8.39	0.00	8.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.19
272	14.300	21.00	0.12	31.89	276.70	6.29	8.47	0.00	8.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.17
273	14.200	21.00	0.12	31.89	276.70	6.27	8.55	0.00	8.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.16
274	14.100	21.00	0.12	31.89	276.70	6.26	8.62	0.00	8.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.14
275	14.000	21.00	0.12	31.89	276.70	6.25	8.69	0.00	8.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.13
276	13.900	21.00	0.12	31.89	276.70	6.24	8.75	0.00	8.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12
277	13.800	21.00	0.12	31.89	276.70	6.23	8.82	0.00	8.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
278	13.700	21.00	0.12	31.89	276.70	6.23	8.88	0.00	8.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09
279	13.600	21.00	0.12	31.89	276.70	6.22	8.94	0.00	8.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
280	13.500	21.00	0.12	31.89	276.70	6.21	9.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
281	13.400	21.00	0.12	31.89	276.70	6.20	9.05	0.00	9.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
282	13.300	21.00	0.12	31.89	276.70	6.20	9.11	0.00	9.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
283	13.200	21.00	0.12	31.89	276.70	6.19	9.16	0.00	9.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
284	13.100	21.00	0.12	31.89	276.70	6.19	9.21	0.00	9.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
285	13.000	21.00	0.12	31.89	276.70	6.18	9.26	0.00	9.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
286	12.900	21.00	0.12	31.89	276.70	6.17	9.30	0.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
287	12.800	21.00	0.12	31.89	276.70	6.17	9.35	0.00	9.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
288	12.700	21.00	0.12	31.89	276.70	6.16	9.39	0.00	9.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
289	12.600	21.00	0.12	31.89	276.70	6.16	9.44	0.00	9.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
290	12.500	21.00	0.12	31.89	276.70	6.15	9.48	0.00	9.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
291	12.400	21.00	0.12	31.89	276.70	6.15	9.52	0.00	9.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
292	12.300	21.00	0.12	31.89	276.70	6.14	9.56	0.00	9.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
293	12.200	21.00	0.12	31.89	276.70	6.14	9.59	0.00	9.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
294	12.100	21.00	0.12	31.89	276.70	6.13	9.63	0.00	9.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
295	12.000	21.00	0.12	31.89	276.69	6.13	9.67	0.00	9.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
296	11.900	21.00	0.12	31.89	276.69	6.12	9.70	0.00	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
297	11.800	21.00	0.12	31.89	276.69	6.12	9.73	0.00	9.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01

298	11.700	21.00	0.12	31.89	276.69	6.11	9.77	0.00	9.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
299	11.600	21.00	0.12	31.90	276.69	6.11	9.80	0.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
300	11.500	21.00	0.12	31.90	276.69	6.10	9.83	0.00	9.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
301	11.400	21.00	0.12	31.90	276.69	6.10	9.87	0.00	9.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
302	11.300	21.00	0.12	31.90	276.69	6.09	9.90	0.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
303	11.200	21.00	0.12	31.90	276.69	6.09	9.93	0.00	9.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
304	11.100	21.00	0.12	31.90	276.69	6.08	9.97	0.00	9.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
305	11.000	21.00	0.12	31.90	276.68	6.08	10.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
306	10.900	21.00	0.12	31.90	276.68	6.08	10.04	0.00	10.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
307	10.800	21.00	0.12	31.90	276.68	6.07	10.07	0.00	10.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
308	10.700	21.00	0.12	31.90	276.68	6.07	10.11	0.00	10.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
309	10.600	21.00	0.12	31.90	276.68	6.07	10.15	0.00	10.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
310	10.500	21.00	0.12	31.90	276.67	6.06	10.19	0.00	10.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
311	10.400	21.00	0.12	31.90	276.67	6.06	10.24	0.00	10.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
312	10.300	21.00	0.12	31.91	276.67	6.06	10.28	0.00	10.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
313	10.200	21.00	0.12	31.91	276.67	6.06	10.33	0.00	10.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
314	10.100	21.00	0.12	31.91	276.66	6.07	10.39	0.00	10.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
315	10.000	21.00	0.12	31.91	276.66	6.07	10.45	0.00	10.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
316	9.900	21.00	0.12	31.91	276.65	6.08	10.52	0.00	10.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
317	9.800	21.00	0.12	31.91	276.65	6.09	10.59	0.00	10.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 8 Bayou Chevreuil WINTER Projection No Man Made Loads (Natural Conditions)

********** 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
318	UPR RCH	0.11200	21.00	0.12	31.91	276.65	6.09	10.59	0.00	10.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
318	9.80	9.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
319	9.70	9.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
320	9.60	9.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
321	9.50	9.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
322	9.40	9.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
323	9.30	9.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
324	9.20	9.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
325	9.10	9.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
326	9.00	8.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
327	8.90	8.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
328	8.80	8.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
329	8.70	8.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
330	8.60	8.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
331	8.50	8.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
332	8.40	8.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
333	8.30	8.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001

334	8.20	8.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
335	8.10	8.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
336	8.00	7.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
337	7.90	7.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
338	7.80	7.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
339	7.70	7.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
340	7.60	7.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
341	7.50	7.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
342	7.40	7.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
343	7.30	7.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
344	7.20	7.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
345	7.10	7.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
346	7.00	6.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
347	6.90	6.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
348	6.80	6.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
349	6.70	6.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
350	6.60	6.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
351	6.50	6.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
352	6.40	6.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
353	6.30	6.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
354	6.20	6.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
355	6.10	6.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
356	6.00	5.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
357	5.90	5.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
358	5.80	5.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
359	5.70	5.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
360	5.60	5.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
361	5.50	5.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
362	5.40	5.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
363	5.30	5.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
364	5.20	5.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
365	5.10	5.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
366	5.00	4.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
367	4.90	4.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
368	4.80	4.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
369	4.70	4.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
370	4.60	4.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
371	4.50	4.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
372	4.40	4.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
373	4.30	4.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
374	4.20	4.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
375	4.10	4.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
376	4.00	3.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
377	3.90	3.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
378	3.80	3.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
379	3.70	3.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
380	3.60	3.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
381	3.50	3.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
382	3.40	3.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
383	3.30	3.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
384	3.20	3.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
385	3.10	3.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
386	3.00	2.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
387	2.90	2.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
388	2.80	2.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
389	2.70	2.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001

390	2.60	2.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
391	2.50	2.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
392	2.40	2.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
393	2.30	2.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
394	2.20	2.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
395	2.10	2.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
396	2.00	1.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
397	1.90	1.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
398	1.80	1.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
399	1.70	1.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
400	1.60	1.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
401	1.50	1.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
402	1.40	1.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
403	1.30	1.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
404	1.20	1.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
405	1.10	1.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
406	1.00	0.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
407	0.90	0.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
408	0.80	0.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
409	0.70	0.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
410	0.60	0.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
411	0.50	0.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
412	0.40	0.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
413	0.30	0.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
414	0.20	0.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
415	0.10	0.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
TOT						84.98			822316.06	480886.00					
AVG					0.00133		1.71	49.07			83.91				
CUM						274.64									

********** 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
318	9.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
319	9.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
320	9.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
321	9.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
322	9.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
323	9.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
324	9.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
325	9.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
326	8.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
327	8.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
328	8.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
329	8.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
330	8.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
331	8.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
332	8.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
333	8.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
334	8.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
335	8.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00

336	7.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
337	7.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
338	7.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
339	7.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
340	7.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
341	7.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
342	7.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
343	7.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
344	7.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
345	7.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
346	6.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
347	6.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
348	6.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
349	6.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
350	6.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
351	6.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
352	6.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
353	6.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
354	6.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
355	6.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
356	5.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
357	5.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
358	5.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
359	5.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
360	5.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
361	5.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
362	5.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
363	5.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
364	5.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
365	5.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
366	4.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
367	4.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
368	4.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
369	4.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
370	4.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
371	4.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
372	4.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
373	4.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
374	4.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
375	4.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
376	3.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
377	3.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
378	3.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
379	3.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
380	3.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
381	3.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
382	3.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
383	3.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
384	3.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
385	3.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
386	2.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
387	2.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
388	2.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
389	2.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
390	2.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
391	2.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00

392	2.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
393	2.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
394	2.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
395	2.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
396	1.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
397	1.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
398	1.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
399	1.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
400	1.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
401	1.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
402	1.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
403	1.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
404	1.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
405	1.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
406	0.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
407	0.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
408	0.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
409	0.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
410	0.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
411	0.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
412	0.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
413	0.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
414	0.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
415	0.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
AVG 20 DEG C RATE			0.40	0.07	0.00	0.00	0.00	0.00	0.00	0.49			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.28	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
318	9.700	21.00	0.12	31.92	276.65	6.11	10.65	0.00	10.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
319	9.600	21.00	0.12	31.92	276.64	6.12	10.71	0.00	10.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
320	9.500	21.00	0.12	31.92	276.64	6.12	10.76	0.00	10.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
321	9.400	21.00	0.12	31.92	276.63	6.13	10.82	0.00	10.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
322	9.300	21.00	0.12	31.93	276.63	6.14	10.87	0.00	10.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
323	9.200	21.00	0.12	31.93	276.63	6.14	10.91	0.00	10.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
324	9.100	21.00	0.12	31.93	276.62	6.14	10.96	0.00	10.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
325	9.000	21.00	0.12	31.93	276.62	6.14	11.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
326	8.900	21.00	0.12	31.94	276.61	6.14	11.05	0.00	11.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
327	8.800	21.00	0.12	31.94	276.60	6.14	11.09	0.00	11.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
328	8.700	21.00	0.12	31.94	276.60	6.14	11.12	0.00	11.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
329	8.600	21.00	0.12	31.95	276.59	6.14	11.16	0.00	11.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
330	8.500	21.00	0.12	31.95	276.58	6.14	11.20	0.00	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
331	8.400	21.00	0.12	31.96	276.57	6.13	11.23	0.00	11.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
332	8.300	21.00	0.12	31.96	276.56	6.13	11.27	0.00	11.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
333	8.200	21.00	0.12	31.96	276.56	6.13	11.30	0.00	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
334	8.100	21.00	0.12	31.97	276.55	6.12	11.33	0.00	11.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
335	8.000	21.00	0.12	31.98	276.53	6.12	11.36	0.00	11.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
336	7.900	21.00	0.12	31.98	276.52	6.12	11.39	0.00	11.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
337	7.800	21.00	0.12	31.99	276.51	6.11	11.41	0.00	11.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
338	7.700	21.00	0.12	32.00	276.50	6.11	11.44	0.00	11.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

339	7.600	21.00	0.12	32.00	276.48	6.11	11.46	0.00	11.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
340	7.500	21.00	0.12	32.01	276.47	6.10	11.49	0.00	11.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
341	7.400	21.00	0.12	32.02	276.45	6.10	11.51	0.00	11.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
342	7.300	21.00	0.12	32.03	276.43	6.10	11.53	0.00	11.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
343	7.200	21.00	0.12	32.04	276.42	6.09	11.55	0.00	11.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
344	7.100	21.00	0.12	32.05	276.40	6.09	11.57	0.00	11.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
345	7.000	21.00	0.12	32.06	276.38	6.09	11.59	0.00	11.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
346	6.900	21.00	0.12	32.07	276.35	6.08	11.61	0.00	11.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
347	6.800	21.00	0.12	32.08	276.33	6.08	11.63	0.00	11.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
348	6.700	21.00	0.12	32.10	276.30	6.08	11.65	0.00	11.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
349	6.600	21.00	0.12	32.11	276.27	6.07	11.66	0.00	11.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
350	6.500	21.00	0.12	32.13	276.24	6.07	11.68	0.00	11.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
351	6.400	21.00	0.12	32.15	276.21	6.07	11.70	0.00	11.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
352	6.300	21.00	0.12	32.16	276.18	6.06	11.71	0.00	11.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
353	6.200	21.00	0.12	32.18	276.14	6.06	11.72	0.00	11.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
354	6.100	21.00	0.12	32.20	276.10	6.06	11.74	0.00	11.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
355	6.000	21.00	0.12	32.23	276.06	6.06	11.75	0.00	11.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
356	5.900	21.00	0.12	32.25	276.02	6.05	11.76	0.00	11.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
357	5.800	21.00	0.11	32.28	275.97	6.05	11.77	0.00	11.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
358	5.700	21.00	0.11	32.30	275.92	6.05	11.78	0.00	11.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
359	5.600	21.00	0.11	32.33	275.86	6.05	11.79	0.00	11.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
360	5.500	21.00	0.11	32.37	275.80	6.05	11.80	0.00	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
361	5.400	21.00	0.11	32.40	275.74	6.04	11.81	0.00	11.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
362	5.300	21.00	0.11	32.43	275.67	6.04	11.82	0.00	11.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
363	5.200	21.00	0.11	32.47	275.60	6.04	11.83	0.00	11.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
364	5.100	21.00	0.11	32.52	275.52	6.04	11.84	0.00	11.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
365	5.000	21.00	0.11	32.56	275.44	6.04	11.84	0.00	11.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
366	4.900	21.00	0.11	32.61	275.35	6.04	11.85	0.00	11.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
367	4.800	21.00	0.11	32.66	275.25	6.03	11.85	0.00	11.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
368	4.700	21.00	0.11	32.71	275.15	6.03	11.86	0.00	11.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
369	4.600	21.00	0.11	32.77	275.04	6.03	11.86	0.00	11.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
370	4.500	21.00	0.11	32.83	274.93	6.03	11.87	0.00	11.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
371	4.400	21.00	0.11	32.90	274.80	6.03	11.87	0.00	11.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
372	4.300	21.00	0.11	32.97	274.67	6.03	11.87	0.00	11.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
373	4.200	21.00	0.11	33.05	274.52	6.03	11.87	0.00	11.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
374	4.100	21.00	0.11	33.13	274.37	6.03	11.87	0.00	11.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
375	4.000	21.00	0.11	33.22	274.20	6.03	11.87	0.00	11.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
376	3.900	21.00	0.11	33.31	274.03	6.03	11.87	0.00	11.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
377	3.800	21.00	0.11	33.42	273.84	6.03	11.87	0.00	11.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
378	3.700	21.00	0.11	33.52	273.64	6.03	11.86	0.00	11.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
379	3.600	21.00	0.11	33.64	273.42	6.03	11.86	0.00	11.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
380	3.500	21.00	0.11	33.76	273.19	6.03	11.85	0.00	11.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
381	3.400	21.00	0.11	33.90	272.94	6.03	11.84	0.00	11.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
382	3.300	21.00	0.11	34.04	272.67	6.03	11.84	0.00	11.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
383	3.200	21.00	0.11	34.19	272.39	6.03	11.82	0.00	11.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
384	3.100	21.00	0.11	34.36	272.08	6.04	11.81	0.00	11.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
385	3.000	21.00	0.11	34.53	271.75	6.04	11.80	0.00	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
386	2.900	21.00	0.11	34.72	271.40	6.04	11.78	0.00	11.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
387	2.800	21.00	0.11	34.92	271.03	6.04	11.76	0.00	11.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
388	2.700	21.00	0.11	35.13	270.63	6.04	11.74	0.00	11.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
389	2.600	21.00	0.11	35.36	270.20	6.05	11.71	0.00	11.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
390	2.500	21.00	0.11	35.61	269.74	6.05	11.68	0.00	11.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
391	2.400	21.00	0.11	35.88	269.24	6.06	11.65	0.00	11.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
392	2.300	21.00	0.11	36.16	268.71	6.06	11.61	0.00	11.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
393	2.200	21.00	0.11	36.46	268.15	6.07	11.56	0.00	11.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
394	2.100	21.00	0.11	36.79	267.54	6.07	11.52	0.00	11.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05

395	2.000	21.00	0.11	37.13	266.89	6.08	11.46	0.00	11.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
396	1.900	21.00	0.10	37.51	266.20	6.09	11.40	0.00	11.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
397	1.800	21.00	0.10	37.90	265.45	6.10	11.33	0.00	11.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09
398	1.700	21.00	0.10	38.33	264.65	6.11	11.26	0.00	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
399	1.600	21.00	0.10	38.79	263.80	6.12	11.17	0.00	11.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12
400	1.500	21.00	0.10	39.28	262.88	6.14	11.08	0.00	11.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.14
401	1.400	21.00	0.10	39.80	261.90	6.16	10.97	0.00	10.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.17
402	1.300	21.00	0.10	40.37	260.86	6.18	10.85	0.00	10.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
403	1.200	21.00	0.10	40.97	259.73	6.21	10.72	0.00	10.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
404	1.100	21.00	0.10	41.61	258.53	6.24	10.57	0.00	10.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
405	1.000	21.00	0.10	42.30	257.24	6.28	10.40	0.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
406	0.900	21.00	0.10	43.04	255.86	6.33	10.21	0.00	10.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.40
407	0.800	21.00	0.10	43.83	254.38	6.39	10.01	0.00	10.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.48
408	0.700	21.00	0.10	44.68	252.79	6.47	9.77	0.00	9.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
409	0.600	21.00	0.10	45.59	251.10	6.56	9.51	0.00	9.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.68
410	0.500	21.00	0.10	46.56	249.28	6.67	9.23	0.00	9.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80
411	0.400	21.00	0.10	47.60	247.34	6.82	8.90	0.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.96
412	0.300	21.00	0.10	48.72	245.25	6.99	8.54	0.00	8.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.13
413	0.200	21.00	0.10	49.92	243.02	7.21	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35
414	0.100	21.00	0.10	51.20	240.63	7.48	7.70	0.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.60
415	0.000	21.00	0.10	52.57	238.07	7.82	7.20	0.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.90

STREAM SUMMARY
Baker Canal East

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
WINTER Projection No Man Made Loads (Natural Conditions)

TRAVEL TIME = 274.64 DAYS

MAXIMUM EFFLUENT = 66.67 PERCENT

FLOW	=	0.02800	TO	0.11200	m^3/s
DISPERSION	=	0.8700	TO	1.8800	m^2/s
VELOCITY	=	0.00080	TO	0.00245	m/s
DEPTH	=	0.94	TO	1.71	m
WIDTH	=	21.94	TO	49.07	m
BOD DECAY	=	0.07	TO	0.10	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.52	TO	2.13	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.41	TO	0.75	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	=	21.00	TO	21.00	deg C
DISSOLVED OXYGEN	=	5.47	TO	7.82	mg/L

********** 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
32	HDWTR	0.02800	21.00	0.25	64.90	502.40	8.03	7.30	0.00	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70

********** 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
32	3.20	3.10	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
33	3.10	3.00	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
34	3.00	2.90	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
35	2.90	2.80	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
36	2.80	2.70	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
37	2.70	2.60	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
38	2.60	2.50	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
39	2.50	2.40	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
40	2.40	2.30	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
41	2.30	2.20	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
42	2.20	2.10	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
43	2.10	2.00	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
44	2.00	1.90	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
45	1.90	1.80	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
46	1.80	1.70	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
47	1.70	1.60	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
48	1.60	1.50	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
49	1.50	1.40	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
50	1.40	1.30	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
51	1.30	1.20	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
52	1.20	1.10	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
53	1.10	1.00	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
54	1.00	0.90	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
55	0.90	0.80	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
56	0.80	0.70	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
57	0.70	0.60	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
58	0.60	0.50	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
59	0.50	0.40	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
60	0.40	0.30	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
61	0.30	0.20	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
62	0.20	0.10	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
63	0.10	0.00	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
TOT						23.22			56171.51	78016.00					
AVG					0.00160		0.72	24.38			17.55				
CUM						23.22									

********** 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
32	3.100	8.90	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
33	3.000	8.90	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
34	2.900	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
35	2.800	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
36	2.700	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
37	2.600	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
38	2.500	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
39	2.400	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
40	2.300	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
41	2.200	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
42	2.100	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
43	2.000	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
44	1.900	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
45	1.800	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
46	1.700	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
47	1.600	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
48	1.500	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
49	1.400	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
50	1.300	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
51	1.200	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
52	1.100	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
53	1.000	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
54	0.900	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
55	0.800	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
56	0.700	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
57	0.600	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
58	0.500	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
59	0.400	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
60	0.300	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
61	0.200	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
62	0.100	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
63	0.000	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
AVG 20 DEG C RATE			0.95	0.09	0.00	0.00	0.00	0.00	0.00	2.00			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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
32	3.100	21.00	0.19	64.76	501.56	6.18	5.43	0.00	5.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
33	3.000	21.00	0.19	64.73	501.40	5.97	5.15	0.00	5.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.13
34	2.900	21.00	0.18	64.70	501.22	5.81	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.06
35	2.800	21.00	0.18	64.66	501.00	5.70	4.64	0.00	4.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
36	2.700	21.00	0.18	64.62	500.75	5.63	4.40	0.00	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.94
37	2.600	21.00	0.17	64.57	500.44	5.57	4.18	0.00	4.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
38	2.500	21.00	0.17	64.51	500.08	5.54	3.97	0.00	3.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.83
39	2.400	21.00	0.16	64.44	499.66	5.52	3.77	0.00	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.78
40	2.300	21.00	0.16	64.35	499.16	5.51	3.57	0.00	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.73
41	2.200	21.00	0.16	64.25	498.56	5.50	3.39	0.00	3.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.69
42	2.100	21.00	0.15	64.14	497.86	5.50	3.22	0.00	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.65
43	2.000	21.00	0.15	64.00	497.03	5.51	3.06	0.00	3.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
44	1.900	21.00	0.15	63.83	496.04	5.52	2.90	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
45	1.800	21.00	0.14	63.63	494.87	5.53	2.75	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
46	1.700	21.00	0.14	63.40	493.50	5.54	2.61	0.00	2.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.50
47	1.600	21.00	0.13	63.13	491.86	5.56	2.48	0.00	2.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.47
48	1.500	21.00	0.13	62.80	489.93	5.57	2.36	0.00	2.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
49	1.400	21.00	0.13	62.42	487.64	5.58	2.24	0.00	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.42
50	1.300	21.00	0.12	61.96	484.94	5.60	2.12	0.00	2.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
51	1.200	21.00	0.12	61.42	481.74	5.61	2.01	0.00	2.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.37
52	1.100	21.00	0.12	60.79	477.95	5.62	1.91	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.35
53	1.000	21.00	0.11	60.03	473.47	5.64	1.81	0.00	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
54	0.900	21.00	0.11	59.14	468.16	5.65	1.72	0.00	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.31
55	0.800	21.00	0.11	58.08	461.88	5.66	1.63	0.00	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.30
56	0.700	21.00	0.10	56.83	454.45	5.67	1.55	0.00	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.28
57	0.600	21.00	0.10	55.35	445.66	5.68	1.47	0.00	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.27
58	0.500	21.00	0.09	53.60	435.26	5.70	1.40	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.26
59	0.400	21.00	0.09	51.53	422.95	5.71	1.33	0.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
60	0.300	21.00	0.09	49.08	408.38	5.72	1.26	0.00	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
61	0.200	21.00	0.08	46.18	391.15	5.74	1.19	0.00	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
62	0.100	21.00	0.08	42.75	370.75	5.76	1.13	0.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.23
63	0.000	21.00	0.08	38.68	346.61	5.78	1.07	0.00	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.23

STREAM SUMMARY
Bayou Verret

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
WINTER Projection No Man Made Loads (Natural Conditions)

TRAVEL TIME = 23.22 DAYS

MAXIMUM EFFLUENT = 0.00 PERCENT

FLOW	=	0.02800	TO	0.02800	m³/s
DISPERSION	=	0.8700	TO	0.8700	m²/s
VELOCITY	=	0.00160	TO	0.00160	m/s
DEPTH	=	0.72	TO	0.72	m
WIDTH	=	24.38	TO	24.38	m
BOD DECAY	=	0.09	TO	0.09	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	2.13	TO	2.13	g/m²/d
NH3 SOURCE	=	0.00	TO	0.00	g/m²/d

REAERATION	=	0.97	TO	0.97	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	=	21.00	TO	21.00	deg C
DISSOLVED OXYGEN	=	5.50	TO	6.18	mg/L

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
WINTER Projection No Man Made Loads (Natural Conditions)

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	0.056	38.9	29.5	0.0	0.0	0.0	0.0	0.0	0.0	14.0
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	0.084	58.3	46.8	0.0	0.0	0.0	0.0	0.0	0.0	18.5
WITHDRAWLS	-0.028	-14.7	-2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OUTFLOW THRU LOWER BNDRY	-0.112	-75.7	-69.7	0.0	0.0	0.0	0.0	0.0	0.0	-18.4
DISPERSION THRU LOWER BNDRY		57.4	-75.8	0.0	0.0	0.0	0.0	0.0	0.0	48.6
NON-POINT INPUT		0.0	1176.0	0.0	0.0					0.0
NATURAL REAERATION		2861.0								
DAM REAERATION		0.0								
BACKGROUND SOD		-1758.4								
BOD#1 DECAY		-1104.5	-1104.5							
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		0.0				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		-62.7								-62.7
NCM SETTLING		0.0								0.0
TOTAL INPUTS	0.140	3015.5	1252.4	0.0	0.0	0.0	0.0	0.0	0.0	81.2
TOTAL OUTPUTS	-0.140	-3016.1	-1252.4	0.0	0.0	0.0	0.0	0.0	0.0	-81.2
NET CONVERGENCE ERROR	0.000	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

.....EXECUTION COMPLETED

APPENDIX P

Projection NPS Loads and TMDL Calculations

Summer TMDL Summary:

Bayou Chevreuil

Calculation of the TMDL - Kilograms per day			
Load description	WLA (kg/day)	LA (kg/day)	MOS Load (kg/day)
Point Source loads	7		2
Headwater / Tributatary loads		6	0
Benthic loads		2,315	0
Incremental Loads		0	0
SUB-TOTAL	**7**	**2,321**	**2**
TMDL = WLA + LA + MOS		***2,330 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	7		2
Natural Nonpoint Loads		2,321	
Manmade Nonpoint Loads		0	0
SUB-TOTAL	**7**	**2,321**	**2**
TMDL = WLA + LA + MOS		***2,330 kg/day***	

FILE: R:\PROJECTS\3110-051\LA-QUAL\CHEVREUIL\REVISIONS\TMDL LOAD CALC FOR CHEVRIL-IMPROVED.XLS

Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Bayou Chevreuil

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: Baker Canal East	3.10	27.13	0	0	0.000	0.000	2.75	**2.75**
Reach 2: Bayou Verret	4.00	24.38	0	0	0.000	0.000	2.20	**2.20**
Reach 3: Bayou Citamon	0.50	27.13	5	0	0.369	0.000	3.00	**3.37**
Reach 4: Bayou Citamon	6.20	21.94	5	0	0.037	0.000	3.50	**3.54**
Reach 5: Bayou Citamon	5.70	30.78	5	0	0.028	0.000	1.85	**1.88**
Reach 6: Bayou Chevreuil	6.50	25.60	150	0	0.901	0.000	2.50	**3.40**
Reach 7: Bayou Chevreuil	6.50	44.50	750	0	2.593	0.000	1.7	**4.29**
Reach 8: Bayou Chevreuil	9.80	49.07	1500	0	3.119	0.000	1.0	**4.12**

FILE: R:\PROJECTS\3110-051\LA-QUAL\CHEVREUIL\REVISIONS\TMDL LOAD CALC FOR CHEVRIL-IMPROVED.XLS

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

Modeled stream or water body:	Bayou Chevreuil

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						Man-made Model equivalents				Man-made 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)	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	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
	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^3)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^3)(day)]	Kilo-meters	gm O_2 / [(m^3)(day)]	%	gm O_2 / [(m^3)(day)]	Meters	(degrees Celcius)	%	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^3)(day)]	gm O_2 / [(m^3)(day)]	gm O_2 / [(m^3)(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)	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^3)(day)]	gm O_2 / [(m^3)(day)]	gm O_2 / [(m^2)(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**	**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**
Reach 1: Baker Canal East	0.000	0.000	2.75	2.750	3.10	2.00	46%	1.08	27.13	29.50	100.0%	1.08	1.08	0.000	0.000	1.08	0	0	165	165.22	0	0	0	0	0	0	0.00	0.000	0.000	0.00	0	0	0	0.00
Reach 2: Bayou Verret	0.000	0.000	2.20	2.200	4.00	2.00	46%	1.08	24.38	29.50	100.0%	1.08	1.08	0.000	0.000	1.08	0	0	192	191.57	0	0	0	0	0	0	0.00	0.000	0.000	0.00	0	0	0	0.00
Reach 3: Bayou Citamon	0.369	0.000	3.00	3.369	0.50	2.00	46%	1.08	27.13	29.50	100.0%	1.08	1.08	0.118	0.000	0.96	2	0	24	25.34	0	0	0	0	0	0	0.00	0.000	0.000	0.00	0	0	0	0.00
Reach 4: Bayou Citamon	0.037	0.000	3.50	3.537	6.20	2.00	46%	1.08	21.94	29.50	100.0%	1.08	1.08	0.011	0.000	1.07	2	0	264	265.97	0	0	0	0	0	0	0.00	0.000	0.000	0.00	0	0	0	0.00
Reach 5: Bayou Citamon	0.028	0.000	1.85	1.878	5.70	2.00	46%	1.08	30.78	29.50	100.0%	1.08	1.08	0.016	0.000	1.06	3	0	339	342.30	0	0	0	0	0	0	0.00	0.000	0.000	0.00	0	0	0	0.00
Reach 6: Bayou Chevreuil	0.901	0.000	2.50	3.401	6.50	2.00	46%	1.08	25.60	29.50	100.0%	1.08	1.08	0.286	0.000	0.79	48	0	240	287.88	0	0	0	0	0	0	0.00	0.000	0.000	0.00	0	0	0	0.00
Reach 7: Bayou Chevreuil	2.593	0.000	1.70	4.293	6.50	2.00	46%	1.08	44.50	29.50	100.0%	1.08	1.08	0.652	0.000	0.43	189	0	225	413.70	0	0	0	0	0	0	0.00	0.000	0.000	0.00	0	0	0	0.00
Reach 8: Bayou Chevreuil	3.119	0.000	1.00	4.119	9.80	2.00	46%	1.08	49.07	29.50	100.0%	1.08	1.08	0.818	0.000	0.26	393	0	229	622.61	0	0	0	0	0	0	0.00	0.000	0.000	0.00	0	0	0	0.00
Sub-Total												8.64					636	0	1679	**2315**	0		0	0	0	**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%**

FILE: R:\PROJECTS\3110-051\LA-QUAL\CHEVREUIL\REVISIONS\TMDL LOAD CALC FOR CHEVRIL-IMPROVED.XLS

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

Modeled stream or water body:	Bayou Chevreuil

Shaded cells are input values for calculations.

Values to be used in the projection models.

	Calibration Model Values												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)	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)]	(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)	**AD = O - AA**	**AE = P - AB**	**AF = Q - AC**	**AD + AE + AF**
Reach 1: Baker Canal East	0.000	0.000	2.75	2.750	3.10	2.00	46%	1.08	27.13	29.50	100.0%	1.08	0	0	165	165.22
Reach 2: Bayou Verret	0.000	0.000	2.20	2.200	4.00	2.00	46%	1.08	24.38	29.50	100.0%	1.08	0	0	192	191.57
Reach 3: Bayou Citamon	0.369	0.000	3.00	3.369	0.50	2.00	46%	1.08	27.13	29.50	100.0%	1.08	2	0	24	25.34
Reach 4: Bayou Citamon	0.037	0.000	3.50	3.537	6.20	2.00	46%	1.08	21.94	29.50	100.0%	1.08	2	0	264	265.97
Reach 5: Bayou Citamon	0.028	0.000	1.85	1.878	5.70	2.00	46%	1.08	30.78	29.50	100.0%	1.08	3	0	339	342.30
Reach 6: Bayou Chevreuil	0.901	0.000	2.50	3.401	6.50	2.00	46%	1.08	25.60	29.50	100.0%	1.08	48	0	240	287.88
Reach 7: Bayou Chevreuil	2.593	0.000	1.70	4.293	6.50	2.00	46%	1.08	44.50	29.50	100.0%	1.08	189	0	225	413.70
Reach 8: Bayou Chevreuil	3.119	0.000	1.00	4.119	9.80	2.00	46%	1.08	49.07	29.50	100.0%	1.08	393	0	229	622.61
Sub-Total												8.64	636	0	1679	**2315**

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 Chevreuil

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**
Green Briar Sewer Company	Bayou Verret	NO	0.00004542	0.000056775	15.0		20%	34.5	0.17	0.14	0.03	34.5	0.17	0.14	0.03	**0.34**	**0.27**	**0.07**
BOH Const CO	St James Ph Canal thence to Bayou Verret	NO	0.000000757	9.4625E-07	22.5		20%	51.8	0.00	0.00	0.00	51.8	0.00	0.00	0.00	**0.01**	**0.01**	**0.00**
St James Facilities Corp	Unnamed ditch to Bayou Verret	NO	4.20135E-05	5.25169E-05	22.5		20%	51.8	0.23	0.19	0.05	51.8	0.23	0.19	0.05	**0.47**	**0.38**	**0.09**
St. James Ph Housing Authority	Local drainage to Bayou Chevreuil	NO	5.56395E-05	6.95494E-05	22.5		20%	51.8	0.31	0.25	0.06	51.8	0.31	0.25	0.06	**0.62**	**0.50**	**0.12**
Abby Sanitary Sewerage Corp	St. James Canal	NO	0.00013626	0.000170325	10.0		20%	23.0	0.34	0.27	0.07	23.0	0.34	0.27	0.07	**0.68**	**0.54**	**0.14**
Caldwell Sugars Cooperative, INC		NO	0.0027252	0.0034065	5.0		20%	11.5	3.38	2.71	0.68	11.5	3.38	2.71	0.68	**6.77**	**5.42**	**1.35**
Texas Fuel & Asphalt Co Inc	Local drainage to Bayou Verret	NO	0.000003785	4.73125E-06	22.5		20%	51.8	0.02	0.02	0.00	51.8	0.02	0.02	0.00	**0.04**	**0.03**	**0.01**
SUB-TOTAL Loads									**4.46**	**3.57**	**0.89**		**4.46**	**3.57**	**0.89**	**8.93**	**7.14**	**1.79**

(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 Chevreuil

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**
Baker Canal East	0.003	10.0	8.4	2.60	2.18	4.90	4.10	46%	0.69	0.57	100%	0.69	0.57	0.69	0.57	2.64	2.22	**0.00**	**1.26**
Bayou Verret	0.003	21.0	4.9	5.44	1.27	7.30	1.70	46%	1.02	0.24	100%	1.02	0.24	1.02	0.24	3.94	0.92	**0.00**	**1.26**
Middle Saint James	0.003	9.4	2.9	2.43	0.74	6.89	2.11	46%	0.96	0.30	100%	0.96	0.30	0.96	0.30	3.72	1.14	**0.00**	**1.26**
Grand Bayou											100%								
Upper Saint James	0.003	12.0	5.6	3.10	1.46	6.12	2.88	46%	0.86	0.40	100%	0.86	0.40	0.86	0.40	3.30	1.56	**0.00**	**1.26**
Dredge Boat Canal	0.003	10.1	4.2	2.63	1.09	6.35	2.65	46%	0.89	0.37	100%	0.89	0.37	0.89	0.37	3.43	1.43	**0.00**	**1.26**
LDA Boundary	1.00E-09	14.3	4.3	0.00	0.00	3.00	4.31	46%	0.00	0.00	100%	0.00	0.00	0.00	0.00	1.62	2.33	**0.00**	**0.00**
SUB-TOTAL TMDL LOADING				**16**	**7**				**4**	**2**		**4**	**2**	**4**	**2**			**0**	**6**

Notes: 1. Ratio of UCBOD to UNBOD for background concentrations was assumed to be the same as for the calibration values.
2. Sum of background concentrations of UCBOD and UNBOD was assumed to be 9 mg/L based on reference stream data (see explanation in text of report).

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EXPLICIT MARGINS:

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

Winter TMDL Summary:

Bayou Chevreuil

Calculation of the TMDL - Kilograms per day			
Load description	WLA (kg/day)	LA (kg/day)	MOS Load (kg/day)
Point Source loads	7		2
Headwater / Tributatary loads		119	1
Benthic loads		3,021	11
Incremental Loads		0	0
SUB-TOTAL	**7**	**3,140**	**14**
TMDL = WLA + LA + MOS		***3,161 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	7		2
Natural Nonpoint Loads		3,091	
Manmade Nonpoint Loads		49	12
SUB-TOTAL	**7**	**3,140**	**14**
TMDL = WLA + LA + MOS		***3,161 kg/day***	

FILE: R:\PROJECTS\3110-051\LA-QUAL\CHEVREUIL\REVISIONS\TMDL LOAD CALC FOR CHEVRIL-IMPROVED.XLS

Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Bayou Chevreuil

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: Baker Canal East	3.10	27.13	0	0	0.000	0.000	2.75	**2.75**
Reach 2: Bayou Verret	4.00	24.38	0	0	0.000	0.000	2.20	**2.20**
Reach 3: Bayou Citamon	0.50	27.13	5	0	0.369	0.000	3.00	**3.37**
Reach 4: Bayou Citamon	6.20	21.94	5	0	0.037	0.000	3.50	**3.54**
Reach 5: Bayou Citamon	5.70	30.78	5	0	0.028	0.000	1.85	**1.88**
Reach 6: Bayou Chevreuil	6.50	25.60	150	0	0.901	0.000	2.50	**3.40**
Reach 7: Bayou Chevreuil	6.50	44.50	750	0	2.593	0.000	1.7	**4.29**
Reach 8: Bayou Chevreuil	9.80	49.07	1500	0	3.119	0.000	1.0	**4.12**

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

Modeled stream or water body:	Bayou Chevreuil

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						Man-made Model equivalents				Man-made 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)	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	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
	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^3)(day)]	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^3)(day)]	Kilo-meters	gm O_2 / [(m^3)(day)]	%	gm O_2 / [(m^3)(day)]	Meters	(degrees Celcius)	%	gm O_2 / [(m^2)(day)]	gm O_2 / [(m^3)(day)]	gm O_2 / [(m^3)(day)]	gm O_2 / [(m^3)(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)	gm O_2 / [(m^3)(day)]	gm O_2 / [(m^3)(day)]	gm O_2 / [(m^3)(day)]	gm O_2 / [(m^3)(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**	**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**
Reach 1: Baker Canal East	0.000	0.000	2.75	2.750	3.10	2.00	0%	2.00	27.13	21.00	98.0%	2.02	2.02	0.000	0.000	2.02	0	0	181	180.82	0	0	0	0	0	0	0.02	0.000	0.000	0.02	0	0	2	1.68
Reach 2: Bayou Verret	0.000	0.000	2.20	2.200	4.00	2.00	0%	2.00	24.38	21.00	98.0%	2.00	2.01	0.000	0.000	2.01	0	0	208	208.24	0	0	0	0	0	0	0.00	0.000	0.000	0.00	0	0	1	0.52
Reach 3: Bayou Citamon	0.369	0.000	3.00	3.369	0.50	2.00	0%	2.00	27.13	21.00	98.0%	2.03	2.03	0.223	0.000	1.81	3	0	26	29.19	0	0	0	0	0	0	0.03	0.004	0.000	0.03	0	0	0	0.49
Reach 4: Bayou Citamon	0.037	0.000	3.50	3.537	6.20	2.00	0%	2.00	21.94	21.00	98.0%	2.03	2.04	0.021	0.000	2.02	3	0	292	295.12	1	1	0	0	1	1	0.04	0.000	0.000	0.04	0	0	6	5.56
Reach 5: Bayou Citamon	0.028	0.000	1.85	1.878	5.70	2.00	0%	2.00	30.78	21.00	98.0%	1.88	1.88	0.028	0.000	1.85	5	0	346	350.67	0	0	0	0	0	0	0.00	0.000	0.000	0.00	0	0	0	0.00
Reach 6: Bayou Chevreuil	0.901	0.000	2.50	3.401	6.50	2.00	0%	2.00	25.60	21.00	98.0%	2.03	2.04	0.539	0.000	1.50	90	0	265	354.81	1	1	0	0	1	1	0.04	0.009	0.000	0.03	2	0	5	6.11
Reach 7: Bayou Chevreuil	2.593	0.000	1.70	4.293	6.50	2.00	0%	2.00	44.50	21.00	98.0%	2.05	2.06	1.243	0.000	0.81	359	0	251	610.40	3	1	2	0	1	3	0.06	0.035	0.000	0.02	10	0	7	17.01
Reach 8: Bayou Chevreuil	3.119	0.000	1.00	4.119	9.80	2.00	0%	2.00	49.07	21.00	98.0%	2.04	2.05	1.555	0.000	0.50	748	0	255	1002.83	5	1	4	0	1	5	0.05	0.040	0.000	0.01	19	0	7	25.88
Sub-Total												16.07					1208	0	1824	**3032**	11		6	0	5	**11**					31	0	26	**57**

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\LA-QUAL\CHEVREUIL\REVISIONS\TMDL LOAD CALC FOR CHEVRIL-IMPROVED.XLS

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

Modeled stream or water body:	Bayou Chevreuil

Shaded cells are input values for calculations.

Values to be used in the projection models.

	Calibration Model Values												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)	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)]	(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)	**AD = O - AA**	**AE = P - AB**	**AF = Q - AC**	**AD + AE + AF**
Reach 1: Baker Canal East	0.000	0.000	2.75	2.750	3.10	2.00	0%	2.00	27.13	21.00	98.0%	2.02	0	0	179	179.14
Reach 2: Bayou Verret	0.000	0.000	2.20	2.200	4.00	2.00	0%	2.00	24.38	21.00	98.0%	2.00	0	0	208	207.72
Reach 3: Bayou Citamon	0.369	0.000	3.00	3.369	0.50	2.00	0%	2.00	27.13	21.00	98.0%	2.03	3	0	26	28.70
Reach 4: Bayou Citamon	0.037	0.000	3.50	3.537	6.20	2.00	0%	2.00	21.94	21.00	98.0%	2.03	3	0	287	289.56
Reach 5: Bayou Citamon	0.028	0.000	1.85	1.878	5.70	2.00	0%	2.00	30.78	21.00	98.0%	1.88	5	0	346	350.67
Reach 6: Bayou Chevreuil	0.901	0.000	2.50	3.401	6.50	2.00	0%	2.00	25.60	21.00	98.0%	2.03	88	0	261	348.70
Reach 7: Bayou Chevreuil	2.593	0.000	1.70	4.293	6.50	2.00	0%	2.00	44.50	21.00	98.0%	2.05	349	0	244	593.39
Reach 8: Bayou Chevreuil	3.119	0.000	1.00	4.119	9.80	2.00	0%	2.00	49.07	21.00	98.0%	2.04	728	0	249	976.95
Sub-Total												16.07	1177	0	1798	**2975**

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\LA-QUAL\CHEVREUIL\REVISIONS\TMDL LOAD CALC FOR CHEVRIL-IMPROVED.XLS

Winter TMDL Calculations for Point Source loads:

Bayou Chevreuil

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**
Green Briar Sewer Company	Bayou Verret	NO	0.00004542	0.000056775	15.0		20%	34.5	0.17	0.14	0.03	34.5	0.17	0.14	0.03	**0.34**	**0.27**	**0.07**
BOH Const CO	St James Ph Canal thence to Bayou Verret	NO	0.000000757	9.4625E-07	22.5		20%	51.8	0.00	0.00	0.00	51.8	0.00	0.00	0.00	**0.01**	**0.01**	**0.00**
St James Facilities Corp	Unnamed ditch to Bayou Verret	NO	4.20135E-05	5.25169E-05	22.5		20%	51.8	0.23	0.19	0.05	51.8	0.23	0.19	0.05	**0.47**	**0.38**	**0.09**
St. James Ph Housing Authority	Local drainage to Bayou Chevreuil	NO	5.56395E-05	6.95494E-05	22.5		20%	51.8	0.31	0.25	0.06	51.8	0.31	0.25	0.06	**0.62**	**0.50**	**0.12**
Abby Sanitary Sewerage Corp	St. James Canal	NO	0.00013626	0.000170325	10.0		20%	23.0	0.34	0.27	0.07	23.0	0.34	0.27	0.07	**0.68**	**0.54**	**0.14**
Caldwell Sugars Cooperative, INC		NO	0.0027252	0.0034065	5.0		20%	11.5	3.38	2.71	0.68	11.5	3.38	2.71	0.68	**6.77**	**5.42**	**1.35**
Texas Fuel & Asphalt Co Inc	Local drainage to Bayou Verret	NO	0.000003785	4.73125E-06	22.5		20%	51.8	0.02	0.02	0.00	51.8	0.02	0.02	0.00	**0.04**	**0.03**	**0.01**
SUB-TOTAL Loads									**4.46**	**3.57**	**0.89**		**4.46**	**3.57**	**0.89**	**8.93**	**7.14**	**1.79**

(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\LA-QUAL\CHEVREUIL\REVISIONS\TMDL LOAD CALC FOR CHEVRIL-IMPROVED.XLS

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

Bayou Chevreuil

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**
Baker Canal East	0.03	10.0	8.4	25.97	21.77	4.90	4.10	0%	12.69	10.64	98%	12.96	10.86	13.02	10.92	5.02	4.21	**0.12**	**23.82**
Bayou Verret	0.03	21.0	4.9	54.35	12.67	7.30	1.70	0%	18.92	4.41	98%	19.63	4.58	19.80	4.62	7.64	1.78	**0.22**	**24.20**
Middle Saint James	0.03	9.4	2.9	24.26	7.44	6.89	2.11	0%	17.85	5.47	98%	17.98	5.51	18.01	5.52	6.95	2.13	**0.04**	**23.50**
Grand Bayou											98%								
Upper Saint James	0.03	12.0	5.6	31.00	14.59	6.12	2.88	0%	15.86	7.47	98%	16.16	7.61	16.24	7.64	6.27	2.95	**0.11**	**23.77**
Dredge Boat Canal	0.03	10.1	4.2	26.26	10.94	6.35	2.65	0%	16.47	6.86	98%	16.66	6.94	16.71	6.96	6.45	2.69	**0.07**	**23.61**
LDA Boundary	1.00E-09	14.3	4.3	0.00	0.00	6.92	2.08	0%	0.00	0.00	98%	0.00	0.00	0.00	0.00	7.10	2.14	**0.00**	**0.00**
SUB-TOTAL TMDL LOADING				**162**	**67**				**82**	**35**		**83**	**36**	**84**	**36**			**1**	**119**

Notes: 1. Ratio of UCBOD to UNBOD for background concentrations was assumed to be the same as for the calibration values.
2. Sum of background concentrations of UCBOD and UNBOD was assumed to be 9 mg/L based on reference stream data (see explanation in text of report).

FILE: R:\PROJECTS\3110-051\LA-QUAL\CHEVREUIL\REVISIONS\TMDL LOAD CALC FOR CHEVRIL-IMPROVED.XLS

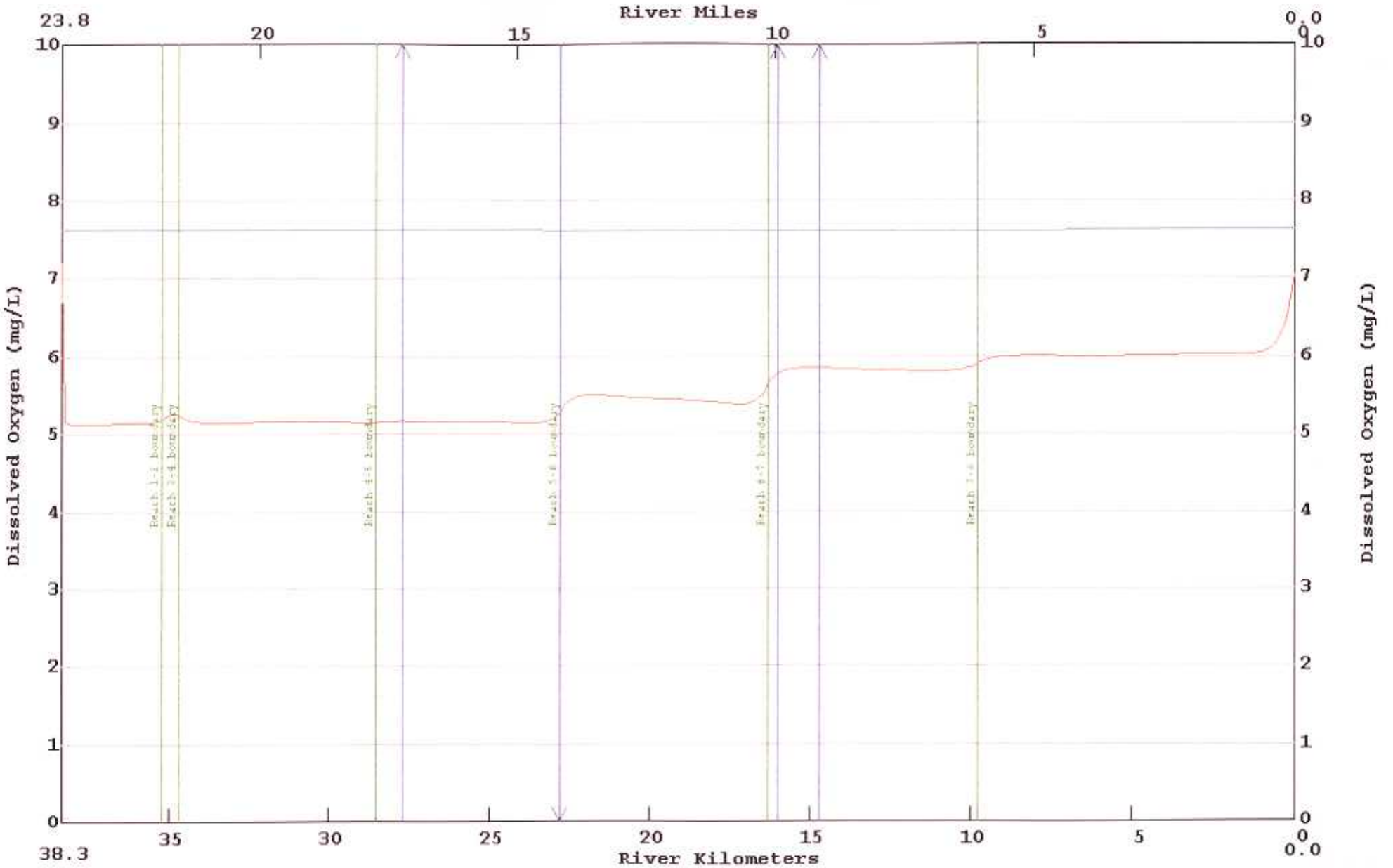
EXPLICIT MARGINS:

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

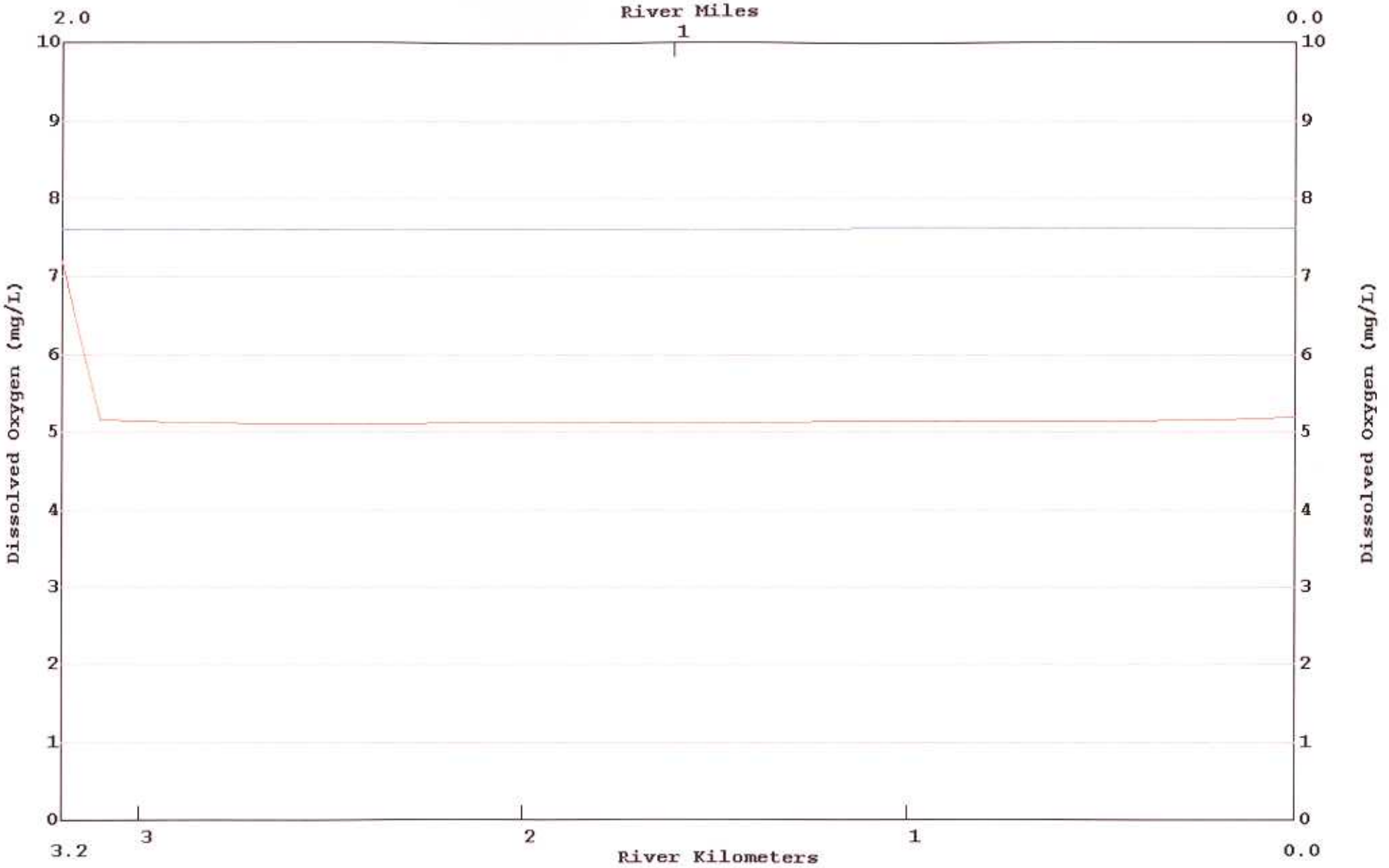
APPENDIX Q

Model Output for Projection Runs

LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\proj\summer\chev_sum.txt
SUMMER Projection Meeting DO Standard of 5 mg/L min= 5.12 max= 7.21
Main Stem



LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\proj\summer\chev_sum.txt
SUMMER Projection Meeting DO Standard of 5 mg/L min= 5.11 max= 7.21
LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101



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

Input file is R:\projects\3110-051\la-qual\chevreuil\revisions\proj\summer\chev_sum.txt
Output produced at 12:19 on 05/04/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
TITLE02         SUMMER Projection Meeting DO Standard of 5 mg/L
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   DISS
MODOPT06  YES   BIOC
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         MAXIMUM ITERATION LIMIT            =       500.00000
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	BK	Baker Canal East	38.30	TO	35.20	0.1000	3.10	31	1	31
REACH ID	2	BV	Bayou Verret	3.20	TO	0.00	0.1000	3.20	32	32	63
REACH ID	3	BC	Bayou Citamon	35.20	TO	34.70	0.1000	0.50	5	64	68
REACH ID	4	BC	Bayou Citamon	34.70	TO	28.50	0.1000	6.20	62	69	130
REACH ID	5	BC	Bayou Citamon	28.50	TO	22.80	0.1000	5.70	57	131	187
REACH ID	6	BH	Bayou Chevreuil	22.80	TO	16.30	0.1000	6.50	65	188	252
REACH ID	7	BH	Bayou Chevreuil	16.30	TO	9.80	0.1000	6.50	65	253	317
REACH ID	8	BH	Bayou Chevreuil	9.80	TO	0.00	0.1000	9.80	98	318	415

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	BK	0.000	0.000	27.130	0.000	0.000	0.940	0.00000	0.000
HYDR-1	2	BV	0.000	0.000	24.380	0.000	0.000	0.720	0.00000	0.000
HYDR-1	3	BC	0.000	0.000	27.130	0.000	0.000	0.940	0.00000	0.000
HYDR-1	4	BC	0.000	0.000	21.940	0.000	0.000	1.040	0.00000	0.000
HYDR-1	5	BC	0.000	0.000	30.780	0.000	0.000	1.290	0.00000	0.000
HYDR-1	6	BH	0.000	0.000	25.600	0.000	0.000	1.170	0.00000	0.000
HYDR-1	7	BH	0.000	0.000	44.500	0.000	0.000	1.570	0.00000	0.000
HYDR-1	8	BH	0.000	0.000	49.070	0.000	0.000	1.710	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	BK	0.00	0.870	0.000	0.000	0.000
HYDR	2	BV	0.00	0.870	0.000	0.000	0.000
HYDR	3	BC	0.00	0.870	0.000	0.000	0.000
HYDR	4	BC	0.00	0.870	0.000	0.000	0.000
HYDR	5	BC	0.00	1.120	0.000	0.000	0.000
HYDR	6	BH	0.00	1.380	0.000	0.000	0.000
HYDR	7	BH	0.00	1.630	0.000	0.000	0.000
HYDR	8	BH	0.00	1.880	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	BK	29.50	0.08	1.50	0.00	0.00	0.00	0.00	0.00
INITIAL	2	BV	29.50	0.19	2.14	0.00	0.00	0.00	0.00	0.00
INITIAL	3	BC	29.50	0.08	1.50	0.00	0.00	0.00	0.00	0.00
INITIAL	4	BC	29.50	0.11	2.20	0.00	0.00	0.00	0.00	0.00
INITIAL	5	BC	29.50	0.10	2.55	0.00	0.00	0.00	0.00	0.00
INITIAL	6	BH	29.50	0.12	2.83	0.00	0.00	0.00	0.00	0.00
INITIAL	7	BH	29.50	0.12	2.14	0.00	0.00	0.00	0.00	0.00
INITIAL	8	BH	29.50	0.12	2.70	0.00	0.00	0.00	0.00	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	BK	15 LOUISIANA	0.000	0.000	0.000	1.080	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	BV	15 LOUISIANA	0.000	0.000	0.000	1.080	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	BC	15 LOUISIANA	0.000	0.000	0.000	0.960	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	BC	15 LOUISIANA	0.000	0.000	0.000	1.070	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	BC	15 LOUISIANA	0.000	0.000	0.000	1.060	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	BH	15 LOUISIANA	0.000	0.000	0.000	0.790	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	BH	15 LOUISIANA	0.000	0.000	0.000	0.430	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	BH	15 LOUISIANA	0.000	0.000	0.000	0.260	0.070	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    ALGAE:     ALGAE    ALG CONV     ALGAE     ALGAE     MACRO     MACRO
                                DEPTH     CHL A      SETT     TO SOD       GROW      RESP      GROW      RESP

ENDATA14

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

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

COEF-4           1   BK       0.000     0.110     0.000     0.000
COEF-4           2   BV       0.000     0.110     0.000     0.000
COEF-4           3   BC       0.000     0.110     0.000     0.000
COEF-4           4   BC       0.000     0.190     0.000     0.000
COEF-4           5   BC       0.000     0.190     0.000     0.000
COEF-4           6   BH       0.000     0.190     0.000     0.000
COEF-4           7   BH       0.000     0.280     0.000     0.000
COEF-4           8   BH       0.000     0.280     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   BK        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         2   BV        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         3   BC        2.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         4   BC        2.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         5   BC        3.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         6   BH       48.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         7   BH      189.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         8   BH      393.00      0.00      0.00      0.00      0.00      0.00
ENDATA19

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

CARD TYPE	ELEMENT	NAME	UNIT	FLOW m³/s	FLOW cfs	TEMP deg C	SALIN ppt	CM-I mg/L	CM-II umhos
HDWTR-1	1	Baker Canal East	0	0.00300	0.106	29.50	0.07	9.300	172.000
HDWTR-1	32	Bayou Verret	0	0.00300	0.106	29.50	0.25	64.900	502.400

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-2	1	Baker Canal East	7.21	2.64	0.00	0.00	0.00	0.00
HDWTR-2	32	Bayou Verret	7.21	3.94	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-3	1	Baker Canal East	0.00	0.00	0.00	2.22
HDWTR-3	32	Bayou Verret	0.00	0.00	0.00	0.92

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME
JUNCTION	64	31	35.20	Bayou Verret

ENDATA23

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

CARD TYPE	ELEMENT	RKILO	NAME	FLOW m³/s	FLOW cfs	FLOW MGD	TEMP deg C	SALIN ppt	CM-I mg/L	CM-II umhos
WSTLD-1	138	27.80	Middle Saint James	0.00300	0.10593	0.068	25.64	0.11	29.100	230.600
WSTLD-1	187	22.90	Grand Bayou	-0.00300	-0.10593	-0.068	0.00	0.00	0.000	0.000
WSTLD-1	255	16.10	Upper Saint James	0.00300	0.10593	0.068	26.07	0.13	31.700	272.600
WSTLD-1	268	14.80	Dredge Boat Canal	0.00300	0.10593	0.068	26.25	0.11	27.000	230.900

ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE	ELEMENT	NAME	DO mg/L	BOD mg/L	% BOD RMVL	ORG-N mg/L	NH3-N mg/L	% NITRIF	NO3-N mg/L	BOD#2 mg/L
WSTLD-2	138	Middle Saint James	7.21	3.72	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	187	Grand Bayou	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	255	Upper Saint James	7.21	3.30	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	268	Dredge Boat Canal	7.21	3.43	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 mg/L	CHL A mg/L	COLI mg/L	NCM mg/L
WSTLD-3	138	Middle Saint James	0.00	0.00	0.00	1.14
WSTLD-3	187	Grand Bayou	0.00	0.00	0.00	0.00
WSTLD-3	255	Upper Saint James	0.00	0.00	0.00	1.56
WSTLD-3	268	Dredge Boat Canal	0.00	0.00	0.00	1.43

ENDATA26

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

CARD TYPE	CONSTITUENT	CONCENTRATION		
LOWER BC	TEMPERATURE	=	29.500	deg C
LOWER BC	SALINITY	=	0.100	ppt
LOWER BC	CONSERVATIVE MATERIAL I (Cl)	=	53.300	mg/L
LOWER BC	CONSERVATIVE MATERIAL II (Cond)	=	236.700	umhos
LOWER BC	DISSOLVED OXYGEN	=	7.210	mg/L
LOWER BC	BIOCHEMICAL OXYGEN DEMAND	=	1.620	mg/L
LOWER BC	CHLOROPHYLL A	=	0.000	µg/L
LOWER BC	NONCONSERVATIVE MATERIAL (NBOD)	=	2.330	mg/L

ENDATA27

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

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

ENDATA28

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

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

ENDATA29

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

NUMBER OF PLOTS = 3
NUMBER OF REACHES IN PLOT 1 = 7
PLOT RCH 1 3 4 5 6 7 8
NUMBER OF REACHES IN PLOT 2 = 1
PLOT RCH 2

```
NUMBER OF REACHES IN PLOT 3 =   7
PLOT RCH  1  3  4  5  6  7  8
ENDATA30

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


OVERLAY 1 CHEV_PROJ.OVL                    Main Stem
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  16 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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CONDENSED CAPSULE SUMMARY FOR Baker Canal East

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	0.00300	29.50	0.07	7.21	2.64	0.00	0.00	0.00	0.00							
38.20	0.00300	29.50	0.08	5.16	0.24	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
38.10	0.00300	29.50	0.08	5.15	0.21	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
38.00	0.00300	29.50	0.08	5.13	0.19	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
37.90	0.00300	29.50	0.08	5.13	0.16	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
37.80	0.00300	29.50	0.08	5.13	0.15	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
37.70	0.00300	29.50	0.08	5.12	0.13	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
37.60	0.00300	29.50	0.08	5.12	0.12	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
37.50	0.00300	29.50	0.08	5.13	0.10	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
37.40	0.00300	29.50	0.08	5.13	0.09	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
37.30	0.00300	29.50	0.08	5.13	0.08	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
37.20	0.00300	29.50	0.08	5.13	0.08	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
37.10	0.00300	29.50	0.08	5.13	0.07	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
37.00	0.00300	29.50	0.08	5.13	0.07	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
36.90	0.00300	29.50	0.08	5.13	0.06	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
36.80	0.00300	29.50	0.08	5.14	0.06	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
36.70	0.00300	29.50	0.08	5.14	0.06	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
36.60	0.00300	29.50	0.08	5.14	0.06	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
36.50	0.00300	29.50	0.08	5.14	0.06	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
36.40	0.00300	29.50	0.08	5.14	0.06	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
36.30	0.00300	29.50	0.08	5.14	0.06	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
36.20	0.00300	29.50	0.08	5.14	0.07	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
36.10	0.00300	29.50	0.08	5.14	0.07	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
36.00	0.00300	29.50	0.08	5.14	0.08	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
35.90	0.00300	29.50	0.08	5.14	0.09	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
35.80	0.00300	29.50	0.08	5.14	0.10	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
35.70	0.00300	29.50	0.08	5.14	0.11	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
35.60	0.00300	29.50	0.08	5.15	0.12	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96

35.50	0.00300	29.50	0.08	5.15	0.14	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
35.40	0.00300	29.50	0.08	5.16	0.16	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
35.30	0.00300	29.50	0.08	5.17	0.18	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
35.20	0.00300	29.50	0.08	5.19	0.21	0.00	0.00	0.00	0.00	0.84	0.14	0.00	0.00	0.00	0.00	1.96
35.10	0.00600	29.50	0.08	5.21	0.24	0.00	0.00	0.00	0.00	0.85	0.14	0.00	0.00	0.00	0.00	1.74
35.00	0.00600	29.50	0.09	5.24	0.28	0.00	0.00	0.00	0.00	0.85	0.14	0.00	0.00	0.00	0.00	1.74
34.90	0.00600	29.50	0.10	5.26	0.30	0.00	0.00	0.00	0.00	0.85	0.14	0.00	0.00	0.00	0.00	1.75
34.80	0.00600	29.50	0.10	5.26	0.31	0.00	0.00	0.00	0.00	0.85	0.14	0.00	0.00	0.00	0.00	1.75
34.70	0.00600	29.50	0.11	5.24	0.30	0.00	0.00	0.00	0.00	0.85	0.14	0.00	0.00	0.00	0.00	1.75
34.60	0.00600	29.50	0.11	5.22	0.28	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
34.50	0.00600	29.50	0.11	5.19	0.25	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
34.40	0.00600	29.50	0.11	5.18	0.23	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
34.30	0.00600	29.50	0.11	5.17	0.22	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
34.20	0.00600	29.50	0.11	5.16	0.20	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
34.10	0.00600	29.50	0.11	5.16	0.19	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
34.00	0.00600	29.50	0.11	5.15	0.18	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
33.90	0.00600	29.50	0.11	5.15	0.17	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
33.80	0.00600	29.50	0.11	5.15	0.16	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
33.70	0.00600	29.50	0.11	5.15	0.15	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
33.60	0.00600	29.50	0.11	5.15	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
33.50	0.00600	29.50	0.11	5.15	0.14	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
33.40	0.00600	29.50	0.11	5.15	0.13	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
33.30	0.00600	29.50	0.11	5.15	0.13	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
33.20	0.00600	29.50	0.11	5.15	0.12	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
33.10	0.00600	29.50	0.11	5.15	0.12	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
33.00	0.00600	29.50	0.11	5.15	0.12	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
32.90	0.00600	29.50	0.11	5.15	0.11	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
32.80	0.00600	29.50	0.11	5.15	0.11	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
32.70	0.00600	29.50	0.11	5.15	0.11	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
32.60	0.00600	29.50	0.11	5.15	0.11	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
32.50	0.00600	29.50	0.11	5.15	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
32.40	0.00600	29.50	0.11	5.15	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
32.30	0.00600	29.50	0.11	5.15	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
32.20	0.00600	29.50	0.11	5.15	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
32.10	0.00600	29.50	0.11	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
32.00	0.00600	29.50	0.11	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
31.90	0.00600	29.50	0.11	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
31.80	0.00600	29.50	0.11	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
31.70	0.00600	29.50	0.11	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
31.60	0.00600	29.50	0.11	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
31.50	0.00600	29.50	0.10	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
31.40	0.00600	29.50	0.10	5.16	0.09	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
31.30	0.00600	29.50	0.10	5.16	0.09	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
31.20	0.00600	29.50	0.10	5.16	0.09	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
31.10	0.00600	29.50	0.10	5.16	0.09	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
31.00	0.00600	29.50	0.10	5.16	0.09	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
30.90	0.00600	29.50	0.10	5.16	0.09	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
30.80	0.00600	29.50	0.10	5.16	0.09	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
30.70	0.00600	29.50	0.10	5.16	0.09	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
30.60	0.00600	29.50	0.10	5.16	0.09	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
30.50	0.00600	29.50	0.10	5.16	0.09	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
30.40	0.00600	29.50	0.10	5.16	0.09	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
30.30	0.00600	29.50	0.10	5.16	0.09	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
30.20	0.00600	29.50	0.10	5.16	0.09	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
30.10	0.00600	29.50	0.10	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
30.00	0.00600	29.50	0.10	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95

29.90	0.00600	29.50	0.10	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
29.80	0.00600	29.50	0.10	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
29.70	0.00600	29.50	0.10	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
29.60	0.00600	29.50	0.10	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
29.50	0.00600	29.50	0.10	5.16	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
29.40	0.00600	29.50	0.10	5.15	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
29.30	0.00600	29.50	0.10	5.15	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
29.20	0.00600	29.50	0.10	5.15	0.10	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
29.10	0.00600	29.50	0.10	5.15	0.11	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
29.00	0.00600	29.50	0.10	5.15	0.11	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
28.90	0.00600	29.50	0.10	5.15	0.11	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
28.80	0.00600	29.50	0.10	5.15	0.12	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
28.70	0.00600	29.50	0.10	5.15	0.12	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
28.60	0.00600	29.50	0.10	5.15	0.13	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
28.50	0.00600	29.50	0.10	5.15	0.13	0.00	0.00	0.00	0.00	0.77	0.15	0.00	0.00	0.00	0.00	1.95
28.40	0.00600	29.50	0.10	5.16	0.14	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
28.30	0.00600	29.50	0.10	5.16	0.14	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
28.20	0.00600	29.50	0.10	5.16	0.14	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
28.10	0.00600	29.50	0.10	5.16	0.15	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
28.00	0.00600	29.50	0.10	5.16	0.16	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
27.90	0.00600	29.50	0.10	5.16	0.17	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
27.80	0.00600	29.50	0.10	5.17	0.18	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
27.70	0.00900	29.50	0.10	5.18	0.19	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
27.60	0.00900	29.50	0.10	5.17	0.18	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
27.50	0.00900	29.50	0.10	5.17	0.17	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
27.40	0.00900	29.50	0.10	5.16	0.16	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
27.30	0.00900	29.50	0.10	5.16	0.15	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
27.20	0.00900	29.50	0.10	5.16	0.14	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
27.10	0.00900	29.50	0.10	5.16	0.14	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
27.00	0.00900	29.50	0.11	5.16	0.13	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
26.90	0.00900	29.50	0.11	5.16	0.13	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
26.80	0.00900	29.50	0.11	5.16	0.12	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
26.70	0.00900	29.50	0.11	5.16	0.12	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
26.60	0.00900	29.50	0.11	5.17	0.12	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
26.50	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
26.40	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
26.30	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
26.20	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
26.10	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
26.00	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
25.90	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
25.80	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
25.70	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
25.60	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
25.50	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
25.40	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
25.30	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
25.20	0.00900	29.50	0.11	5.17	0.11	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
25.10	0.00900	29.50	0.11	5.17	0.12	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
25.00	0.00900	29.50	0.11	5.16	0.12	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
24.90	0.00900	29.50	0.11	5.16	0.12	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
24.80	0.00900	29.50	0.11	5.16	0.13	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
24.70	0.00900	29.50	0.11	5.16	0.13	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
24.60	0.00900	29.50	0.11	5.16	0.14	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
24.50	0.00900	29.50	0.11	5.16	0.15	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
24.40	0.00900	29.50	0.11	5.16	0.15	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93

24.30	0.00900	29.50	0.11	5.15	0.16	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
24.20	0.00900	29.50	0.12	5.15	0.18	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
24.10	0.00900	29.50	0.12	5.15	0.19	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
24.00	0.00900	29.50	0.12	5.15	0.20	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
23.90	0.00900	29.50	0.12	5.15	0.22	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
23.80	0.00900	29.50	0.12	5.15	0.24	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
23.70	0.00900	29.50	0.12	5.14	0.26	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
23.60	0.00900	29.50	0.12	5.14	0.29	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
23.50	0.00900	29.50	0.12	5.15	0.31	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
23.40	0.00900	29.50	0.12	5.15	0.35	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
23.30	0.00900	29.50	0.12	5.15	0.39	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
23.20	0.00900	29.50	0.12	5.16	0.43	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
23.10	0.00900	29.50	0.12	5.18	0.48	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
23.00	0.00900	29.50	0.12	5.20	0.54	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
22.90	0.00900	29.50	0.12	5.23	0.60	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
22.80	0.00600	29.50	0.12	5.27	0.68	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.00	0.00	1.93
22.70	0.00600	29.50	0.12	5.34	0.77	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
22.60	0.00600	29.50	0.12	5.39	0.85	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
22.50	0.00600	29.50	0.12	5.42	0.93	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
22.40	0.00600	29.50	0.12	5.45	0.99	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
22.30	0.00600	29.50	0.12	5.47	1.05	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
22.20	0.00600	29.50	0.12	5.48	1.11	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
22.10	0.00600	29.50	0.12	5.49	1.16	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
22.00	0.00600	29.50	0.12	5.49	1.20	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
21.90	0.00600	29.50	0.12	5.50	1.24	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
21.80	0.00600	29.50	0.12	5.50	1.28	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
21.70	0.00600	29.50	0.12	5.50	1.31	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
21.60	0.00600	29.50	0.12	5.50	1.34	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
21.50	0.00600	29.50	0.12	5.49	1.37	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
21.40	0.00600	29.50	0.12	5.49	1.39	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
21.30	0.00600	29.50	0.12	5.49	1.41	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
21.20	0.00600	29.50	0.12	5.49	1.43	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
21.10	0.00600	29.50	0.12	5.48	1.45	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
21.00	0.00600	29.50	0.12	5.48	1.46	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
20.90	0.00600	29.50	0.12	5.48	1.48	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
20.80	0.00600	29.50	0.12	5.48	1.49	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
20.70	0.00600	29.50	0.12	5.47	1.50	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
20.60	0.00600	29.50	0.12	5.47	1.51	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
20.50	0.00600	29.50	0.12	5.47	1.52	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
20.40	0.00600	29.50	0.12	5.47	1.53	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
20.30	0.00600	29.50	0.12	5.46	1.54	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
20.20	0.00600	29.50	0.12	5.46	1.55	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
20.10	0.00600	29.50	0.12	5.46	1.56	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
20.00	0.00600	29.50	0.12	5.46	1.56	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
19.90	0.00600	29.50	0.12	5.46	1.57	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
19.80	0.00600	29.50	0.12	5.45	1.58	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
19.70	0.00600	29.50	0.12	5.45	1.58	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
19.60	0.00600	29.50	0.12	5.45	1.59	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
19.50	0.00600	29.50	0.12	5.45	1.60	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
19.40	0.00600	29.50	0.12	5.45	1.60	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
19.30	0.00600	29.50	0.12	5.45	1.61	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
19.20	0.00600	29.50	0.12	5.44	1.62	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
19.10	0.00600	29.50	0.12	5.44	1.62	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
19.00	0.00600	29.50	0.12	5.44	1.63	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
18.90	0.00600	29.50	0.12	5.44	1.64	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
18.80	0.00600	29.50	0.12	5.43	1.65	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44

18.70	0.00600	29.50	0.12	5.43	1.66	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
18.60	0.00600	29.50	0.12	5.43	1.67	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
18.50	0.00600	29.50	0.12	5.43	1.68	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
18.40	0.00600	29.50	0.12	5.42	1.70	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
18.30	0.00600	29.50	0.12	5.42	1.71	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
18.20	0.00600	29.50	0.12	5.42	1.73	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
18.10	0.00600	29.50	0.12	5.41	1.75	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
18.00	0.00600	29.50	0.12	5.41	1.77	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
17.90	0.00600	29.50	0.12	5.40	1.79	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
17.80	0.00600	29.50	0.12	5.40	1.82	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
17.70	0.00600	29.50	0.12	5.39	1.85	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
17.60	0.00600	29.50	0.12	5.39	1.88	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
17.50	0.00600	29.50	0.12	5.39	1.92	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
17.40	0.00600	29.50	0.12	5.38	1.96	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
17.30	0.00600	29.50	0.12	5.38	2.01	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
17.20	0.00600	29.50	0.12	5.38	2.07	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
17.10	0.00600	29.50	0.12	5.38	2.13	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
17.00	0.00600	29.50	0.12	5.38	2.20	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
16.90	0.00600	29.50	0.12	5.39	2.27	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
16.80	0.00600	29.50	0.12	5.40	2.36	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
16.70	0.00600	29.50	0.12	5.43	2.46	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
16.60	0.00600	29.50	0.12	5.46	2.57	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
16.50	0.00600	29.50	0.12	5.50	2.70	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
16.40	0.00600	29.50	0.12	5.57	2.84	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
16.30	0.00600	29.50	0.12	5.65	3.00	0.00	0.00	0.00	0.00	0.68	0.15	0.00	0.00	0.00	0.00	1.44
16.20	0.00600	29.50	0.12	5.72	3.10	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
16.10	0.00600	29.50	0.12	5.75	3.16	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
16.00	0.00900	29.50	0.12	5.78	3.21	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
15.90	0.00900	29.50	0.12	5.80	3.26	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
15.80	0.00900	29.50	0.12	5.82	3.31	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
15.70	0.00900	29.50	0.12	5.83	3.35	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
15.60	0.00900	29.50	0.12	5.84	3.39	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
15.50	0.00900	29.50	0.12	5.84	3.43	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
15.40	0.00900	29.50	0.12	5.85	3.46	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
15.30	0.00900	29.50	0.12	5.85	3.49	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
15.20	0.00900	29.50	0.12	5.85	3.52	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
15.10	0.00900	29.50	0.12	5.85	3.54	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
15.00	0.00900	29.50	0.12	5.85	3.57	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
14.90	0.00900	29.50	0.12	5.85	3.59	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
14.80	0.00900	29.50	0.12	5.85	3.61	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
14.70	0.01200	29.50	0.12	5.85	3.63	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
14.60	0.01200	29.50	0.12	5.85	3.65	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
14.50	0.01200	29.50	0.12	5.85	3.66	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
14.40	0.01200	29.50	0.12	5.85	3.68	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
14.30	0.01200	29.50	0.12	5.84	3.69	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
14.20	0.01200	29.50	0.12	5.84	3.70	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
14.10	0.01200	29.50	0.12	5.84	3.72	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
14.00	0.01200	29.50	0.12	5.84	3.73	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
13.90	0.01200	29.50	0.12	5.84	3.74	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
13.80	0.01200	29.50	0.12	5.83	3.75	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
13.70	0.01200	29.50	0.12	5.83	3.76	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
13.60	0.01200	29.50	0.12	5.83	3.76	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
13.50	0.01200	29.50	0.12	5.83	3.77	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
13.40	0.01200	29.50	0.12	5.83	3.78	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
13.30	0.01200	29.50	0.12	5.83	3.79	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
13.20	0.01200	29.50	0.12	5.82	3.79	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78

13.10	0.01200	29.50	0.12	5.82	3.80	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
13.00	0.01200	29.50	0.12	5.82	3.80	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
12.90	0.01200	29.50	0.12	5.82	3.81	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
12.80	0.01200	29.50	0.12	5.82	3.82	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
12.70	0.01200	29.50	0.12	5.82	3.82	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
12.60	0.01200	29.50	0.12	5.82	3.83	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
12.50	0.01200	29.50	0.12	5.82	3.83	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
12.40	0.01200	29.50	0.12	5.81	3.84	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
12.30	0.01200	29.50	0.12	5.81	3.84	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
12.20	0.01200	29.50	0.12	5.81	3.85	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
12.10	0.01200	29.50	0.12	5.81	3.85	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
12.00	0.01200	29.50	0.12	5.81	3.86	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
11.90	0.01200	29.50	0.12	5.81	3.86	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
11.80	0.01200	29.50	0.12	5.81	3.87	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
11.70	0.01200	29.50	0.12	5.81	3.87	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
11.60	0.01200	29.50	0.12	5.81	3.88	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
11.50	0.01200	29.50	0.12	5.81	3.89	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
11.40	0.01200	29.50	0.12	5.81	3.89	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
11.30	0.01200	29.50	0.12	5.81	3.90	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
11.20	0.01200	29.50	0.12	5.81	3.91	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
11.10	0.01200	29.50	0.12	5.81	3.92	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
11.00	0.01200	29.50	0.12	5.81	3.93	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
10.90	0.01200	29.50	0.12	5.81	3.94	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
10.80	0.01200	29.50	0.12	5.81	3.95	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
10.70	0.01200	29.50	0.12	5.81	3.96	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
10.60	0.01200	29.50	0.12	5.81	3.97	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
10.50	0.01200	29.50	0.12	5.82	3.99	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
10.40	0.01200	29.50	0.12	5.82	4.00	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
10.30	0.01200	29.50	0.12	5.83	4.02	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
10.20	0.01200	29.50	0.12	5.84	4.04	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
10.10	0.01200	29.50	0.12	5.85	4.06	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
10.00	0.01200	29.50	0.12	5.86	4.08	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
9.90	0.01200	29.50	0.12	5.88	4.11	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
9.80	0.01200	29.50	0.12	5.90	4.13	0.00	0.00	0.00	0.00	0.51	0.11	0.00	0.00	0.00	0.00	0.78
9.70	0.01200	29.50	0.12	5.92	4.16	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
9.60	0.01200	29.50	0.12	5.94	4.17	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
9.50	0.01200	29.50	0.12	5.96	4.19	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
9.40	0.01200	29.50	0.12	5.97	4.21	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
9.30	0.01200	29.50	0.12	5.98	4.22	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
9.20	0.01200	29.50	0.12	5.98	4.24	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
9.10	0.01200	29.50	0.12	5.99	4.25	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
9.00	0.01200	29.50	0.12	5.99	4.26	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
8.90	0.01200	29.50	0.12	6.00	4.27	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
8.80	0.01200	29.50	0.12	6.00	4.28	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
8.70	0.01200	29.50	0.12	6.00	4.29	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
8.60	0.01200	29.50	0.12	6.00	4.30	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
8.50	0.01200	29.50	0.12	6.01	4.31	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
8.40	0.01200	29.50	0.12	6.01	4.32	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
8.30	0.01200	29.50	0.12	6.01	4.32	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
8.20	0.01200	29.50	0.12	6.01	4.33	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
8.10	0.01200	29.50	0.12	6.01	4.34	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
8.00	0.01200	29.50	0.12	6.01	4.34	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
7.90	0.01200	29.50	0.12	6.01	4.35	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
7.80	0.01200	29.50	0.12	6.01	4.35	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
7.70	0.01200	29.50	0.12	6.01	4.36	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
7.60	0.01200	29.50	0.12	6.01	4.36	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47

7.50	0.01200	29.50	0.12	6.01	4.36	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
7.40	0.01200	29.50	0.12	6.01	4.37	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
7.30	0.01200	29.50	0.12	6.01	4.37	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
7.20	0.01200	29.50	0.12	6.01	4.37	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
7.10	0.01200	29.50	0.12	6.01	4.37	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
7.00	0.01200	29.50	0.12	6.00	4.37	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
6.90	0.01200	29.50	0.12	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
6.80	0.01200	29.50	0.12	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
6.70	0.01200	29.50	0.12	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
6.60	0.01200	29.50	0.12	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
6.50	0.01200	29.50	0.12	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
6.40	0.01200	29.50	0.12	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
6.30	0.01200	29.50	0.12	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
6.20	0.01200	29.50	0.12	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
6.10	0.01200	29.50	0.12	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
6.00	0.01200	29.50	0.12	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
5.90	0.01200	29.50	0.12	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
5.80	0.01200	29.50	0.11	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
5.70	0.01200	29.50	0.11	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
5.60	0.01200	29.50	0.11	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
5.50	0.01200	29.50	0.11	6.00	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
5.40	0.01200	29.50	0.11	6.01	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
5.30	0.01200	29.50	0.11	6.01	4.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
5.20	0.01200	29.50	0.11	6.01	4.37	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
5.10	0.01200	29.50	0.11	6.01	4.37	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
5.00	0.01200	29.50	0.11	6.01	4.37	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
4.90	0.01200	29.50	0.11	6.01	4.37	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
4.80	0.01200	29.50	0.11	6.01	4.36	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
4.70	0.01200	29.50	0.11	6.01	4.36	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
4.60	0.01200	29.50	0.11	6.01	4.36	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
4.50	0.01200	29.50	0.11	6.01	4.35	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
4.40	0.01200	29.50	0.11	6.01	4.35	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
4.30	0.01200	29.50	0.11	6.01	4.34	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
4.20	0.01200	29.50	0.11	6.01	4.34	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
4.10	0.01200	29.50	0.11	6.02	4.33	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
4.00	0.01200	29.50	0.11	6.02	4.32	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
3.90	0.01200	29.50	0.11	6.02	4.31	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
3.80	0.01200	29.50	0.11	6.02	4.31	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
3.70	0.01200	29.50	0.11	6.02	4.30	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
3.60	0.01200	29.50	0.11	6.02	4.29	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
3.50	0.01200	29.50	0.11	6.02	4.28	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
3.40	0.01200	29.50	0.11	6.03	4.26	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
3.30	0.01200	29.50	0.11	6.03	4.25	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
3.20	0.01200	29.50	0.11	6.03	4.24	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
3.10	0.01200	29.50	0.11	6.03	4.22	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
3.00	0.01200	29.50	0.11	6.03	4.21	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
2.90	0.01200	29.50	0.11	6.03	4.19	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
2.80	0.01200	29.50	0.11	6.03	4.17	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
2.70	0.01200	29.50	0.11	6.04	4.15	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
2.60	0.01200	29.50	0.11	6.04	4.12	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
2.50	0.01200	29.50	0.11	6.04	4.10	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
2.40	0.01200	29.50	0.11	6.04	4.07	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
2.30	0.01200	29.50	0.11	6.04	4.04	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
2.20	0.01200	29.50	0.11	6.04	4.00	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
2.10	0.01200	29.50	0.11	6.04	3.97	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
2.00	0.01200	29.50	0.11	6.04	3.93	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47

1.90	0.01200	29.50	0.10	6.04	3.88	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
1.80	0.01200	29.50	0.10	6.04	3.84	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
1.70	0.01200	29.50	0.10	6.04	3.79	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
1.60	0.01200	29.50	0.10	6.04	3.73	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
1.50	0.01200	29.50	0.10	6.03	3.67	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
1.40	0.01200	29.50	0.10	6.03	3.60	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
1.30	0.01200	29.50	0.10	6.04	3.53	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
1.20	0.01200	29.50	0.10	6.04	3.45	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
1.10	0.01200	29.50	0.10	6.04	3.37	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
1.00	0.01200	29.50	0.10	6.05	3.27	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
0.90	0.01200	29.50	0.10	6.06	3.17	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
0.80	0.01200	29.50	0.10	6.08	3.06	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
0.70	0.01200	29.50	0.10	6.11	2.94	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
0.60	0.01200	29.50	0.10	6.16	2.81	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
0.50	0.01200	29.50	0.10	6.22	2.67	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
0.40	0.01200	29.50	0.10	6.30	2.51	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
0.30	0.01200	29.50	0.10	6.41	2.34	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
0.20	0.01200	29.50	0.10	6.57	2.16	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
0.10	0.01200	29.50	0.10	6.77	1.96	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47
0.00	0.01200	29.50	0.10	7.03	1.74	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.47

CONDENSED CAPSULE SUMMARY FOR Bayou Verret

DIST km	FLOW m^3/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 $g/m^2/d$
HDWTR	0.00300	29.50	0.25	7.21	3.94	0.00	0.00	0.00	0.00							
3.10	0.00300	29.50	0.19	5.17	0.50	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
3.00	0.00300	29.50	0.19	5.14	0.44	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
2.90	0.00300	29.50	0.18	5.13	0.39	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
2.80	0.00300	29.50	0.18	5.12	0.34	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
2.70	0.00300	29.50	0.18	5.12	0.30	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
2.60	0.00300	29.50	0.17	5.11	0.27	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
2.50	0.00300	29.50	0.17	5.12	0.24	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
2.40	0.00300	29.50	0.16	5.12	0.21	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
2.30	0.00300	29.50	0.16	5.12	0.19	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
2.20	0.00300	29.50	0.16	5.12	0.17	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
2.10	0.00300	29.50	0.15	5.12	0.15	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
2.00	0.00300	29.50	0.15	5.13	0.14	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
1.90	0.00300	29.50	0.15	5.13	0.12	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
1.80	0.00300	29.50	0.14	5.13	0.11	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
1.70	0.00300	29.50	0.14	5.13	0.10	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
1.60	0.00300	29.50	0.13	5.13	0.10	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
1.50	0.00300	29.50	0.13	5.13	0.09	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
1.40	0.00300	29.50	0.13	5.14	0.09	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
1.30	0.00300	29.50	0.12	5.14	0.08	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
1.20	0.00300	29.50	0.12	5.14	0.08	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
1.10	0.00300	29.50	0.12	5.14	0.08	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
1.00	0.00300	29.50	0.11	5.14	0.09	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
0.90	0.00300	29.50	0.11	5.14	0.09	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
0.80	0.00300	29.50	0.11	5.14	0.10	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
0.70	0.00300	29.50	0.10	5.14	0.10	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
0.60	0.00300	29.50	0.10	5.14	0.11	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
0.50	0.00300	29.50	0.09	5.15	0.12	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
0.40	0.00300	29.50	0.09	5.15	0.14	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
0.30	0.00300	29.50	0.09	5.16	0.16	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
0.20	0.00300	29.50	0.08	5.17	0.18	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
0.10	0.00300	29.50	0.08	5.18	0.20	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96
0.00	0.00300	29.50	0.08	5.20	0.23	0.00	0.00	0.00	0.00	1.10	0.14	0.00	0.00	0.00	0.00	1.96

********** 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	0.00300	29.50	0.07	9.30	172.00	7.21	2.64	0.00	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22

********** 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	38.30	38.20	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
2	38.20	38.10	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
3	38.10	38.00	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
4	38.00	37.90	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
5	37.90	37.80	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
6	37.80	37.70	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
7	37.70	37.60	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
8	37.60	37.50	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
9	37.50	37.40	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
10	37.40	37.30	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
11	37.30	37.20	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
12	37.20	37.10	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
13	37.10	37.00	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
14	37.00	36.90	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
15	36.90	36.80	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
16	36.80	36.70	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
17	36.70	36.60	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
18	36.60	36.50	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
19	36.50	36.40	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
20	36.40	36.30	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
21	36.30	36.20	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
22	36.20	36.10	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
23	36.10	36.00	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
24	36.00	35.90	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
25	35.90	35.80	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
26	35.80	35.70	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
27	35.70	35.60	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
28	35.60	35.50	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
29	35.50	35.40	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
30	35.40	35.30	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
31	35.30	35.20	0.00300	0.0	0.00012	9.84	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
TOT						305.00			79056.80	84103.00					
AVG					0.00012		0.94	27.13			25.50				
CUM						305.00									

********** 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	38.200	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
2	38.100	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
3	38.000	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
4	37.900	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
5	37.800	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
6	37.700	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
7	37.600	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
8	37.500	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
9	37.400	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
10	37.300	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
11	37.200	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
12	37.100	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
13	37.000	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
14	36.900	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
15	36.800	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
16	36.700	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
17	36.600	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
18	36.500	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
19	36.400	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
20	36.300	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
21	36.200	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
22	36.100	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
23	36.000	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
24	35.900	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
25	35.800	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
26	35.700	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
27	35.600	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
28	35.500	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
29	35.400	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
30	35.300	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
31	35.200	7.62	0.84	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
AVG 20 DEG C RATE			0.71	0.09	0.00	0.00	0.00	0.00	0.00	1.08			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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
1	38.200	29.50	0.08	27.44	277.68	5.16	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.16
2	38.100	29.50	0.08	27.68	279.11	5.15	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.14
3	38.000	29.50	0.08	27.93	280.56	5.13	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12
4	37.900	29.50	0.08	28.18	282.03	5.13	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
5	37.800	29.50	0.08	28.44	283.51	5.13	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
6	37.700	29.50	0.08	28.70	285.02	5.12	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
7	37.600	29.50	0.08	28.96	286.55	5.12	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
8	37.500	29.50	0.08	29.23	288.10	5.13	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
9	37.400	29.50	0.08	29.49	289.67	5.13	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04

10	37.300	29.50	0.08	29.77	291.26	5.13	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
11	37.200	29.50	0.08	30.04	292.87	5.13	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
12	37.100	29.50	0.08	30.33	294.51	5.13	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
13	37.000	29.50	0.08	30.61	296.16	5.13	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
14	36.900	29.50	0.08	30.90	297.84	5.13	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
15	36.800	29.50	0.08	31.19	299.54	5.14	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
16	36.700	29.50	0.08	31.49	301.27	5.14	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
17	36.600	29.50	0.08	31.79	303.01	5.14	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
18	36.500	29.50	0.08	32.09	304.79	5.14	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
19	36.400	29.50	0.08	32.40	306.58	5.14	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
20	36.300	29.50	0.08	32.71	308.40	5.14	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
21	36.200	29.50	0.08	33.03	310.24	5.14	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
22	36.100	29.50	0.08	33.35	312.11	5.14	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
23	36.000	29.50	0.08	33.67	314.01	5.14	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
24	35.900	29.50	0.08	34.00	315.93	5.14	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
25	35.800	29.50	0.08	34.34	317.87	5.14	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
26	35.700	29.50	0.08	34.67	319.85	5.14	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
27	35.600	29.50	0.08	35.02	321.84	5.15	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
28	35.500	29.50	0.08	35.36	323.87	5.15	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
29	35.400	29.50	0.08	35.72	325.92	5.16	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
30	35.300	29.50	0.08	36.07	328.00	5.17	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
31	35.200	29.50	0.08	36.44	330.11	5.19	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 3 Bayou Citamon SUMMER Projection Meeting DO Standard of 5 mg/L

********** 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
64	UPR RCH	0.00300	29.50	0.08	36.44	330.11	5.19	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	TRIB	0.00300	29.50	0.08	36.98	333.34	5.20	0.23	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
64	35.20	35.10	0.00600	0.0	0.00024	4.92	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
65	35.10	35.00	0.00600	0.0	0.00024	4.92	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
66	35.00	34.90	0.00600	0.0	0.00024	4.92	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
67	34.90	34.80	0.00600	0.0	0.00024	4.92	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
68	34.80	34.70	0.00600	0.0	0.00024	4.92	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.000
TOT						24.60			12751.10	13565.00					
AVG					0.00024		0.94	27.13			25.50				
CUM						329.60									

********** 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
64	35.100	7.62	0.85	0.14	0.00	0.00	0.00	0.00	0.00	1.75	1.75	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
65	35.000	7.62	0.85	0.14	0.00	0.00	0.00	0.00	0.00	1.75	1.75	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
66	34.900	7.62	0.85	0.14	0.00	0.00	0.00	0.00	0.00	1.75	1.75	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
67	34.800	7.62	0.85	0.14	0.00	0.00	0.00	0.00	0.00	1.75	1.75	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
68	34.700	7.62	0.85	0.14	0.00	0.00	0.00	0.00	0.00	1.75	1.75	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
AVG 20 DEG C RATE			0.71	0.09	0.00	0.00	0.00	0.00	0.00	0.96			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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
64	35.100	29.50	0.08	36.80	332.25	5.21	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
65	35.000	29.50	0.09	36.80	332.12	5.24	0.28	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
66	34.900	29.50	0.10	36.79	331.98	5.26	0.30	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
67	34.800	29.50	0.10	36.78	331.84	5.26	0.31	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
68	34.700	29.50	0.11	36.77	331.69	5.24	0.30	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 4 Bayou Citamon SUMMER Projection Meeting DO Standard of 5 mg/L

********** 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
69	UPR RCH	0.00600	29.50	0.11	36.77	331.69	5.24	0.30	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
69	34.70	34.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
70	34.60	34.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
71	34.50	34.40	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
72	34.40	34.30	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
73	34.30	34.20	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
74	34.20	34.10	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
75	34.10	34.00	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
76	34.00	33.90	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
77	33.90	33.80	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
78	33.80	33.70	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
79	33.70	33.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
80	33.60	33.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
81	33.50	33.40	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
82	33.40	33.30	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
83	33.30	33.20	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
84	33.20	33.10	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
85	33.10	33.00	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
86	33.00	32.90	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
87	32.90	32.80	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
88	32.80	32.70	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
89	32.70	32.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
90	32.60	32.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
91	32.50	32.40	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
92	32.40	32.30	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
93	32.30	32.20	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
94	32.20	32.10	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
95	32.10	32.00	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
96	32.00	31.90	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
97	31.90	31.80	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
98	31.80	31.70	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
99	31.70	31.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
100	31.60	31.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
101	31.50	31.40	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
102	31.40	31.30	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
103	31.30	31.20	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
104	31.20	31.10	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
105	31.10	31.00	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
106	31.00	30.90	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
107	30.90	30.80	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
108	30.80	30.70	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
109	30.70	30.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
110	30.60	30.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
111	30.50	30.40	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
112	30.40	30.30	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
113	30.30	30.20	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
114	30.20	30.10	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
115	30.10	30.00	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
116	30.00	29.90	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
117	29.90	29.80	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
118	29.80	29.70	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000

119	29.70	29.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
120	29.60	29.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
121	29.50	29.40	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
122	29.40	29.30	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
123	29.30	29.20	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
124	29.20	29.10	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
125	29.10	29.00	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
126	29.00	28.90	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
127	28.90	28.80	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
128	28.80	28.70	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
129	28.70	28.60	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
130	28.60	28.50	0.00600	0.0	0.00026	4.40	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.000
TOT						272.90			141469.11	136028.00					
AVG					0.00026		1.04	21.94			22.82				
CUM						602.50									

********** 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
69	34.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
70	34.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
71	34.400	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
72	34.300	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
73	34.200	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
74	34.100	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
75	34.000	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
76	33.900	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
77	33.800	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
78	33.700	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
79	33.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
80	33.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
81	33.400	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
82	33.300	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
83	33.200	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
84	33.100	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
85	33.000	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
86	32.900	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
87	32.800	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
88	32.700	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
89	32.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
90	32.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
91	32.400	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
92	32.300	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
93	32.200	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
94	32.100	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
95	32.000	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
96	31.900	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
97	31.800	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
98	31.700	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
99	31.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
100	31.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00

101	31.400	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
102	31.300	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
103	31.200	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
104	31.100	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
105	31.000	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
106	30.900	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
107	30.800	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
108	30.700	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
109	30.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
110	30.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
111	30.400	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
112	30.300	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
113	30.200	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
114	30.100	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
115	30.000	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
116	29.900	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
117	29.800	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
118	29.700	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
119	29.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
120	29.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
121	29.400	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
122	29.300	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
123	29.200	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
124	29.100	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
125	29.000	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
126	28.900	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
127	28.800	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
128	28.700	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
129	28.600	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
130	28.500	7.62	0.77	0.15	0.00	0.00	0.00	0.00	0.00	1.95	1.95	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
AVG 20 DEG C RATE			0.64	0.10	0.00	0.00	0.00	0.00	0.00	1.07			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.19	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
69	34.600	29.50	0.11	36.76	331.53	5.22	0.28	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
70	34.500	29.50	0.11	36.75	331.36	5.19	0.25	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
71	34.400	29.50	0.11	36.74	331.18	5.18	0.23	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
72	34.300	29.50	0.11	36.73	331.00	5.17	0.22	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
73	34.200	29.50	0.11	36.72	330.81	5.16	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
74	34.100	29.50	0.11	36.71	330.62	5.16	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
75	34.000	29.50	0.11	36.69	330.42	5.15	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
76	33.900	29.50	0.11	36.68	330.21	5.15	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
77	33.800	29.50	0.11	36.67	330.00	5.15	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
78	33.700	29.50	0.11	36.65	329.78	5.15	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
79	33.600	29.50	0.11	36.64	329.56	5.15	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
80	33.500	29.50	0.11	36.63	329.33	5.15	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
81	33.400	29.50	0.11	36.61	329.09	5.15	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
82	33.300	29.50	0.11	36.60	328.84	5.15	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
83	33.200	29.50	0.11	36.58	328.59	5.15	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

84	33.100	29.50	0.11	36.57	328.33	5.15	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
85	33.000	29.50	0.11	36.55	328.06	5.15	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
86	32.900	29.50	0.11	36.53	327.79	5.15	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
87	32.800	29.50	0.11	36.52	327.50	5.15	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
88	32.700	29.50	0.11	36.50	327.21	5.15	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
89	32.600	29.50	0.11	36.48	326.91	5.15	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
90	32.500	29.50	0.11	36.46	326.59	5.15	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
91	32.400	29.50	0.11	36.44	326.27	5.15	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
92	32.300	29.50	0.11	36.42	325.94	5.15	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
93	32.200	29.50	0.11	36.40	325.60	5.15	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
94	32.100	29.50	0.11	36.38	325.25	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
95	32.000	29.50	0.11	36.36	324.89	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
96	31.900	29.50	0.11	36.34	324.52	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
97	31.800	29.50	0.11	36.32	324.14	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
98	31.700	29.50	0.11	36.29	323.74	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
99	31.600	29.50	0.11	36.27	323.33	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
100	31.500	29.50	0.10	36.24	322.91	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
101	31.400	29.50	0.10	36.22	322.48	5.16	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
102	31.300	29.50	0.10	36.19	322.04	5.16	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
103	31.200	29.50	0.10	36.16	321.58	5.16	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
104	31.100	29.50	0.10	36.13	321.11	5.16	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
105	31.000	29.50	0.10	36.10	320.62	5.16	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
106	30.900	29.50	0.10	36.07	320.12	5.16	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
107	30.800	29.50	0.10	36.04	319.60	5.16	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
108	30.700	29.50	0.10	36.01	319.07	5.16	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
109	30.600	29.50	0.10	35.98	318.52	5.16	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
110	30.500	29.50	0.10	35.94	317.96	5.16	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
111	30.400	29.50	0.10	35.91	317.38	5.16	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
112	30.300	29.50	0.10	35.87	316.78	5.16	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
113	30.200	29.50	0.10	35.84	316.16	5.16	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
114	30.100	29.50	0.10	35.80	315.53	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
115	30.000	29.50	0.10	35.76	314.87	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
116	29.900	29.50	0.10	35.72	314.20	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
117	29.800	29.50	0.10	35.68	313.50	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
118	29.700	29.50	0.10	35.63	312.78	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
119	29.600	29.50	0.10	35.59	312.05	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
120	29.500	29.50	0.10	35.54	311.29	5.16	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
121	29.400	29.50	0.10	35.50	310.50	5.15	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
122	29.300	29.50	0.10	35.45	309.70	5.15	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
123	29.200	29.50	0.10	35.40	308.86	5.15	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
124	29.100	29.50	0.10	35.35	308.01	5.15	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
125	29.000	29.50	0.10	35.29	307.13	5.15	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
126	28.900	29.50	0.10	35.24	306.22	5.15	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
127	28.800	29.50	0.10	35.18	305.28	5.15	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
128	28.700	29.50	0.10	35.13	304.32	5.15	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
129	28.600	29.50	0.10	35.07	303.32	5.15	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
130	28.500	29.50	0.10	35.00	302.30	5.15	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 5 Bayou Citamon SUMMER Projection Meeting DO Standard of 5 mg/L

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

ELEM	TYPE	FLOW	TEMP	SALN	CL	COND	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NBOD

NO.			deg C	ppt	mg/L	umhos	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL	mg/L
131	UPR RCH	0.00600	29.50	0.10	35.00	302.30	5.15	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
138	WSTLD	0.00300	25.64	0.11	29.10	230.60	7.21	3.72	0.00	3.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14
187	WSTLD	-0.00300	29.50	0.12	35.29	292.28	5.27	0.68	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
131	28.50	28.40	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
132	28.40	28.30	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
133	28.30	28.20	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
134	28.20	28.10	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
135	28.10	28.00	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
136	28.00	27.90	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
137	27.90	27.80	0.00600	0.0	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
138	27.80	27.70	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
139	27.70	27.60	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
140	27.60	27.50	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
141	27.50	27.40	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
142	27.40	27.30	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
143	27.30	27.20	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
144	27.20	27.10	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
145	27.10	27.00	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
146	27.00	26.90	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
147	26.90	26.80	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
148	26.80	26.70	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
149	26.70	26.60	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
150	26.60	26.50	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
151	26.50	26.40	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
152	26.40	26.30	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
153	26.30	26.20	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
154	26.20	26.10	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
155	26.10	26.00	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
156	26.00	25.90	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
157	25.90	25.80	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
158	25.80	25.70	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
159	25.70	25.60	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
160	25.60	25.50	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
161	25.50	25.40	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
162	25.40	25.30	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
163	25.30	25.20	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
164	25.20	25.10	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
165	25.10	25.00	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
166	25.00	24.90	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
167	24.90	24.80	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
168	24.80	24.70	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
169	24.70	24.60	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
170	24.60	24.50	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
171	24.50	24.40	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
172	24.40	24.30	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
173	24.30	24.20	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000

174	24.20	24.10	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
175	24.10	24.00	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
176	24.00	23.90	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
177	23.90	23.80	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
178	23.80	23.70	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
179	23.70	23.60	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
180	23.60	23.50	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
181	23.50	23.40	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
182	23.40	23.30	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
183	23.30	23.20	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
184	23.20	23.10	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
185	23.10	23.00	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
186	23.00	22.90	0.00900	33.3	0.00023	5.11	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
187	22.90	22.80	0.00600	33.3	0.00015	7.66	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.000
TOT						311.48			226325.42	175446.00					
AVG					0.00021		1.29	30.78			39.71				
CUM						913.98									

********** 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
131	28.400	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
132	28.300	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
133	28.200	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
134	28.100	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
135	28.000	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
136	27.900	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
137	27.800	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
138	27.700	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
139	27.600	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
140	27.500	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
141	27.400	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
142	27.300	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
143	27.200	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
144	27.100	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
145	27.000	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
146	26.900	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
147	26.800	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
148	26.700	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
149	26.600	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
150	26.500	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
151	26.400	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
152	26.300	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
153	26.200	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
154	26.100	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
155	26.000	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
156	25.900	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
157	25.800	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
158	25.700	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
159	25.600	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
160	25.500	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00

161	25.400	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
162	25.300	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
163	25.200	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
164	25.100	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
165	25.000	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
166	24.900	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
167	24.800	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
168	24.700	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
169	24.600	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
170	24.500	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
171	24.400	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
172	24.300	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
173	24.200	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
174	24.100	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
175	24.000	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
176	23.900	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
177	23.800	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
178	23.700	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
179	23.600	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
180	23.500	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
181	23.400	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
182	23.300	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
183	23.200	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
184	23.100	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
185	23.000	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
186	22.900	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
187	22.800	7.62	0.62	0.15	0.00	0.00	0.00	0.00	0.00	1.93	1.93	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
AVG 20 DEG C RATE			0.52	0.10	0.00	0.00	0.00	0.00	0.00	1.06			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.19	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
131	28.400	29.50	0.10	34.97	301.65	5.16	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
132	28.300	29.50	0.10	34.94	301.17	5.16	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
133	28.200	29.50	0.10	34.91	300.68	5.16	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
134	28.100	29.50	0.10	34.88	300.19	5.16	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
135	28.000	29.50	0.10	34.85	299.69	5.16	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
136	27.900	29.50	0.10	34.82	299.18	5.16	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
137	27.800	29.50	0.10	34.79	298.67	5.17	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
138	27.700	29.50	0.10	34.76	298.15	5.18	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
139	27.600	29.50	0.10	34.76	298.08	5.17	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
140	27.500	29.50	0.10	34.77	298.01	5.17	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
141	27.400	29.50	0.10	34.78	297.93	5.16	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
142	27.300	29.50	0.10	34.78	297.86	5.16	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
143	27.200	29.50	0.10	34.79	297.78	5.16	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
144	27.100	29.50	0.10	34.80	297.70	5.16	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
145	27.000	29.50	0.11	34.80	297.62	5.16	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
146	26.900	29.50	0.11	34.81	297.54	5.16	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
147	26.800	29.50	0.11	34.82	297.46	5.16	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
148	26.700	29.50	0.11	34.83	297.37	5.16	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
149	26.600	29.50	0.11	34.84	297.28	5.17	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
150	26.500	29.50	0.11	34.84	297.19	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
151	26.400	29.50	0.11	34.85	297.10	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
152	26.300	29.50	0.11	34.86	297.01	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
153	26.200	29.50	0.11	34.87	296.92	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
154	26.100	29.50	0.11	34.88	296.82	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
155	26.000	29.50	0.11	34.89	296.72	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
156	25.900	29.50	0.11	34.90	296.62	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
157	25.800	29.50	0.11	34.91	296.52	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
158	25.700	29.50	0.11	34.91	296.42	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
159	25.600	29.50	0.11	34.92	296.31	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
160	25.500	29.50	0.11	34.93	296.20	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
161	25.400	29.50	0.11	34.94	296.09	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
162	25.300	29.50	0.11	34.95	295.98	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
163	25.200	29.50	0.11	34.97	295.86	5.17	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
164	25.100	29.50	0.11	34.98	295.75	5.17	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
165	25.000	29.50	0.11	34.99	295.63	5.16	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
166	24.900	29.50	0.11	35.00	295.50	5.16	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
167	24.800	29.50	0.11	35.01	295.38	5.16	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
168	24.700	29.50	0.11	35.02	295.25	5.16	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
169	24.600	29.50	0.11	35.03	295.12	5.16	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
170	24.500	29.50	0.11	35.05	294.99	5.16	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
171	24.400	29.50	0.11	35.06	294.85	5.16	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
172	24.300	29.50	0.11	35.07	294.72	5.15	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
173	24.200	29.50	0.12	35.08	294.57	5.15	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
174	24.100	29.50	0.12	35.10	294.43	5.15	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
175	24.000	29.50	0.12	35.11	294.28	5.15	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
176	23.900	29.50	0.12	35.12	294.14	5.15	0.22	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
177	23.800	29.50	0.12	35.14	293.98	5.15	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
178	23.700	29.50	0.12	35.15	293.83	5.14	0.26	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
179	23.600	29.50	0.12	35.17	293.67	5.14	0.29	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
180	23.500	29.50	0.12	35.18	293.51	5.15	0.31	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
181	23.400	29.50	0.12	35.20	293.34	5.15	0.35	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

182	23.300	29.50	0.12	35.21	293.17	5.15	0.39	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
183	23.200	29.50	0.12	35.23	293.00	5.16	0.43	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
184	23.100	29.50	0.12	35.24	292.82	5.18	0.48	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
185	23.000	29.50	0.12	35.26	292.65	5.20	0.54	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
186	22.900	29.50	0.12	35.28	292.46	5.23	0.60	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
187	22.800	29.50	0.12	35.29	292.28	5.27	0.68	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT Baker Canal East
REACH NO. 6 Bayou Chevreuil

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
SUMMER Projection Meeting DO Standard of 5 mg/L

********** 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
188	UPR RCH	0.00600	29.50	0.12	35.29	292.28	5.27	0.68	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
188	22.80	22.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
189	22.70	22.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
190	22.60	22.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
191	22.50	22.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
192	22.40	22.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
193	22.30	22.20	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
194	22.20	22.10	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
195	22.10	22.00	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
196	22.00	21.90	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
197	21.90	21.80	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
198	21.80	21.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
199	21.70	21.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
200	21.60	21.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
201	21.50	21.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
202	21.40	21.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
203	21.30	21.20	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
204	21.20	21.10	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
205	21.10	21.00	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
206	21.00	20.90	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
207	20.90	20.80	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
208	20.80	20.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
209	20.70	20.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
210	20.60	20.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
211	20.50	20.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
212	20.40	20.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
213	20.30	20.20	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
214	20.20	20.10	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
215	20.10	20.00	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
216	20.00	19.90	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
217	19.90	19.80	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000

218	19.80	19.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
219	19.70	19.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
220	19.60	19.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
221	19.50	19.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
222	19.40	19.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
223	19.30	19.20	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
224	19.20	19.10	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
225	19.10	19.00	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
226	19.00	18.90	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
227	18.90	18.80	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
228	18.80	18.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
229	18.70	18.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
230	18.60	18.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
231	18.50	18.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
232	18.40	18.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
233	18.30	18.20	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
234	18.20	18.10	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
235	18.10	18.00	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
236	18.00	17.90	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
237	17.90	17.80	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
238	17.80	17.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
239	17.70	17.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
240	17.60	17.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
241	17.50	17.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
242	17.40	17.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
243	17.30	17.20	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
244	17.20	17.10	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
245	17.10	17.00	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
246	17.00	16.90	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
247	16.90	16.80	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
248	16.80	16.70	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
249	16.70	16.60	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
250	16.60	16.50	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
251	16.50	16.40	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
252	16.40	16.30	0.00600	33.3	0.00020	5.78	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.000
TOT						375.56			194688.12	166400.00					
AVG					0.00020		1.17	25.60			29.95				
CUM						1289.54									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
188	22.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
189	22.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
190	22.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
191	22.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
192	22.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
193	22.200	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
194	22.100	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
195	22.000	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
196	21.900	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
197	21.800	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
198	21.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
199	21.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
200	21.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
201	21.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
202	21.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
203	21.200	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
204	21.100	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
205	21.000	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
206	20.900	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
207	20.800	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
208	20.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
209	20.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
210	20.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
211	20.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
212	20.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
213	20.200	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
214	20.100	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
215	20.000	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
216	19.900	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
217	19.800	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
218	19.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
219	19.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
220	19.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
221	19.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
222	19.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
223	19.200	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
224	19.100	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
225	19.000	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
226	18.900	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
227	18.800	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
228	18.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
229	18.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
230	18.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
231	18.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
232	18.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
233	18.200	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
234	18.100	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
235	18.000	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
236	17.900	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
237	17.800	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00

238	17.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
239	17.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
240	17.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
241	17.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
242	17.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
243	17.200	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
244	17.100	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
245	17.000	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
246	16.900	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
247	16.800	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
248	16.700	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
249	16.600	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
250	16.500	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
251	16.400	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
252	16.300	7.62	0.68	0.15	0.00	0.00	0.00	0.00	0.00	1.44	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
AVG 20 DEG C RATE			0.57	0.10	0.00	0.00	0.00	0.00	0.00	0.79			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.19	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
188	22.700	29.50	0.12	35.31	292.08	5.34	0.77	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
189	22.600	29.50	0.12	35.33	291.87	5.39	0.85	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
190	22.500	29.50	0.12	35.35	291.66	5.42	0.93	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
191	22.400	29.50	0.12	35.37	291.45	5.45	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
192	22.300	29.50	0.12	35.39	291.23	5.47	1.05	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
193	22.200	29.50	0.12	35.41	291.01	5.48	1.11	0.00	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
194	22.100	29.50	0.12	35.43	290.79	5.49	1.16	0.00	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
195	22.000	29.50	0.12	35.45	290.56	5.49	1.20	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
196	21.900	29.50	0.12	35.47	290.33	5.50	1.24	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
197	21.800	29.50	0.12	35.49	290.10	5.50	1.28	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
198	21.700	29.50	0.12	35.51	289.86	5.50	1.31	0.00	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
199	21.600	29.50	0.12	35.54	289.62	5.50	1.34	0.00	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
200	21.500	29.50	0.12	35.56	289.38	5.49	1.37	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
201	21.400	29.50	0.12	35.58	289.13	5.49	1.39	0.00	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
202	21.300	29.50	0.12	35.60	288.88	5.49	1.41	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
203	21.200	29.50	0.12	35.63	288.63	5.49	1.43	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
204	21.100	29.50	0.12	35.65	288.37	5.48	1.45	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
205	21.000	29.50	0.12	35.67	288.11	5.48	1.46	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
206	20.900	29.50	0.12	35.70	287.84	5.48	1.48	0.00	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
207	20.800	29.50	0.12	35.72	287.57	5.48	1.49	0.00	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
208	20.700	29.50	0.12	35.75	287.30	5.47	1.50	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
209	20.600	29.50	0.12	35.77	287.02	5.47	1.51	0.00	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
210	20.500	29.50	0.12	35.80	286.74	5.47	1.52	0.00	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
211	20.400	29.50	0.12	35.82	286.46	5.47	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
212	20.300	29.50	0.12	35.85	286.17	5.46	1.54	0.00	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
213	20.200	29.50	0.12	35.88	285.87	5.46	1.55	0.00	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
214	20.100	29.50	0.12	35.90	285.58	5.46	1.56	0.00	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
215	20.000	29.50	0.12	35.93	285.27	5.46	1.56	0.00	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
216	19.900	29.50	0.12	35.96	284.97	5.46	1.57	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
217	19.800	29.50	0.12	35.99	284.66	5.45	1.58	0.00	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

218	19.700	29.50	0.12	36.02	284.34	5.45	1.58	0.00	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
219	19.600	29.50	0.12	36.05	284.02	5.45	1.59	0.00	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
220	19.500	29.50	0.12	36.08	283.70	5.45	1.60	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
221	19.400	29.50	0.12	36.11	283.37	5.45	1.60	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
222	19.300	29.50	0.12	36.14	283.03	5.45	1.61	0.00	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
223	19.200	29.50	0.12	36.17	282.69	5.44	1.62	0.00	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
224	19.100	29.50	0.12	36.20	282.35	5.44	1.62	0.00	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
225	19.000	29.50	0.12	36.23	282.00	5.44	1.63	0.00	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
226	18.900	29.50	0.12	36.26	281.64	5.44	1.64	0.00	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
227	18.800	29.50	0.12	36.30	281.28	5.43	1.65	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
228	18.700	29.50	0.12	36.33	280.92	5.43	1.66	0.00	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
229	18.600	29.50	0.12	36.36	280.55	5.43	1.67	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
230	18.500	29.50	0.12	36.40	280.17	5.43	1.68	0.00	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
231	18.400	29.50	0.12	36.43	279.79	5.42	1.70	0.00	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
232	18.300	29.50	0.12	36.47	279.40	5.42	1.71	0.00	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
233	18.200	29.50	0.12	36.50	279.01	5.42	1.73	0.00	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
234	18.100	29.50	0.12	36.54	278.61	5.41	1.75	0.00	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
235	18.000	29.50	0.12	36.57	278.21	5.41	1.77	0.00	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
236	17.900	29.50	0.12	36.61	277.80	5.40	1.79	0.00	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
237	17.800	29.50	0.12	36.65	277.38	5.40	1.82	0.00	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
238	17.700	29.50	0.12	36.69	276.96	5.39	1.85	0.00	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
239	17.600	29.50	0.12	36.73	276.54	5.39	1.88	0.00	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
240	17.500	29.50	0.12	36.77	276.10	5.39	1.92	0.00	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
241	17.400	29.50	0.12	36.81	275.66	5.38	1.96	0.00	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
242	17.300	29.50	0.12	36.85	275.21	5.38	2.01	0.00	2.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
243	17.200	29.50	0.12	36.89	274.76	5.38	2.07	0.00	2.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
244	17.100	29.50	0.12	36.93	274.30	5.38	2.13	0.00	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
245	17.000	29.50	0.12	36.97	273.83	5.38	2.20	0.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
246	16.900	29.50	0.12	37.01	273.36	5.39	2.27	0.00	2.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
247	16.800	29.50	0.12	37.06	272.88	5.40	2.36	0.00	2.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
248	16.700	29.50	0.12	37.10	272.39	5.43	2.46	0.00	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
249	16.600	29.50	0.12	37.15	271.90	5.46	2.57	0.00	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
250	16.500	29.50	0.12	37.19	271.40	5.50	2.70	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
251	16.400	29.50	0.12	37.24	270.89	5.57	2.84	0.00	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
252	16.300	29.50	0.12	37.28	270.37	5.65	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01

********** 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
253	UPR RCH	0.00600	29.50	0.12	37.28	270.37	5.65	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
255	WSTLD	0.00300	26.07	0.13	31.70	272.60	7.21	3.30	0.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.56
268	WSTLD	0.00300	26.25	0.11	27.00	230.90	7.21	3.43	0.00	3.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43

********** 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
253	16.30	16.20	0.00600	33.3	0.00009	13.48	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
254	16.20	16.10	0.00600	33.3	0.00009	13.48	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
255	16.10	16.00	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
256	16.00	15.90	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
257	15.90	15.80	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
258	15.80	15.70	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
259	15.70	15.60	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
260	15.60	15.50	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
261	15.50	15.40	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
262	15.40	15.30	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
263	15.30	15.20	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
264	15.20	15.10	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
265	15.10	15.00	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
266	15.00	14.90	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
267	14.90	14.80	0.00900	55.6	0.00013	8.98	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
268	14.80	14.70	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
269	14.70	14.60	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
270	14.60	14.50	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
271	14.50	14.40	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
272	14.40	14.30	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
273	14.30	14.20	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
274	14.20	14.10	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
275	14.10	14.00	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
276	14.00	13.90	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
277	13.90	13.80	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
278	13.80	13.70	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
279	13.70	13.60	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
280	13.60	13.50	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
281	13.50	13.40	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
282	13.40	13.30	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
283	13.30	13.20	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
284	13.20	13.10	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
285	13.10	13.00	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
286	13.00	12.90	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
287	12.90	12.80	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
288	12.80	12.70	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000

289	12.70	12.60	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
290	12.60	12.50	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
291	12.50	12.40	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
292	12.40	12.30	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
293	12.30	12.20	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
294	12.20	12.10	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
295	12.10	12.00	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
296	12.00	11.90	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
297	11.90	11.80	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
298	11.80	11.70	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
299	11.70	11.60	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
300	11.60	11.50	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
301	11.50	11.40	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
302	11.40	11.30	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
303	11.30	11.20	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
304	11.20	11.10	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
305	11.10	11.00	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
306	11.00	10.90	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
307	10.90	10.80	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
308	10.80	10.70	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
309	10.70	10.60	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
310	10.60	10.50	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
311	10.50	10.40	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
312	10.40	10.30	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
313	10.30	10.20	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
314	10.20	10.10	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
315	10.10	10.00	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
316	10.00	9.90	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
317	9.90	9.80	0.01200	66.7	0.00017	6.74	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.000
TOT						480.68			454122.53	289250.00					
AVG					0.00016		1.57	44.50			69.87				
CUM						1770.22									

********** 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
253	16.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
254	16.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
255	16.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
256	15.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
257	15.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
258	15.700	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
259	15.600	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
260	15.500	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
261	15.400	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
262	15.300	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
263	15.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
264	15.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
265	15.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
266	14.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
267	14.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00

268	14.700	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
269	14.600	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
270	14.500	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
271	14.400	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
272	14.300	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
273	14.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
274	14.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
275	14.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
276	13.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
277	13.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
278	13.700	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
279	13.600	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
280	13.500	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
281	13.400	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
282	13.300	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
283	13.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
284	13.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
285	13.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
286	12.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
287	12.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
288	12.700	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
289	12.600	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
290	12.500	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
291	12.400	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
292	12.300	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
293	12.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
294	12.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
295	12.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
296	11.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
297	11.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
298	11.700	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
299	11.600	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
300	11.500	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
301	11.400	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
302	11.300	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
303	11.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
304	11.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
305	11.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
306	10.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
307	10.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
308	10.700	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
309	10.600	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
310	10.500	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
311	10.400	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
312	10.300	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
313	10.200	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
314	10.100	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
315	10.000	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
316	9.900	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
317	9.800	7.62	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
AVG 20 DEG C RATE			0.42	0.07	0.00	0.00	0.00	0.00	0.00	0.43			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.28	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
253	16.200	29.50	0.12	37.31	270.09	5.72	3.10	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
254	16.100	29.50	0.12	37.33	269.90	5.75	3.16	0.00	3.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
255	16.000	29.50	0.12	37.34	269.71	5.78	3.21	0.00	3.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
256	15.900	29.50	0.12	37.38	269.51	5.80	3.26	0.00	3.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
257	15.800	29.50	0.12	37.41	269.30	5.82	3.31	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
258	15.700	29.50	0.12	37.44	269.10	5.83	3.35	0.00	3.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
259	15.600	29.50	0.12	37.48	268.89	5.84	3.39	0.00	3.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
260	15.500	29.50	0.12	37.51	268.69	5.84	3.43	0.00	3.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
261	15.400	29.50	0.12	37.54	268.48	5.85	3.46	0.00	3.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
262	15.300	29.50	0.12	37.58	268.27	5.85	3.49	0.00	3.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
263	15.200	29.50	0.12	37.61	268.05	5.85	3.52	0.00	3.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
264	15.100	29.50	0.12	37.65	267.84	5.85	3.54	0.00	3.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
265	15.000	29.50	0.12	37.68	267.62	5.85	3.57	0.00	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
266	14.900	29.50	0.12	37.72	267.41	5.85	3.59	0.00	3.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
267	14.800	29.50	0.12	37.75	267.19	5.85	3.61	0.00	3.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
268	14.700	29.50	0.12	37.79	266.97	5.85	3.63	0.00	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
269	14.600	29.50	0.12	37.85	266.84	5.85	3.65	0.00	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
270	14.500	29.50	0.12	37.92	266.71	5.85	3.66	0.00	3.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
271	14.400	29.50	0.12	37.98	266.58	5.85	3.68	0.00	3.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
272	14.300	29.50	0.12	38.05	266.45	5.84	3.69	0.00	3.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
273	14.200	29.50	0.12	38.12	266.32	5.84	3.70	0.00	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
274	14.100	29.50	0.12	38.18	266.18	5.84	3.72	0.00	3.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
275	14.000	29.50	0.12	38.25	266.05	5.84	3.73	0.00	3.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
276	13.900	29.50	0.12	38.32	265.91	5.84	3.74	0.00	3.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
277	13.800	29.50	0.12	38.39	265.77	5.83	3.75	0.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
278	13.700	29.50	0.12	38.46	265.63	5.83	3.76	0.00	3.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
279	13.600	29.50	0.12	38.53	265.49	5.83	3.76	0.00	3.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
280	13.500	29.50	0.12	38.61	265.35	5.83	3.77	0.00	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
281	13.400	29.50	0.12	38.68	265.20	5.83	3.78	0.00	3.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
282	13.300	29.50	0.12	38.75	265.06	5.83	3.79	0.00	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
283	13.200	29.50	0.12	38.83	264.91	5.82	3.79	0.00	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
284	13.100	29.50	0.12	38.90	264.76	5.82	3.80	0.00	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
285	13.000	29.50	0.12	38.98	264.61	5.82	3.80	0.00	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
286	12.900	29.50	0.12	39.06	264.46	5.82	3.81	0.00	3.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
287	12.800	29.50	0.12	39.13	264.30	5.82	3.82	0.00	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
288	12.700	29.50	0.12	39.21	264.15	5.82	3.82	0.00	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
289	12.600	29.50	0.12	39.29	263.99	5.82	3.83	0.00	3.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
290	12.500	29.50	0.12	39.37	263.83	5.82	3.83	0.00	3.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
291	12.400	29.50	0.12	39.45	263.67	5.81	3.84	0.00	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
292	12.300	29.50	0.12	39.54	263.51	5.81	3.84	0.00	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
293	12.200	29.50	0.12	39.62	263.35	5.81	3.85	0.00	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
294	12.100	29.50	0.12	39.70	263.19	5.81	3.85	0.00	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
295	12.000	29.50	0.12	39.79	263.02	5.81	3.86	0.00	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
296	11.900	29.50	0.12	39.87	262.85	5.81	3.86	0.00	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
297	11.800	29.50	0.12	39.96	262.68	5.81	3.87	0.00	3.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
298	11.700	29.50	0.12	40.05	262.51	5.81	3.87	0.00	3.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
299	11.600	29.50	0.12	40.14	262.33	5.81	3.88	0.00	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
300	11.500	29.50	0.12	40.22	262.16	5.81	3.89	0.00	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
301	11.400	29.50	0.12	40.31	261.98	5.81	3.89	0.00	3.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
302	11.300	29.50	0.12	40.41	261.80	5.81	3.90	0.00	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
303	11.200	29.50	0.12	40.50	261.62	5.81	3.91	0.00	3.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

304	11.100	29.50	0.12	40.59	261.44	5.81	3.92	0.00	3.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
305	11.000	29.50	0.12	40.68	261.25	5.81	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
306	10.900	29.50	0.12	40.78	261.07	5.81	3.94	0.00	3.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
307	10.800	29.50	0.12	40.88	260.88	5.81	3.95	0.00	3.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
308	10.700	29.50	0.12	40.97	260.69	5.81	3.96	0.00	3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
309	10.600	29.50	0.12	41.07	260.50	5.81	3.97	0.00	3.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
310	10.500	29.50	0.12	41.17	260.30	5.82	3.99	0.00	3.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
311	10.400	29.50	0.12	41.27	260.10	5.82	4.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
312	10.300	29.50	0.12	41.37	259.91	5.83	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
313	10.200	29.50	0.12	41.47	259.71	5.84	4.04	0.00	4.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
314	10.100	29.50	0.12	41.58	259.50	5.85	4.06	0.00	4.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
315	10.000	29.50	0.12	41.68	259.30	5.86	4.08	0.00	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
316	9.900	29.50	0.12	41.79	259.09	5.88	4.11	0.00	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
317	9.800	29.50	0.12	41.89	258.88	5.90	4.13	0.00	4.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 8 Bayou Chevreuil SUMMER Projection Meeting DO Standard of 5 mg/L

********** 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
318	UPR RCH	0.01200	29.50	0.12	41.89	258.88	5.90	4.13	0.00	4.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
318	9.80	9.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
319	9.70	9.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
320	9.60	9.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
321	9.50	9.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
322	9.40	9.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
323	9.30	9.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
324	9.20	9.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
325	9.10	9.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
326	9.00	8.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
327	8.90	8.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
328	8.80	8.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
329	8.70	8.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
330	8.60	8.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
331	8.50	8.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
332	8.40	8.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
333	8.30	8.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
334	8.20	8.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
335	8.10	8.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
336	8.00	7.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
337	7.90	7.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
338	7.80	7.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
339	7.70	7.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000

340	7.60	7.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
341	7.50	7.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
342	7.40	7.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
343	7.30	7.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
344	7.20	7.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
345	7.10	7.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
346	7.00	6.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
347	6.90	6.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
348	6.80	6.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
349	6.70	6.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
350	6.60	6.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
351	6.50	6.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
352	6.40	6.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
353	6.30	6.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
354	6.20	6.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
355	6.10	6.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
356	6.00	5.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
357	5.90	5.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
358	5.80	5.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
359	5.70	5.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
360	5.60	5.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
361	5.50	5.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
362	5.40	5.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
363	5.30	5.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
364	5.20	5.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
365	5.10	5.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
366	5.00	4.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
367	4.90	4.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
368	4.80	4.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
369	4.70	4.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
370	4.60	4.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
371	4.50	4.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
372	4.40	4.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
373	4.30	4.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
374	4.20	4.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
375	4.10	4.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
376	4.00	3.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
377	3.90	3.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
378	3.80	3.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
379	3.70	3.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
380	3.60	3.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
381	3.50	3.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
382	3.40	3.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
383	3.30	3.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
384	3.20	3.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
385	3.10	3.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
386	3.00	2.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
387	2.90	2.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
388	2.80	2.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
389	2.70	2.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
390	2.60	2.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
391	2.50	2.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
392	2.40	2.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
393	2.30	2.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
394	2.20	2.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
395	2.10	2.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000

396	2.00	1.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
397	1.90	1.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
398	1.80	1.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
399	1.70	1.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
400	1.60	1.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
401	1.50	1.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
402	1.40	1.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
403	1.30	1.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
404	1.20	1.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
405	1.10	1.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
406	1.00	0.90	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
407	0.90	0.80	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
408	0.80	0.70	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
409	0.70	0.60	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
410	0.60	0.50	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
411	0.50	0.40	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
412	0.40	0.30	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
413	0.30	0.20	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
414	0.20	0.10	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
415	0.10	0.00	0.01200	66.7	0.00014	8.09	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.000
TOT						793.13			822316.06	480886.00					
AVG					0.00014		1.71	49.07			83.91				
CUM						2563.35									

********** 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
318	9.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
319	9.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
320	9.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
321	9.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
322	9.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
323	9.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
324	9.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
325	9.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
326	8.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
327	8.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
328	8.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
329	8.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
330	8.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
331	8.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
332	8.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
333	8.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
334	8.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
335	8.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
336	7.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
337	7.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
338	7.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
339	7.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
340	7.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
341	7.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00

342	7.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
343	7.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
344	7.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
345	7.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
346	6.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
347	6.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
348	6.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
349	6.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
350	6.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
351	6.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
352	6.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
353	6.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
354	6.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
355	6.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
356	5.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
357	5.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
358	5.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
359	5.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
360	5.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
361	5.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
362	5.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
363	5.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
364	5.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
365	5.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
366	4.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
367	4.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
368	4.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
369	4.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
370	4.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
371	4.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
372	4.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
373	4.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
374	4.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
375	4.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
376	3.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
377	3.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
378	3.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
379	3.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
380	3.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
381	3.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
382	3.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
383	3.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
384	3.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
385	3.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
386	2.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
387	2.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
388	2.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
389	2.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
390	2.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
391	2.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
392	2.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
393	2.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
394	2.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
395	2.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
396	1.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
397	1.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00

398	1.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
399	1.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
400	1.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
401	1.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
402	1.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
403	1.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
404	1.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
405	1.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
406	0.900	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
407	0.800	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
408	0.700	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
409	0.600	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
410	0.500	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
411	0.400	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
412	0.300	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
413	0.200	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
414	0.100	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
415	0.000	7.62	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
AVG 20 DEG C RATE			0.39	0.07	0.00	0.00	0.00	0.00	0.00	0.26			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.28	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
318	9.700	29.50	0.12	41.98	258.70	5.92	4.16	0.00	4.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
319	9.600	29.50	0.12	42.06	258.55	5.94	4.17	0.00	4.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
320	9.500	29.50	0.12	42.14	258.40	5.96	4.19	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
321	9.400	29.50	0.12	42.22	258.24	5.97	4.21	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
322	9.300	29.50	0.12	42.30	258.08	5.98	4.22	0.00	4.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
323	9.200	29.50	0.12	42.38	257.92	5.98	4.24	0.00	4.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
324	9.100	29.50	0.12	42.47	257.76	5.99	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
325	9.000	29.50	0.12	42.55	257.60	5.99	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
326	8.900	29.50	0.12	42.63	257.44	6.00	4.27	0.00	4.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
327	8.800	29.50	0.12	42.71	257.28	6.00	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
328	8.700	29.50	0.12	42.80	257.11	6.00	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
329	8.600	29.50	0.12	42.88	256.95	6.00	4.30	0.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
330	8.500	29.50	0.12	42.97	256.78	6.01	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
331	8.400	29.50	0.12	43.05	256.61	6.01	4.32	0.00	4.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
332	8.300	29.50	0.12	43.14	256.44	6.01	4.32	0.00	4.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
333	8.200	29.50	0.12	43.23	256.27	6.01	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
334	8.100	29.50	0.12	43.32	256.10	6.01	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
335	8.000	29.50	0.12	43.41	255.93	6.01	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
336	7.900	29.50	0.12	43.49	255.75	6.01	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
337	7.800	29.50	0.12	43.58	255.57	6.01	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
338	7.700	29.50	0.12	43.68	255.40	6.01	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
339	7.600	29.50	0.12	43.77	255.22	6.01	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
340	7.500	29.50	0.12	43.86	255.04	6.01	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
341	7.400	29.50	0.12	43.95	254.86	6.01	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
342	7.300	29.50	0.12	44.05	254.67	6.01	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
343	7.200	29.50	0.12	44.14	254.49	6.01	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
344	7.100	29.50	0.12	44.24	254.30	6.01	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
345	7.000	29.50	0.12	44.33	254.12	6.00	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
346	6.900	29.50	0.12	44.43	253.93	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
347	6.800	29.50	0.12	44.52	253.74	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
348	6.700	29.50	0.12	44.62	253.55	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
349	6.600	29.50	0.12	44.72	253.36	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
350	6.500	29.50	0.12	44.82	253.16	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
351	6.400	29.50	0.12	44.92	252.97	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
352	6.300	29.50	0.12	45.02	252.77	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
353	6.200	29.50	0.12	45.12	252.57	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
354	6.100	29.50	0.12	45.23	252.37	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
355	6.000	29.50	0.12	45.33	252.17	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
356	5.900	29.50	0.12	45.43	251.97	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
357	5.800	29.50	0.11	45.54	251.76	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
358	5.700	29.50	0.11	45.64	251.56	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
359	5.600	29.50	0.11	45.75	251.35	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
360	5.500	29.50	0.11	45.86	251.14	6.00	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
361	5.400	29.50	0.11	45.97	250.93	6.01	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
362	5.300	29.50	0.11	46.08	250.72	6.01	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
363	5.200	29.50	0.11	46.19	250.50	6.01	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
364	5.100	29.50	0.11	46.30	250.29	6.01	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
365	5.000	29.50	0.11	46.41	250.07	6.01	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
366	4.900	29.50	0.11	46.52	249.85	6.01	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
367	4.800	29.50	0.11	46.63	249.63	6.01	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
368	4.700	29.50	0.11	46.75	249.41	6.01	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

369	4.600	29.50	0.11	46.86	249.19	6.01	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
370	4.500	29.50	0.11	46.98	248.96	6.01	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
371	4.400	29.50	0.11	47.09	248.74	6.01	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
372	4.300	29.50	0.11	47.21	248.51	6.01	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
373	4.200	29.50	0.11	47.33	248.28	6.01	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
374	4.100	29.50	0.11	47.45	248.04	6.02	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
375	4.000	29.50	0.11	47.57	247.81	6.02	4.32	0.00	4.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
376	3.900	29.50	0.11	47.69	247.57	6.02	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
377	3.800	29.50	0.11	47.81	247.34	6.02	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
378	3.700	29.50	0.11	47.94	247.10	6.02	4.30	0.00	4.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
379	3.600	29.50	0.11	48.06	246.86	6.02	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
380	3.500	29.50	0.11	48.19	246.61	6.02	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
381	3.400	29.50	0.11	48.31	246.37	6.03	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
382	3.300	29.50	0.11	48.44	246.12	6.03	4.25	0.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
383	3.200	29.50	0.11	48.57	245.87	6.03	4.24	0.00	4.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
384	3.100	29.50	0.11	48.70	245.62	6.03	4.22	0.00	4.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
385	3.000	29.50	0.11	48.83	245.37	6.03	4.21	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
386	2.900	29.50	0.11	48.96	245.12	6.03	4.19	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
387	2.800	29.50	0.11	49.09	244.86	6.03	4.17	0.00	4.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
388	2.700	29.50	0.11	49.22	244.60	6.04	4.15	0.00	4.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
389	2.600	29.50	0.11	49.35	244.35	6.04	4.12	0.00	4.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
390	2.500	29.50	0.11	49.49	244.08	6.04	4.10	0.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
391	2.400	29.50	0.11	49.63	243.82	6.04	4.07	0.00	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
392	2.300	29.50	0.11	49.76	243.55	6.04	4.04	0.00	4.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
393	2.200	29.50	0.11	49.90	243.29	6.04	4.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
394	2.100	29.50	0.11	50.04	243.02	6.04	3.97	0.00	3.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
395	2.000	29.50	0.11	50.18	242.74	6.04	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
396	1.900	29.50	0.10	50.32	242.47	6.04	3.88	0.00	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
397	1.800	29.50	0.10	50.46	242.20	6.04	3.84	0.00	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
398	1.700	29.50	0.10	50.61	241.92	6.04	3.79	0.00	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09
399	1.600	29.50	0.10	50.75	241.64	6.04	3.73	0.00	3.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.11
400	1.500	29.50	0.10	50.90	241.36	6.03	3.67	0.00	3.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.13
401	1.400	29.50	0.10	51.04	241.07	6.03	3.60	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.16
402	1.300	29.50	0.10	51.19	240.78	6.04	3.53	0.00	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.19
403	1.200	29.50	0.10	51.34	240.50	6.04	3.45	0.00	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.23
404	1.100	29.50	0.10	51.49	240.21	6.04	3.37	0.00	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.28
405	1.000	29.50	0.10	51.64	239.91	6.05	3.27	0.00	3.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
406	0.900	29.50	0.10	51.79	239.62	6.06	3.17	0.00	3.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.40
407	0.800	29.50	0.10	51.95	239.32	6.08	3.06	0.00	3.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.48
408	0.700	29.50	0.10	52.10	239.02	6.11	2.94	0.00	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.58
409	0.600	29.50	0.10	52.26	238.72	6.16	2.81	0.00	2.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
410	0.500	29.50	0.10	52.41	238.41	6.22	2.67	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
411	0.400	29.50	0.10	52.57	238.11	6.30	2.51	0.00	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.01
412	0.300	29.50	0.10	52.73	237.80	6.41	2.34	0.00	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.22
413	0.200	29.50	0.10	52.89	237.49	6.57	2.16	0.00	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.46
414	0.100	29.50	0.10	53.05	237.17	6.77	1.96	0.00	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.76
415	0.000	29.50	0.10	53.22	236.86	7.03	1.74	0.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.12

STREAM SUMMARY
Baker Canal East

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
SUMMER Projection Meeting DO Standard of 5 mg/L

TRAVEL TIME	=	2563.35	DAYS		
MAXIMUM EFFLUENT	=	66.67	PERCENT		
FLOW	=	0.00300	TO	0.01200	m^3/s
DISPERSION	=	0.8700	TO	1.8800	m^2/s
VELOCITY	=	0.00009	TO	0.00026	m/s
DEPTH	=	0.94	TO	1.71	m
WIDTH	=	21.94	TO	49.07	m
BOD DECAY	=	0.11	TO	0.15	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.47	TO	1.96	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.46	TO	0.85	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	=	29.50	TO	29.50	deg C
DISSOLVED OXYGEN	=	5.12	TO	7.03	mg/L

FINAL REPORT Bayou Verret
REACH NO. 2 Bayou Verret

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
SUMMER Projection Meeting DO Standard of 5 mg/L

********** 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
32	HDWTR	0.00300	29.50	0.25	64.90	502.40	7.21	3.94	0.00	3.94	0.00	0.00	0.00	0.00	0.00	0.00	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
32	3.20	3.10	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
33	3.10	3.00	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
34	3.00	2.90	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
35	2.90	2.80	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
36	2.80	2.70	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
37	2.70	2.60	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
38	2.60	2.50	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
39	2.50	2.40	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
40	2.40	2.30	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
41	2.30	2.20	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
42	2.20	2.10	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
43	2.10	2.00	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000

44	2.00	1.90	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
45	1.90	1.80	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
46	1.80	1.70	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
47	1.70	1.60	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
48	1.60	1.50	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
49	1.50	1.40	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
50	1.40	1.30	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
51	1.30	1.20	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
52	1.20	1.10	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
53	1.10	1.00	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
54	1.00	0.90	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
55	0.90	0.80	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
56	0.80	0.70	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
57	0.70	0.60	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
58	0.60	0.50	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
59	0.50	0.40	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
60	0.40	0.30	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
61	0.30	0.20	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
62	0.20	0.10	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
63	0.10	0.00	0.00300	0.0	0.00017	6.77	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.000
TOT						216.71			56171.51	78016.00					
AVG					0.00017		0.72	24.38			17.55				
CUM						216.71									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
32	3.100	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
33	3.000	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
34	2.900	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
35	2.800	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
36	2.700	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
37	2.600	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
38	2.500	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
39	2.400	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
40	2.300	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
41	2.200	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
42	2.100	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
43	2.000	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
44	1.900	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
45	1.800	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
46	1.700	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
47	1.600	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
48	1.500	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
49	1.400	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
50	1.300	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
51	1.200	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
52	1.100	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
53	1.000	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
54	0.900	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
55	0.800	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00

56	0.700	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
57	0.600	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
58	0.500	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
59	0.400	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
60	0.300	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
61	0.200	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
62	0.100	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
63	0.000	7.62	1.10	0.14	0.00	0.00	0.00	0.00	0.00	1.96	1.96	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
AVG 20 DEG C RATE			0.93	0.09	0.00	0.00	0.00	0.00	0.00	1.08			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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
32	3.100	29.50	0.19	49.63	409.92	5.17	0.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09
33	3.000	29.50	0.19	49.33	408.10	5.14	0.44	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
34	2.900	29.50	0.18	49.02	406.25	5.13	0.39	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
35	2.800	29.50	0.18	48.71	404.36	5.12	0.34	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
36	2.700	29.50	0.18	48.39	402.43	5.12	0.30	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
37	2.600	29.50	0.17	48.07	400.47	5.11	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
38	2.500	29.50	0.17	47.74	398.46	5.12	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
39	2.400	29.50	0.16	47.40	396.42	5.12	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
40	2.300	29.50	0.16	47.06	394.34	5.12	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
41	2.200	29.50	0.16	46.71	392.22	5.12	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
42	2.100	29.50	0.15	46.35	390.05	5.12	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
43	2.000	29.50	0.15	45.98	387.85	5.13	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
44	1.900	29.50	0.15	45.61	385.59	5.13	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
45	1.800	29.50	0.14	45.23	383.30	5.13	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
46	1.700	29.50	0.14	44.85	380.96	5.13	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
47	1.600	29.50	0.13	44.45	378.57	5.13	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
48	1.500	29.50	0.13	44.05	376.14	5.13	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
49	1.400	29.50	0.13	43.64	373.66	5.14	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
50	1.300	29.50	0.12	43.22	371.13	5.14	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
51	1.200	29.50	0.12	42.80	368.55	5.14	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
52	1.100	29.50	0.12	42.36	365.92	5.14	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
53	1.000	29.50	0.11	41.92	363.24	5.14	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
54	0.900	29.50	0.11	41.47	360.50	5.14	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
55	0.800	29.50	0.11	41.01	357.72	5.14	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
56	0.700	29.50	0.10	40.54	354.87	5.14	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
57	0.600	29.50	0.10	40.06	351.97	5.14	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
58	0.500	29.50	0.09	39.57	349.02	5.15	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
59	0.400	29.50	0.09	39.07	346.00	5.15	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
60	0.300	29.50	0.09	38.57	342.93	5.16	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
61	0.200	29.50	0.08	38.05	339.80	5.17	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
62	0.100	29.50	0.08	37.52	336.60	5.18	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
63	0.000	29.50	0.08	36.98	333.34	5.20	0.23	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

```
TRAVEL TIME       =         216.71 DAYS

MAXIMUM EFFLUENT  =           0.00 PERCENT

FLOW              =   0.00300 TO    0.00300   m³/s
DISPERSION        =   0.8700  TO    0.8700    m²/s
VELOCITY          =   0.00017 TO    0.00017   m/s
DEPTH             =   0.72    TO    0.72      m
WIDTH             =  24.38    TO   24.38      m

BOD DECAY         =    0.14   TO    0.14      per day
NH3 DECAY         =    0.00   TO    0.00      per day
SOD               =    1.96   TO    1.96      g/m²/d
NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
REAERATION        =    1.10   TO    1.10      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       =   29.50   TO   29.50      deg C
DISSOLVED OXYGEN  =    5.11   TO    5.20      mg/L
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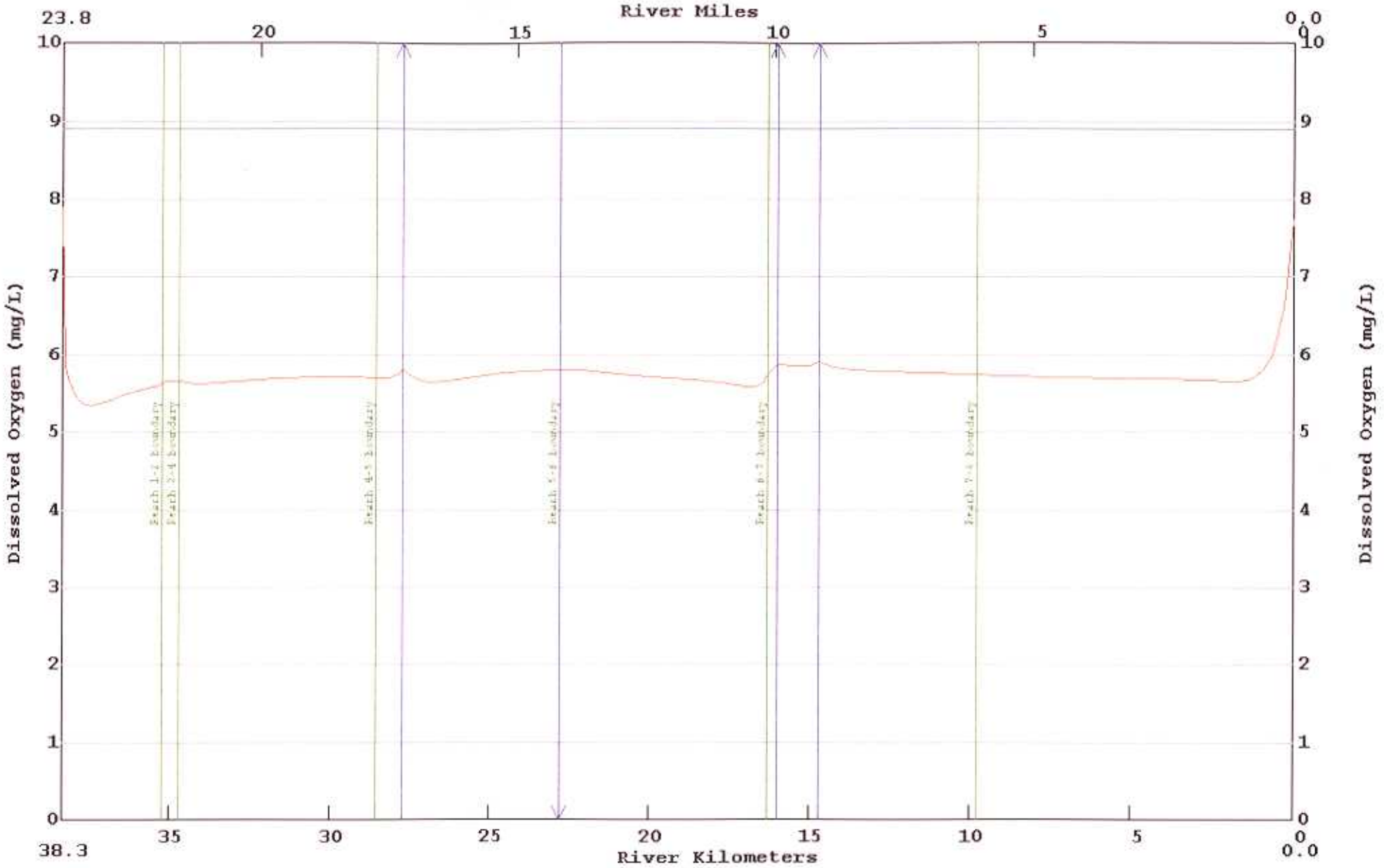
LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
SUMMER Projection Meeting DO Standard of 5 mg/L

INPUT/OUTPUT LOADING SUMMARY

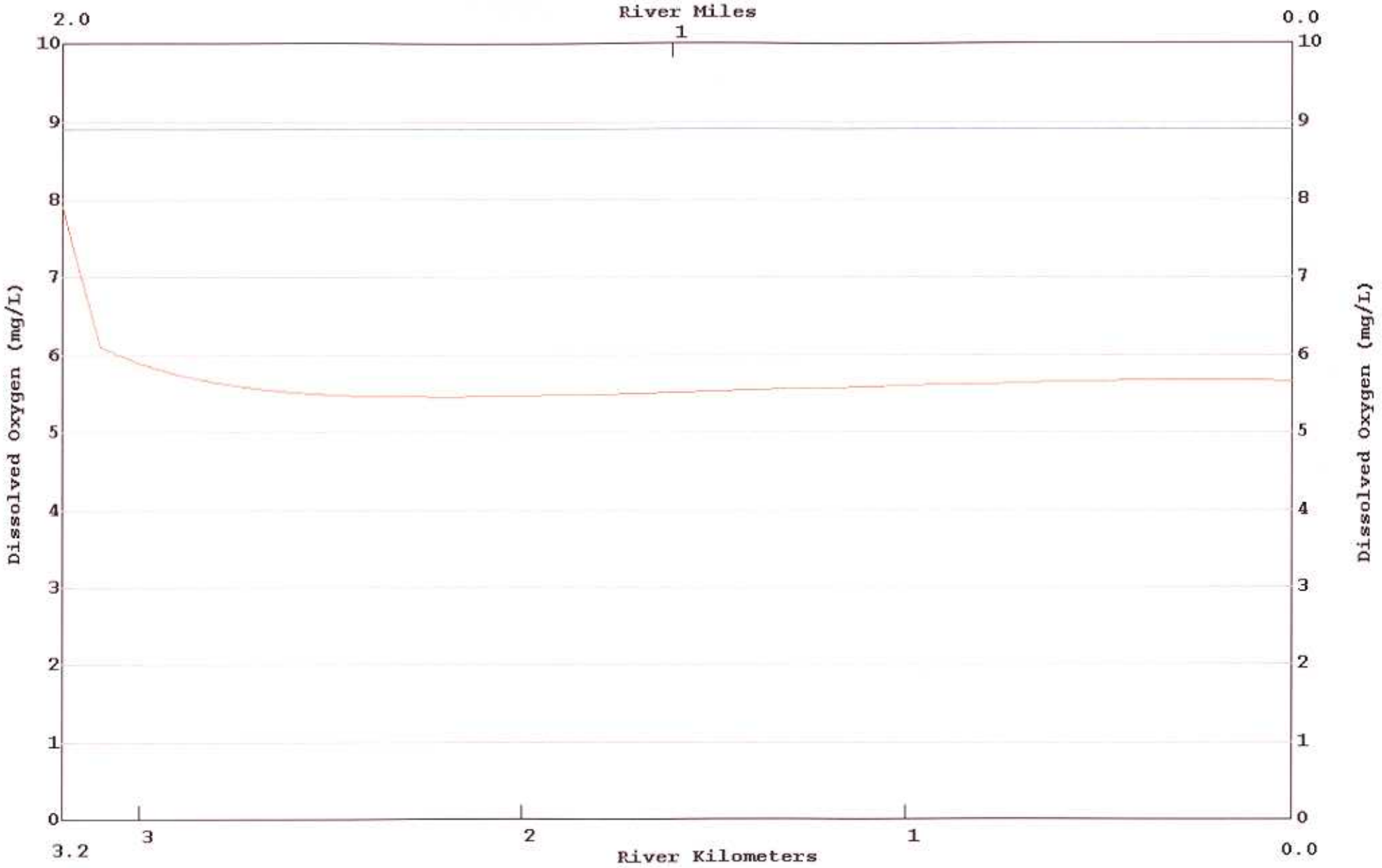
	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER INFLOW	0.006	3.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.8
INCREMENTAL INFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	0.009	5.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	1.1
WITHDRAWLS	-0.003	-1.4	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OUTFLOW THRU LOWER BNDRY	-0.012	-7.3	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	-2.2
DISPERSION THRU LOWER BNDRY		47.8	-32.5	0.0	0.0	0.0	0.0	0.0	0.0	58.4
NON-POINT INPUT		0.0	637.0	0.0	0.0					0.0
NATURAL REAERATION		2254.0								
DAM REAERATION		0.0								
BACKGROUND SOD		-1638.0								
BOD#1 DECAY		-607.0	-607.0							
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		0.0				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		-58.1								-58.1
NCM SETTLING		0.0								0.0
TOTAL INPUTS	0.015	2311.1	641.4	0.0	0.0	0.0	0.0	0.0	0.0	60.2
TOTAL OUTPUTS	-0.015	-2311.6	-641.4	0.0	0.0	0.0	0.0	0.0	0.0	-60.2
NET CONVERGENCE ERROR	0.000	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

.....EXECUTION COMPLETED

LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\proj\winter\chev_wint.txt
WINTER Projection Meeting DO standard of 5 mg/L min= 5.35 max= 7.90
Main Stem



LA-QUAL Version 6.02 File R:\projects\3110-051\la-qual\chevreuil\revisions\proj\winter\chev_wint.txt
WINTER Projection Meeting DO standard of 5 mg/L min= 5.46 max= 7.91
LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101



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LA-QUAL Version 6.02
Louisiana Department of Environmental Quality

Input file is R:\projects\3110-051\la-qual\chevreuil\revisions\proj\winter\chev_wint.txt
Output produced at 12:31 on 05/04/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
TITLE02         WINTER Projection Meeting DO standard of 5 mg/L
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   DISS
MODOPT06  YES   BIOC
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
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	BK	Baker Canal East	38.30	TO	35.20	0.1000	3.10	31	1	31
REACH ID	2	BV	Bayou Verret	3.20	TO	0.00	0.1000	3.20	32	32	63
REACH ID	3	BC	Bayou Citamon	35.20	TO	34.70	0.1000	0.50	5	64	68
REACH ID	4	BC	Bayou Citamon	34.70	TO	28.50	0.1000	6.20	62	69	130
REACH ID	5	BC	Bayou Citamon	28.50	TO	22.80	0.1000	5.70	57	131	187
REACH ID	6	BH	Bayou Chevreuil	22.80	TO	16.30	0.1000	6.50	65	188	252
REACH ID	7	BH	Bayou Chevreuil	16.30	TO	9.80	0.1000	6.50	65	253	317
REACH ID	8	BH	Bayou Chevreuil	9.80	TO	0.00	0.1000	9.80	98	318	415

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	BK	0.000	0.000	27.130	0.000	0.000	0.940	0.00000	0.000
HYDR-1	2	BV	0.000	0.000	24.380	0.000	0.000	0.720	0.00000	0.000
HYDR-1	3	BC	0.000	0.000	27.130	0.000	0.000	0.940	0.00000	0.000
HYDR-1	4	BC	0.000	0.000	21.940	0.000	0.000	1.040	0.00000	0.000
HYDR-1	5	BC	0.000	0.000	30.780	0.000	0.000	1.290	0.00000	0.000
HYDR-1	6	BH	0.000	0.000	25.600	0.000	0.000	1.170	0.00000	0.000
HYDR-1	7	BH	0.000	0.000	44.500	0.000	0.000	1.570	0.00000	0.000
HYDR-1	8	BH	0.000	0.000	49.070	0.000	0.000	1.710	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	BK	0.00	0.870	0.000	0.000	0.000
HYDR	2	BV	0.00	0.870	0.000	0.000	0.000
HYDR	3	BC	0.00	0.870	0.000	0.000	0.000
HYDR	4	BC	0.00	0.870	0.000	0.000	0.000
HYDR	5	BC	0.00	1.120	0.000	0.000	0.000
HYDR	6	BH	0.00	1.380	0.000	0.000	0.000
HYDR	7	BH	0.00	1.630	0.000	0.000	0.000
HYDR	8	BH	0.00	1.880	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	BK	21.00	0.08	1.50	0.00	0.00	0.00	0.00	0.00
INITIAL	2	BV	21.00	0.19	2.14	0.00	0.00	0.00	0.00	0.00
INITIAL	3	BC	21.00	0.08	1.50	0.00	0.00	0.00	0.00	0.00
INITIAL	4	BC	21.00	0.11	2.20	0.00	0.00	0.00	0.00	0.00
INITIAL	5	BC	21.00	0.10	2.55	0.00	0.00	0.00	0.00	0.00
INITIAL	6	BH	21.00	0.12	2.83	0.00	0.00	0.00	0.00	0.00
INITIAL	7	BH	21.00	0.12	2.14	0.00	0.00	0.00	0.00	0.00
INITIAL	8	BH	21.00	0.12	2.70	0.00	0.00	0.00	0.00	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	BK	15 LOUISIANA	0.000	0.000	0.000	2.070	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	BV	15 LOUISIANA	0.000	0.000	0.000	2.010	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	BC	15 LOUISIANA	0.000	0.000	0.000	2.030	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	BC	15 LOUISIANA	0.000	0.000	0.000	2.110	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	BC	15 LOUISIANA	0.000	0.000	0.000	2.010	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	BH	15 LOUISIANA	0.000	0.000	0.000	1.950	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	BH	15 LOUISIANA	0.000	0.000	0.000	1.410	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	BH	15 LOUISIANA	0.000	0.000	0.000	1.330	0.070	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    ALGAE:     ALGAE    ALG CONV     ALGAE     ALGAE     MACRO     MACRO
                                DEPTH     CHL A      SETT     TO SOD       GROW      RESP      GROW      RESP

ENDATA14

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

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

COEF-4           1   BK       0.000     0.110     0.000     0.000
COEF-4           2   BV       0.000     0.110     0.000     0.000
COEF-4           3   BC       0.000     0.110     0.000     0.000
COEF-4           4   BC       0.000     0.190     0.000     0.000
COEF-4           5   BC       0.000     0.190     0.000     0.000
COEF-4           6   BH       0.000     0.190     0.000     0.000
COEF-4           7   BH       0.000     0.280     0.000     0.000
COEF-4           8   BH       0.000     0.280     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   BK        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         2   BV        0.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         3   BC        1.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         4   BC        2.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         5   BC        3.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         6   BH       37.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         7   BH      211.00      0.00      0.00      0.00      0.00      0.00
NONPOINT         8   BH      398.00      0.00      0.00      0.00      0.00      0.00
ENDATA19

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

CARD TYPE	ELEMENT	NAME	UNIT	FLOW m³/s	FLOW cfs	TEMP deg C	SALIN ppt	CM-I mg/L	CM-II umhos
HDWTR-1	1	Baker Canal East	0	0.02800	0.989	21.00	0.07	9.300	172.000
HDWTR-1	32	Bayou Verret	0	0.02800	0.989	21.00	0.25	64.900	502.400

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-2	1	Baker Canal East	7.90	5.02	0.00	0.00	0.00	0.00
HDWTR-2	32	Bayou Verret	7.91	7.81	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-3	1	Baker Canal East	0.00	0.00	0.00	4.21
HDWTR-3	32	Bayou Verret	0.00	0.00	0.00	1.78

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME
JUNCTION	64	31	35.20	Bayou Verret

ENDATA23

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

CARD TYPE	ELEMENT	RKILO	NAME	FLOW m³/s	FLOW cfs	FLOW MGD	TEMP deg C	SALIN ppt	CM-I mg/L	CM-II umhos
WSTLD-1	138	27.80	Middle Saint James	0.02800	0.98870	0.639	25.64	0.11	29.100	230.600
WSTLD-1	187	22.90	Grand Bayou	-0.02800	-0.98870	-0.639	0.00	0.00	0.000	0.000
WSTLD-1	255	16.10	Upper Saint James	0.02800	0.98870	0.639	26.07	0.13	31.700	272.600
WSTLD-1	268	14.80	Dredge Boat Canal	0.02800	0.98870	0.639	26.25	0.11	27.000	230.900

ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE	ELEMENT	NAME	DO mg/L	BOD mg/L	% BOD RMVL	ORG-N mg/L	NH3-N mg/L	% NITRIF	NO3-N mg/L	BOD#2 mg/L
WSTLD-2	138	Middle Saint James	7.93	6.95	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	187	Grand Bayou	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	255	Upper Saint James	7.89	6.27	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	268	Dredge Boat Canal	7.91	6.45	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 mg/L	CHL A mg/L	COLI mg/L	NCM mg/L
WSTLD-3	138	Middle Saint James	0.00	0.00	0.00	2.13
WSTLD-3	187	Grand Bayou	0.00	0.00	0.00	0.00
WSTLD-3	255	Upper Saint James	0.00	0.00	0.00	2.95
WSTLD-3	268	Dredge Boat Canal	0.00	0.00	0.00	2.69

ENDATA26

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

CARD TYPE	CONSTITUENT	CONCENTRATION		
LOWER BC	TEMPERATURE	=	21.000	deg C
LOWER BC	SALINITY	=	0.100	ppt
LOWER BC	CONSERVATIVE MATERIAL I (Cl)	=	53.300	mg/L
LOWER BC	CONSERVATIVE MATERIAL II (Cond)	=	236.700	umhos
LOWER BC	DISSOLVED OXYGEN	=	8.020	mg/L
LOWER BC	BIOCHEMICAL OXYGEN DEMAND	=	7.100	mg/L
LOWER BC	CHLOROPHYLL A	=	0.000	µg/L
LOWER BC	NONCONSERVATIVE MATERIAL (NBOD)	=	2.140	mg/L

ENDATA27

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

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

ENDATA28

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

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

ENDATA29

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

NUMBER OF PLOTS = 3
NUMBER OF REACHES IN PLOT 1 = 7
PLOT RCH 1 3 4 5 6 7 8
NUMBER OF REACHES IN PLOT 2 = 1
PLOT RCH 2

```
NUMBER OF REACHES IN PLOT 3 =   7
PLOT RCH  1  3  4  5  6  7  8
ENDATA30

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


OVERLAY 1 CHEV_PROJ.OVL                    Main Stem
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  24 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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CONDENSED CAPSULE SUMMARY FOR Baker Canal East

DIST km	FLOW m^3/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 $g/m^2/d$
HDWTR	0.02800	21.00	0.07	7.90	5.02	0.00	0.00	0.00	0.00							
38.20	0.02800	21.00	0.08	5.86	3.15	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
38.10	0.02800	21.00	0.08	5.69	2.96	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
38.00	0.02800	21.00	0.08	5.57	2.78	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
37.90	0.02800	21.00	0.08	5.48	2.60	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
37.80	0.02800	21.00	0.08	5.42	2.44	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
37.70	0.02800	21.00	0.08	5.38	2.29	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
37.60	0.02800	21.00	0.08	5.36	2.15	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
37.50	0.02800	21.00	0.08	5.35	2.02	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
37.40	0.02800	21.00	0.08	5.35	1.89	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
37.30	0.02800	21.00	0.08	5.35	1.78	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
37.20	0.02800	21.00	0.08	5.36	1.67	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
37.10	0.02800	21.00	0.08	5.37	1.57	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
37.00	0.02800	21.00	0.08	5.39	1.47	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
36.90	0.02800	21.00	0.08	5.40	1.39	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
36.80	0.02800	21.00	0.08	5.42	1.30	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
36.70	0.02800	21.00	0.08	5.43	1.23	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
36.60	0.02800	21.00	0.08	5.45	1.16	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
36.50	0.02800	21.00	0.08	5.46	1.10	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
36.40	0.02800	21.00	0.08	5.48	1.04	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
36.30	0.02800	21.00	0.08	5.49	0.99	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
36.20	0.02800	21.00	0.08	5.51	0.94	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
36.10	0.02800	21.00	0.08	5.52	0.90	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
36.00	0.02800	21.00	0.08	5.53	0.86	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
35.90	0.02800	21.00	0.08	5.54	0.84	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
35.80	0.02800	21.00	0.08	5.55	0.81	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
35.70	0.02800	21.00	0.08	5.56	0.80	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
35.60	0.02800	21.00	0.08	5.57	0.79	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20

35.50	0.02800	21.00	0.08	5.58	0.80	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
35.40	0.02800	21.00	0.08	5.60	0.81	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
35.30	0.02800	21.00	0.08	5.61	0.84	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
35.20	0.02800	21.00	0.08	5.63	0.88	0.00	0.00	0.00	0.00	0.74	0.09	0.00	0.00	0.00	0.00	2.20
35.10	0.05600	21.00	0.08	5.66	0.93	0.00	0.00	0.00	0.00	0.75	0.09	0.00	0.00	0.00	0.00	2.16
35.00	0.05600	21.00	0.09	5.66	0.92	0.00	0.00	0.00	0.00	0.75	0.09	0.00	0.00	0.00	0.00	2.16
34.90	0.05600	21.00	0.10	5.67	0.90	0.00	0.00	0.00	0.00	0.75	0.09	0.00	0.00	0.00	0.00	2.16
34.80	0.05600	21.00	0.10	5.67	0.89	0.00	0.00	0.00	0.00	0.75	0.09	0.00	0.00	0.00	0.00	2.16
34.70	0.05600	21.00	0.11	5.66	0.86	0.00	0.00	0.00	0.00	0.75	0.09	0.00	0.00	0.00	0.00	2.16
34.60	0.05600	21.00	0.11	5.65	0.83	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
34.50	0.05600	21.00	0.11	5.64	0.81	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
34.40	0.05600	21.00	0.11	5.64	0.78	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
34.30	0.05600	21.00	0.11	5.63	0.75	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
34.20	0.05600	21.00	0.11	5.63	0.73	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
34.10	0.05600	21.00	0.11	5.63	0.70	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
34.00	0.05600	21.00	0.11	5.63	0.68	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
33.90	0.05600	21.00	0.11	5.63	0.66	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
33.80	0.05600	21.00	0.11	5.63	0.63	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
33.70	0.05600	21.00	0.11	5.63	0.61	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
33.60	0.05600	21.00	0.11	5.64	0.59	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
33.50	0.05600	21.00	0.11	5.64	0.57	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
33.40	0.05600	21.00	0.11	5.64	0.56	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
33.30	0.05600	21.00	0.11	5.65	0.54	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
33.20	0.05600	21.00	0.11	5.65	0.52	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
33.10	0.05600	21.00	0.11	5.65	0.51	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
33.00	0.05600	21.00	0.11	5.66	0.49	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
32.90	0.05600	21.00	0.11	5.66	0.48	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
32.80	0.05600	21.00	0.11	5.66	0.46	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
32.70	0.05600	21.00	0.11	5.66	0.45	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
32.60	0.05600	21.00	0.11	5.67	0.44	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
32.50	0.05600	21.00	0.11	5.67	0.42	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
32.40	0.05600	21.00	0.11	5.67	0.41	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
32.30	0.05600	21.00	0.11	5.68	0.40	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
32.20	0.05600	21.00	0.11	5.68	0.39	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
32.10	0.05600	21.00	0.11	5.68	0.38	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
32.00	0.05600	21.00	0.11	5.68	0.37	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
31.90	0.05600	21.00	0.11	5.69	0.36	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
31.80	0.05600	21.00	0.11	5.69	0.35	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
31.70	0.05600	21.00	0.11	5.69	0.34	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
31.60	0.05600	21.00	0.11	5.69	0.33	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
31.50	0.05600	21.00	0.10	5.70	0.32	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
31.40	0.05600	21.00	0.10	5.70	0.32	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
31.30	0.05600	21.00	0.10	5.70	0.31	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
31.20	0.05600	21.00	0.10	5.70	0.30	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
31.10	0.05600	21.00	0.10	5.70	0.30	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
31.00	0.05600	21.00	0.10	5.70	0.29	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
30.90	0.05600	21.00	0.10	5.71	0.28	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
30.80	0.05600	21.00	0.10	5.71	0.28	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
30.70	0.05600	21.00	0.10	5.71	0.27	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
30.60	0.05600	21.00	0.10	5.71	0.27	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
30.50	0.05600	21.00	0.10	5.71	0.26	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
30.40	0.05600	21.00	0.10	5.71	0.26	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
30.30	0.05600	21.00	0.10	5.71	0.25	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
30.20	0.05600	21.00	0.10	5.71	0.25	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
30.10	0.05600	21.00	0.10	5.71	0.24	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
30.00	0.05600	21.00	0.10	5.72	0.24	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25

29.90	0.05600	21.00	0.10	5.72	0.24	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
29.80	0.05600	21.00	0.10	5.72	0.24	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
29.70	0.05600	21.00	0.10	5.72	0.24	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
29.60	0.05600	21.00	0.10	5.72	0.24	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
29.50	0.05600	21.00	0.10	5.72	0.24	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
29.40	0.05600	21.00	0.10	5.72	0.24	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
29.30	0.05600	21.00	0.10	5.71	0.25	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
29.20	0.05600	21.00	0.10	5.71	0.26	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
29.10	0.05600	21.00	0.10	5.71	0.27	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
29.00	0.05600	21.00	0.10	5.71	0.29	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
28.90	0.05600	21.00	0.10	5.70	0.32	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
28.80	0.05600	21.00	0.10	5.70	0.36	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
28.70	0.05600	21.00	0.10	5.70	0.41	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
28.60	0.05600	21.00	0.10	5.69	0.48	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
28.50	0.05600	21.00	0.10	5.69	0.58	0.00	0.00	0.00	0.00	0.69	0.10	0.00	0.00	0.00	0.00	2.25
28.40	0.05600	21.00	0.10	5.69	0.66	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	2.14
28.30	0.05600	21.00	0.10	5.69	0.73	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	2.14
28.20	0.05600	21.00	0.10	5.69	0.82	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	2.14
28.10	0.05600	21.00	0.10	5.70	0.92	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	2.14
28.00	0.05600	21.00	0.10	5.71	1.05	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	2.14
27.90	0.05600	21.00	0.10	5.73	1.21	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	2.14
27.80	0.05600	21.00	0.10	5.77	1.40	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	2.14
27.70	0.08400	21.00	0.10	5.82	1.62	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
27.60	0.08400	21.00	0.10	5.78	1.56	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
27.50	0.08400	21.00	0.10	5.74	1.49	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
27.40	0.08400	21.00	0.10	5.71	1.43	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
27.30	0.08400	21.00	0.10	5.69	1.37	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
27.20	0.08400	21.00	0.10	5.68	1.32	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
27.10	0.08400	21.00	0.10	5.66	1.27	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
27.00	0.08400	21.00	0.11	5.66	1.22	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
26.90	0.08400	21.00	0.11	5.65	1.17	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
26.80	0.08400	21.00	0.11	5.65	1.12	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
26.70	0.08400	21.00	0.11	5.65	1.08	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
26.60	0.08400	21.00	0.11	5.65	1.03	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
26.50	0.08400	21.00	0.11	5.65	0.99	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
26.40	0.08400	21.00	0.11	5.66	0.96	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
26.30	0.08400	21.00	0.11	5.66	0.92	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
26.20	0.08400	21.00	0.11	5.67	0.88	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
26.10	0.08400	21.00	0.11	5.67	0.85	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
26.00	0.08400	21.00	0.11	5.68	0.82	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
25.90	0.08400	21.00	0.11	5.68	0.79	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
25.80	0.08400	21.00	0.11	5.69	0.76	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
25.70	0.08400	21.00	0.11	5.70	0.73	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
25.60	0.08400	21.00	0.11	5.70	0.70	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
25.50	0.08400	21.00	0.11	5.71	0.68	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
25.40	0.08400	21.00	0.11	5.71	0.65	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
25.30	0.08400	21.00	0.11	5.72	0.63	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
25.20	0.08400	21.00	0.11	5.73	0.61	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
25.10	0.08400	21.00	0.11	5.73	0.59	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
25.00	0.08400	21.00	0.11	5.74	0.57	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
24.90	0.08400	21.00	0.11	5.74	0.55	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
24.80	0.08400	21.00	0.11	5.75	0.53	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
24.70	0.08400	21.00	0.11	5.75	0.51	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
24.60	0.08400	21.00	0.11	5.76	0.50	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
24.50	0.08400	21.00	0.11	5.76	0.48	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
24.40	0.08400	21.00	0.11	5.77	0.47	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14

24.30	0.08400	21.00	0.11	5.77	0.46	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
24.20	0.08400	21.00	0.12	5.77	0.44	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
24.10	0.08400	21.00	0.12	5.78	0.43	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
24.00	0.08400	21.00	0.12	5.78	0.42	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
23.90	0.08400	21.00	0.12	5.78	0.42	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
23.80	0.08400	21.00	0.12	5.79	0.41	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
23.70	0.08400	21.00	0.12	5.79	0.41	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
23.60	0.08400	21.00	0.12	5.79	0.40	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
23.50	0.08400	21.00	0.12	5.79	0.40	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
23.40	0.08400	21.00	0.12	5.79	0.41	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
23.30	0.08400	21.00	0.12	5.79	0.42	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
23.20	0.08400	21.00	0.12	5.79	0.43	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
23.10	0.08400	21.00	0.12	5.79	0.44	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
23.00	0.08400	21.00	0.12	5.79	0.47	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
22.90	0.08400	21.00	0.12	5.79	0.50	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	2.14
22.80	0.05600	21.00	0.12	5.80	0.54	0.00	0.00	0.00	0.00	0.54	0.10	0.00	0.00	0.00	0.00	2.14
22.70	0.05600	21.00	0.12	5.80	0.60	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
22.60	0.05600	21.00	0.12	5.80	0.66	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
22.50	0.05600	21.00	0.12	5.80	0.71	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
22.40	0.05600	21.00	0.12	5.80	0.76	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
22.30	0.05600	21.00	0.12	5.80	0.81	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
22.20	0.05600	21.00	0.12	5.80	0.86	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
22.10	0.05600	21.00	0.12	5.80	0.90	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
22.00	0.05600	21.00	0.12	5.80	0.94	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
21.90	0.05600	21.00	0.12	5.79	0.98	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
21.80	0.05600	21.00	0.12	5.79	1.02	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
21.70	0.05600	21.00	0.12	5.78	1.06	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
21.60	0.05600	21.00	0.12	5.78	1.09	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
21.50	0.05600	21.00	0.12	5.77	1.13	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
21.40	0.05600	21.00	0.12	5.77	1.16	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
21.30	0.05600	21.00	0.12	5.77	1.19	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
21.20	0.05600	21.00	0.12	5.76	1.22	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
21.10	0.05600	21.00	0.12	5.76	1.24	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
21.00	0.05600	21.00	0.12	5.75	1.27	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
20.90	0.05600	21.00	0.12	5.75	1.30	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
20.80	0.05600	21.00	0.12	5.74	1.32	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
20.70	0.05600	21.00	0.12	5.74	1.34	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
20.60	0.05600	21.00	0.12	5.74	1.37	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
20.50	0.05600	21.00	0.12	5.73	1.39	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
20.40	0.05600	21.00	0.12	5.73	1.41	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
20.30	0.05600	21.00	0.12	5.72	1.43	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
20.20	0.05600	21.00	0.12	5.72	1.44	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
20.10	0.05600	21.00	0.12	5.72	1.46	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
20.00	0.05600	21.00	0.12	5.71	1.48	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
19.90	0.05600	21.00	0.12	5.71	1.50	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
19.80	0.05600	21.00	0.12	5.71	1.51	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
19.70	0.05600	21.00	0.12	5.70	1.53	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
19.60	0.05600	21.00	0.12	5.70	1.54	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
19.50	0.05600	21.00	0.12	5.70	1.55	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
19.40	0.05600	21.00	0.12	5.70	1.57	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
19.30	0.05600	21.00	0.12	5.69	1.58	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
19.20	0.05600	21.00	0.12	5.69	1.60	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
19.10	0.05600	21.00	0.12	5.69	1.61	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
19.00	0.05600	21.00	0.12	5.68	1.62	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
18.90	0.05600	21.00	0.12	5.68	1.64	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
18.80	0.05600	21.00	0.12	5.68	1.65	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08

18.70	0.05600	21.00	0.12	5.68	1.66	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
18.60	0.05600	21.00	0.12	5.67	1.68	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
18.50	0.05600	21.00	0.12	5.67	1.69	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
18.40	0.05600	21.00	0.12	5.67	1.71	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
18.30	0.05600	21.00	0.12	5.66	1.73	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
18.20	0.05600	21.00	0.12	5.66	1.75	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
18.10	0.05600	21.00	0.12	5.66	1.77	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
18.00	0.05600	21.00	0.12	5.65	1.79	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
17.90	0.05600	21.00	0.12	5.65	1.82	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
17.80	0.05600	21.00	0.12	5.64	1.85	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
17.70	0.05600	21.00	0.12	5.63	1.88	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
17.60	0.05600	21.00	0.12	5.63	1.92	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
17.50	0.05600	21.00	0.12	5.62	1.97	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
17.40	0.05600	21.00	0.12	5.62	2.02	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
17.30	0.05600	21.00	0.12	5.61	2.09	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
17.20	0.05600	21.00	0.12	5.60	2.16	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
17.10	0.05600	21.00	0.12	5.59	2.25	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
17.00	0.05600	21.00	0.12	5.59	2.35	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
16.90	0.05600	21.00	0.12	5.59	2.47	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
16.80	0.05600	21.00	0.12	5.59	2.62	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
16.70	0.05600	21.00	0.12	5.59	2.79	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
16.60	0.05600	21.00	0.12	5.60	2.99	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
16.50	0.05600	21.00	0.12	5.63	3.23	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
16.40	0.05600	21.00	0.12	5.67	3.51	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
16.30	0.05600	21.00	0.12	5.74	3.85	0.00	0.00	0.00	0.00	0.60	0.10	0.00	0.00	0.00	0.00	2.08
16.20	0.05600	21.00	0.12	5.80	4.07	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
16.10	0.05600	21.00	0.12	5.84	4.21	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
16.00	0.08400	21.00	0.12	5.88	4.35	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
15.90	0.08400	21.00	0.12	5.87	4.44	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
15.80	0.08400	21.00	0.12	5.87	4.53	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
15.70	0.08400	21.00	0.12	5.86	4.61	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
15.60	0.08400	21.00	0.12	5.86	4.69	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
15.50	0.08400	21.00	0.12	5.85	4.77	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
15.40	0.08400	21.00	0.12	5.85	4.85	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
15.30	0.08400	21.00	0.12	5.85	4.92	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
15.20	0.08400	21.00	0.12	5.85	4.99	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
15.10	0.08400	21.00	0.12	5.86	5.06	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
15.00	0.08400	21.00	0.12	5.86	5.13	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
14.90	0.08400	21.00	0.12	5.87	5.20	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
14.80	0.08400	21.00	0.12	5.89	5.26	0.00	0.00	0.00	0.00	0.44	0.07	0.00	0.00	0.00	0.00	1.50
14.70	0.11200	21.00	0.12	5.91	5.33	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
14.60	0.11200	21.00	0.12	5.89	5.37	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
14.50	0.11200	21.00	0.12	5.87	5.40	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
14.40	0.11200	21.00	0.12	5.86	5.44	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
14.30	0.11200	21.00	0.12	5.85	5.47	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
14.20	0.11200	21.00	0.12	5.84	5.50	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
14.10	0.11200	21.00	0.12	5.83	5.53	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
14.00	0.11200	21.00	0.12	5.82	5.56	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
13.90	0.11200	21.00	0.12	5.81	5.59	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
13.80	0.11200	21.00	0.12	5.81	5.62	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
13.70	0.11200	21.00	0.12	5.81	5.65	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
13.60	0.11200	21.00	0.12	5.80	5.67	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
13.50	0.11200	21.00	0.12	5.80	5.70	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
13.40	0.11200	21.00	0.12	5.80	5.72	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
13.30	0.11200	21.00	0.12	5.79	5.74	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
13.20	0.11200	21.00	0.12	5.79	5.77	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50

13.10	0.11200	21.00	0.12	5.79	5.79	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
13.00	0.11200	21.00	0.12	5.79	5.81	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
12.90	0.11200	21.00	0.12	5.79	5.83	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
12.80	0.11200	21.00	0.12	5.79	5.85	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
12.70	0.11200	21.00	0.12	5.78	5.87	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
12.60	0.11200	21.00	0.12	5.78	5.88	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
12.50	0.11200	21.00	0.12	5.78	5.90	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
12.40	0.11200	21.00	0.12	5.78	5.92	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
12.30	0.11200	21.00	0.12	5.78	5.93	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
12.20	0.11200	21.00	0.12	5.78	5.95	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
12.10	0.11200	21.00	0.12	5.78	5.96	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
12.00	0.11200	21.00	0.12	5.78	5.98	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
11.90	0.11200	21.00	0.12	5.77	5.99	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
11.80	0.11200	21.00	0.12	5.77	6.01	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
11.70	0.11200	21.00	0.12	5.77	6.02	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
11.60	0.11200	21.00	0.12	5.77	6.03	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
11.50	0.11200	21.00	0.12	5.77	6.05	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
11.40	0.11200	21.00	0.12	5.77	6.06	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
11.30	0.11200	21.00	0.12	5.77	6.07	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
11.20	0.11200	21.00	0.12	5.76	6.08	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
11.10	0.11200	21.00	0.12	5.76	6.10	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
11.00	0.11200	21.00	0.12	5.76	6.11	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
10.90	0.11200	21.00	0.12	5.76	6.12	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
10.80	0.11200	21.00	0.12	5.76	6.13	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
10.70	0.11200	21.00	0.12	5.76	6.14	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
10.60	0.11200	21.00	0.12	5.76	6.15	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
10.50	0.11200	21.00	0.12	5.75	6.17	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
10.40	0.11200	21.00	0.12	5.75	6.18	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
10.30	0.11200	21.00	0.12	5.75	6.19	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
10.20	0.11200	21.00	0.12	5.75	6.21	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
10.10	0.11200	21.00	0.12	5.75	6.22	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
10.00	0.11200	21.00	0.12	5.75	6.23	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
9.90	0.11200	21.00	0.12	5.74	6.25	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
9.80	0.11200	21.00	0.12	5.74	6.27	0.00	0.00	0.00	0.00	0.45	0.07	0.00	0.00	0.00	0.00	1.50
9.70	0.11200	21.00	0.12	5.74	6.28	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
9.60	0.11200	21.00	0.12	5.74	6.29	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
9.50	0.11200	21.00	0.12	5.74	6.31	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
9.40	0.11200	21.00	0.12	5.74	6.32	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
9.30	0.11200	21.00	0.12	5.74	6.33	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
9.20	0.11200	21.00	0.12	5.74	6.34	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
9.10	0.11200	21.00	0.12	5.73	6.35	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
9.00	0.11200	21.00	0.12	5.73	6.36	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
8.90	0.11200	21.00	0.12	5.73	6.37	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
8.80	0.11200	21.00	0.12	5.73	6.38	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
8.70	0.11200	21.00	0.12	5.73	6.39	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
8.60	0.11200	21.00	0.12	5.73	6.40	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
8.50	0.11200	21.00	0.12	5.73	6.40	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
8.40	0.11200	21.00	0.12	5.73	6.41	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
8.30	0.11200	21.00	0.12	5.72	6.42	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
8.20	0.11200	21.00	0.12	5.72	6.43	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
8.10	0.11200	21.00	0.12	5.72	6.43	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
8.00	0.11200	21.00	0.12	5.72	6.44	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
7.90	0.11200	21.00	0.12	5.72	6.45	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
7.80	0.11200	21.00	0.12	5.72	6.45	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
7.70	0.11200	21.00	0.12	5.72	6.46	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
7.60	0.11200	21.00	0.12	5.72	6.47	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42

7.50	0.11200	21.00	0.12	5.72	6.47	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
7.40	0.11200	21.00	0.12	5.71	6.48	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
7.30	0.11200	21.00	0.12	5.71	6.48	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
7.20	0.11200	21.00	0.12	5.71	6.49	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
7.10	0.11200	21.00	0.12	5.71	6.49	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
7.00	0.11200	21.00	0.12	5.71	6.50	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
6.90	0.11200	21.00	0.12	5.71	6.50	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
6.80	0.11200	21.00	0.12	5.71	6.50	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
6.70	0.11200	21.00	0.12	5.71	6.51	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
6.60	0.11200	21.00	0.12	5.71	6.51	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
6.50	0.11200	21.00	0.12	5.71	6.52	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
6.40	0.11200	21.00	0.12	5.71	6.52	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
6.30	0.11200	21.00	0.12	5.70	6.52	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
6.20	0.11200	21.00	0.12	5.70	6.53	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
6.10	0.11200	21.00	0.12	5.70	6.53	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
6.00	0.11200	21.00	0.12	5.70	6.53	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
5.90	0.11200	21.00	0.12	5.70	6.53	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
5.80	0.11200	21.00	0.11	5.70	6.54	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
5.70	0.11200	21.00	0.11	5.70	6.54	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
5.60	0.11200	21.00	0.11	5.70	6.54	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
5.50	0.11200	21.00	0.11	5.70	6.55	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
5.40	0.11200	21.00	0.11	5.70	6.55	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
5.30	0.11200	21.00	0.11	5.70	6.55	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
5.20	0.11200	21.00	0.11	5.70	6.55	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
5.10	0.11200	21.00	0.11	5.70	6.55	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
5.00	0.11200	21.00	0.11	5.70	6.56	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
4.90	0.11200	21.00	0.11	5.70	6.56	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
4.80	0.11200	21.00	0.11	5.70	6.56	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
4.70	0.11200	21.00	0.11	5.70	6.56	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
4.60	0.11200	21.00	0.11	5.69	6.57	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
4.50	0.11200	21.00	0.11	5.69	6.57	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
4.40	0.11200	21.00	0.11	5.69	6.57	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
4.30	0.11200	21.00	0.11	5.69	6.57	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
4.20	0.11200	21.00	0.11	5.69	6.57	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
4.10	0.11200	21.00	0.11	5.69	6.58	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
4.00	0.11200	21.00	0.11	5.69	6.58	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
3.90	0.11200	21.00	0.11	5.69	6.58	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
3.80	0.11200	21.00	0.11	5.69	6.58	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
3.70	0.11200	21.00	0.11	5.69	6.58	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
3.60	0.11200	21.00	0.11	5.69	6.59	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
3.50	0.11200	21.00	0.11	5.69	6.59	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
3.40	0.11200	21.00	0.11	5.69	6.59	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
3.30	0.11200	21.00	0.11	5.68	6.59	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
3.20	0.11200	21.00	0.11	5.68	6.59	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
3.10	0.11200	21.00	0.11	5.68	6.60	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
3.00	0.11200	21.00	0.11	5.68	6.60	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
2.90	0.11200	21.00	0.11	5.68	6.60	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
2.80	0.11200	21.00	0.11	5.68	6.61	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
2.70	0.11200	21.00	0.11	5.68	6.61	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
2.60	0.11200	21.00	0.11	5.67	6.61	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
2.50	0.11200	21.00	0.11	5.67	6.62	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
2.40	0.11200	21.00	0.11	5.67	6.62	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
2.30	0.11200	21.00	0.11	5.67	6.63	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
2.20	0.11200	21.00	0.11	5.67	6.63	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
2.10	0.11200	21.00	0.11	5.66	6.64	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
2.00	0.11200	21.00	0.11	5.66	6.64	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42

1.90	0.11200	21.00	0.10	5.66	6.65	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
1.80	0.11200	21.00	0.10	5.66	6.66	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
1.70	0.11200	21.00	0.10	5.66	6.67	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
1.60	0.11200	21.00	0.10	5.67	6.67	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
1.50	0.11200	21.00	0.10	5.67	6.68	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
1.40	0.11200	21.00	0.10	5.68	6.70	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
1.30	0.11200	21.00	0.10	5.70	6.71	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
1.20	0.11200	21.00	0.10	5.71	6.72	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
1.10	0.11200	21.00	0.10	5.74	6.74	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
1.00	0.11200	21.00	0.10	5.78	6.75	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
0.90	0.11200	21.00	0.10	5.82	6.77	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
0.80	0.11200	21.00	0.10	5.88	6.79	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
0.70	0.11200	21.00	0.10	5.97	6.82	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
0.60	0.11200	21.00	0.10	6.07	6.84	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
0.50	0.11200	21.00	0.10	6.21	6.87	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
0.40	0.11200	21.00	0.10	6.38	6.90	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
0.30	0.11200	21.00	0.10	6.61	6.94	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
0.20	0.11200	21.00	0.10	6.90	6.98	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
0.10	0.11200	21.00	0.10	7.26	7.02	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42
0.00	0.11200	21.00	0.10	7.73	7.07	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	1.42

CONDENSED CAPSULE SUMMARY FOR Bayou Verret

DIST km	FLOW m^3/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 $g/m^2/d$
HDWTR	0.02800	21.00	0.25	7.91	7.81	0.00	0.00	0.00	0.00							
3.10	0.02800	21.00	0.19	6.10	5.80	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
3.00	0.02800	21.00	0.19	5.90	5.51	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
2.90	0.02800	21.00	0.18	5.75	5.23	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
2.80	0.02800	21.00	0.18	5.64	4.96	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
2.70	0.02800	21.00	0.18	5.57	4.71	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
2.60	0.02800	21.00	0.17	5.52	4.47	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
2.50	0.02800	21.00	0.17	5.48	4.24	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
2.40	0.02800	21.00	0.16	5.47	4.03	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
2.30	0.02800	21.00	0.16	5.46	3.82	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
2.20	0.02800	21.00	0.16	5.46	3.63	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
2.10	0.02800	21.00	0.15	5.46	3.44	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
2.00	0.02800	21.00	0.15	5.47	3.27	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
1.90	0.02800	21.00	0.15	5.48	3.10	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
1.80	0.02800	21.00	0.14	5.49	2.94	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
1.70	0.02800	21.00	0.14	5.51	2.79	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
1.60	0.02800	21.00	0.13	5.52	2.65	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
1.50	0.02800	21.00	0.13	5.53	2.51	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
1.40	0.02800	21.00	0.13	5.55	2.38	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
1.30	0.02800	21.00	0.12	5.56	2.26	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
1.20	0.02800	21.00	0.12	5.58	2.14	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
1.10	0.02800	21.00	0.12	5.59	2.03	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
1.00	0.02800	21.00	0.11	5.61	1.92	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
0.90	0.02800	21.00	0.11	5.62	1.82	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
0.80	0.02800	21.00	0.11	5.63	1.72	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
0.70	0.02800	21.00	0.10	5.64	1.62	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
0.60	0.02800	21.00	0.10	5.65	1.53	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
0.50	0.02800	21.00	0.09	5.66	1.43	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
0.40	0.02800	21.00	0.09	5.67	1.34	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
0.30	0.02800	21.00	0.09	5.68	1.25	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
0.20	0.02800	21.00	0.08	5.68	1.16	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
0.10	0.02800	21.00	0.08	5.67	1.07	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14
0.00	0.02800	21.00	0.08	5.66	0.97	0.00	0.00	0.00	0.00	0.97	0.09	0.00	0.00	0.00	0.00	2.14

********** 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	0.02800	21.00	0.07	9.30	172.00	7.90	5.02	0.00	5.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.21

********** 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	38.30	38.20	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
2	38.20	38.10	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
3	38.10	38.00	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
4	38.00	37.90	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
5	37.90	37.80	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
6	37.80	37.70	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
7	37.70	37.60	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
8	37.60	37.50	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
9	37.50	37.40	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
10	37.40	37.30	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
11	37.30	37.20	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
12	37.20	37.10	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
13	37.10	37.00	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
14	37.00	36.90	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
15	36.90	36.80	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
16	36.80	36.70	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
17	36.70	36.60	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
18	36.60	36.50	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
19	36.50	36.40	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
20	36.40	36.30	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
21	36.30	36.20	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
22	36.20	36.10	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
23	36.10	36.00	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
24	36.00	35.90	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
25	35.90	35.80	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
26	35.80	35.70	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
27	35.70	35.60	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
28	35.60	35.50	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
29	35.50	35.40	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
30	35.40	35.30	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
31	35.30	35.20	0.02800	0.0	0.00110	1.05	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.001
TOT						32.68			79056.80	84103.00					
AVG					0.00110		0.94	27.13			25.50				
CUM						32.68									

********** 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	38.200	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
2	38.100	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
3	38.000	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
4	37.900	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
5	37.800	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
6	37.700	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
7	37.600	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
8	37.500	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
9	37.400	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
10	37.300	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
11	37.200	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
12	37.100	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
13	37.000	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
14	36.900	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
15	36.800	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
16	36.700	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
17	36.600	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
18	36.500	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
19	36.400	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
20	36.300	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
21	36.200	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
22	36.100	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
23	36.000	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
24	35.900	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
25	35.800	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
26	35.700	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
27	35.600	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
28	35.500	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
29	35.400	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
30	35.300	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
31	35.200	8.91	0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
AVG 20 DEG C RATE			0.72	0.09	0.00	0.00	0.00	0.00	0.00	2.07			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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	38.200	21.00	0.08	10.00	176.15	5.86	3.15	0.00	3.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.48
2	38.100	21.00	0.08	10.09	176.67	5.69	2.96	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.30
3	38.000	21.00	0.08	10.19	177.26	5.57	2.78	0.00	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.13
4	37.900	21.00	0.08	10.30	177.93	5.48	2.60	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.97
5	37.800	21.00	0.08	10.42	178.67	5.42	2.44	0.00	2.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.83
6	37.700	21.00	0.08	10.56	179.52	5.38	2.29	0.00	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
7	37.600	21.00	0.08	10.72	180.46	5.36	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.57
8	37.500	21.00	0.08	10.90	181.53	5.35	2.02	0.00	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.46
9	37.400	21.00	0.08	11.11	182.74	5.35	1.89	0.00	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35

10	37.300	21.00	0.08	11.33	184.09	5.35	1.78	0.00	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.25
11	37.200	21.00	0.08	11.59	185.62	5.36	1.67	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.16
12	37.100	21.00	0.08	11.88	187.34	5.37	1.57	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.08
13	37.000	21.00	0.08	12.21	189.27	5.39	1.47	0.00	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
14	36.900	21.00	0.08	12.57	191.45	5.40	1.39	0.00	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.93
15	36.800	21.00	0.08	12.99	193.91	5.42	1.30	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.86
16	36.700	21.00	0.08	13.45	196.67	5.43	1.23	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80
17	36.600	21.00	0.08	13.98	199.78	5.45	1.16	0.00	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.74
18	36.500	21.00	0.08	14.57	203.29	5.46	1.10	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.69
19	36.400	21.00	0.08	15.23	207.24	5.48	1.04	0.00	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.64
20	36.300	21.00	0.08	15.98	211.68	5.49	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
21	36.200	21.00	0.08	16.82	216.69	5.51	0.94	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
22	36.100	21.00	0.08	17.77	222.33	5.52	0.90	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
23	36.000	21.00	0.08	18.84	228.69	5.53	0.86	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.47
24	35.900	21.00	0.08	20.04	235.84	5.54	0.84	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.44
25	35.800	21.00	0.08	21.40	243.90	5.55	0.81	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.40
26	35.700	21.00	0.08	22.93	252.97	5.56	0.80	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
27	35.600	21.00	0.08	24.64	263.19	5.57	0.79	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.35
28	35.500	21.00	0.08	26.58	274.69	5.58	0.80	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.32
29	35.400	21.00	0.08	28.76	287.65	5.60	0.81	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.30
30	35.300	21.00	0.08	31.22	302.25	5.61	0.84	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.28
31	35.200	21.00	0.08	33.98	318.69	5.63	0.88	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.26

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 3 Bayou Citamon WINTER Projection Meeting DO standard of 5 mg/L

********** 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
64	UPR RCH	0.02800	21.00	0.08	33.98	318.69	5.63	0.88	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
64	TRIB	0.02800	21.00	0.08	38.68	346.61	5.66	0.97	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24

********** 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
64	35.20	35.10	0.05600	0.0	0.00220	0.53	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.002
65	35.10	35.00	0.05600	0.0	0.00220	0.53	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.002
66	35.00	34.90	0.05600	0.0	0.00220	0.53	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.002
67	34.90	34.80	0.05600	0.0	0.00220	0.53	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.002
68	34.80	34.70	0.05600	0.0	0.00220	0.53	0.94	27.13	2550.22	2713.00	25.50	0.00	0.000	0.870	0.002
TOT						2.64			12751.10	13565.00					
AVG					0.00220		0.94	27.13			25.50				
CUM						35.31									

********** 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
64	35.100	8.91	0.75	0.09	0.00	0.00	0.00	0.00	0.00	2.16	2.16	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
65	35.000	8.91	0.75	0.09	0.00	0.00	0.00	0.00	0.00	2.16	2.16	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
66	34.900	8.91	0.75	0.09	0.00	0.00	0.00	0.00	0.00	2.16	2.16	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
67	34.800	8.91	0.75	0.09	0.00	0.00	0.00	0.00	0.00	2.16	2.16	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
68	34.700	8.91	0.75	0.09	0.00	0.00	0.00	0.00	0.00	2.16	2.16	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
AVG 20 DEG C RATE			0.74	0.09	0.00	0.00	0.00	0.00	0.00	2.03			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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
64	35.100	21.00	0.08	37.10	337.20	5.66	0.93	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
65	35.000	21.00	0.09	37.10	337.20	5.66	0.92	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.23
66	34.900	21.00	0.10	37.10	337.20	5.67	0.90	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.22
67	34.800	21.00	0.10	37.10	337.20	5.67	0.89	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.21
68	34.700	21.00	0.11	37.10	337.20	5.66	0.86	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.19

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 4 Bayou Citamon WINTER Projection Meeting DO standard of 5 mg/L

********** 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
69	UPR RCH	0.05600	21.00	0.11	37.10	337.20	5.66	0.86	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19

********** 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
69	34.70	34.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
70	34.60	34.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
71	34.50	34.40	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
72	34.40	34.30	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
73	34.30	34.20	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
74	34.20	34.10	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
75	34.10	34.00	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
76	34.00	33.90	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
77	33.90	33.80	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
78	33.80	33.70	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
79	33.70	33.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
80	33.60	33.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
81	33.50	33.40	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
82	33.40	33.30	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
83	33.30	33.20	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
84	33.20	33.10	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
85	33.10	33.00	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
86	33.00	32.90	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
87	32.90	32.80	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
88	32.80	32.70	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
89	32.70	32.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
90	32.60	32.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
91	32.50	32.40	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
92	32.40	32.30	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
93	32.30	32.20	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
94	32.20	32.10	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
95	32.10	32.00	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
96	32.00	31.90	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
97	31.90	31.80	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
98	31.80	31.70	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
99	31.70	31.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
100	31.60	31.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
101	31.50	31.40	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
102	31.40	31.30	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
103	31.30	31.20	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
104	31.20	31.10	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
105	31.10	31.00	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
106	31.00	30.90	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
107	30.90	30.80	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
108	30.80	30.70	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
109	30.70	30.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
110	30.60	30.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
111	30.50	30.40	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
112	30.40	30.30	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
113	30.30	30.20	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
114	30.20	30.10	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
115	30.10	30.00	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
116	30.00	29.90	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
117	29.90	29.80	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
118	29.80	29.70	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002

119	29.70	29.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
120	29.60	29.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
121	29.50	29.40	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
122	29.40	29.30	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
123	29.30	29.20	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
124	29.20	29.10	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
125	29.10	29.00	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
126	29.00	28.90	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
127	28.90	28.80	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
128	28.80	28.70	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
129	28.70	28.60	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
130	28.60	28.50	0.05600	0.0	0.00245	0.47	1.04	21.94	2281.76	2194.00	22.82	0.00	0.000	0.870	0.002
TOT						29.24			141469.11	136028.00					
AVG					0.00245		1.04	21.94			22.82				
CUM						64.55									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
69	34.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
70	34.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
71	34.400	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
72	34.300	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
73	34.200	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
74	34.100	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
75	34.000	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
76	33.900	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
77	33.800	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
78	33.700	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
79	33.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
80	33.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
81	33.400	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
82	33.300	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
83	33.200	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
84	33.100	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
85	33.000	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
86	32.900	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
87	32.800	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
88	32.700	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
89	32.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
90	32.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
91	32.400	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
92	32.300	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
93	32.200	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
94	32.100	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
95	32.000	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
96	31.900	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
97	31.800	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
98	31.700	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
99	31.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
100	31.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00

101	31.400	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
102	31.300	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
103	31.200	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
104	31.100	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
105	31.000	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
106	30.900	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
107	30.800	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
108	30.700	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
109	30.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
110	30.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
111	30.400	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
112	30.300	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
113	30.200	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
114	30.100	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
115	30.000	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
116	29.900	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
117	29.800	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
118	29.700	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
119	29.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
120	29.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
121	29.400	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
122	29.300	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
123	29.200	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
124	29.100	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
125	29.000	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
126	28.900	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
127	28.800	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
128	28.700	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
129	28.600	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
130	28.500	8.91	0.69	0.10	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
AVG 20 DEG C RATE			0.67	0.10	0.00	0.00	0.00	0.00	0.00	2.11			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.19	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
69	34.600	21.00	0.11	37.10	337.20	5.65	0.83	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.18
70	34.500	21.00	0.11	37.10	337.20	5.64	0.81	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.17
71	34.400	21.00	0.11	37.10	337.20	5.64	0.78	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.16
72	34.300	21.00	0.11	37.10	337.20	5.63	0.75	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.14
73	34.200	21.00	0.11	37.10	337.20	5.63	0.73	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.13
74	34.100	21.00	0.11	37.10	337.20	5.63	0.70	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12
75	34.000	21.00	0.11	37.10	337.20	5.63	0.68	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12
76	33.900	21.00	0.11	37.10	337.20	5.63	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.11
77	33.800	21.00	0.11	37.10	337.20	5.63	0.63	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
78	33.700	21.00	0.11	37.10	337.20	5.63	0.61	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09
79	33.600	21.00	0.11	37.10	337.20	5.64	0.59	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09
80	33.500	21.00	0.11	37.10	337.20	5.64	0.57	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
81	33.400	21.00	0.11	37.10	337.20	5.64	0.56	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
82	33.300	21.00	0.11	37.10	337.20	5.65	0.54	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
83	33.200	21.00	0.11	37.10	337.20	5.65	0.52	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06

84	33.100	21.00	0.11	37.10	337.20	5.65	0.51	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
85	33.000	21.00	0.11	37.10	337.20	5.66	0.49	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
86	32.900	21.00	0.11	37.10	337.20	5.66	0.48	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
87	32.800	21.00	0.11	37.10	337.20	5.66	0.46	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
88	32.700	21.00	0.11	37.10	337.20	5.66	0.45	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
89	32.600	21.00	0.11	37.10	337.20	5.67	0.44	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
90	32.500	21.00	0.11	37.10	337.20	5.67	0.42	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
91	32.400	21.00	0.11	37.10	337.20	5.67	0.41	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
92	32.300	21.00	0.11	37.10	337.20	5.68	0.40	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
93	32.200	21.00	0.11	37.10	337.20	5.68	0.39	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
94	32.100	21.00	0.11	37.10	337.20	5.68	0.38	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
95	32.000	21.00	0.11	37.10	337.20	5.68	0.37	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
96	31.900	21.00	0.11	37.10	337.20	5.69	0.36	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
97	31.800	21.00	0.11	37.10	337.20	5.69	0.35	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
98	31.700	21.00	0.11	37.10	337.20	5.69	0.34	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
99	31.600	21.00	0.11	37.10	337.19	5.69	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
100	31.500	21.00	0.10	37.10	337.19	5.70	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
101	31.400	21.00	0.10	37.10	337.19	5.70	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
102	31.300	21.00	0.10	37.10	337.19	5.70	0.31	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
103	31.200	21.00	0.10	37.10	337.18	5.70	0.30	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
104	31.100	21.00	0.10	37.10	337.18	5.70	0.30	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
105	31.000	21.00	0.10	37.10	337.17	5.70	0.29	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
106	30.900	21.00	0.10	37.10	337.17	5.71	0.28	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
107	30.800	21.00	0.10	37.10	337.16	5.71	0.28	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
108	30.700	21.00	0.10	37.10	337.14	5.71	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
109	30.600	21.00	0.10	37.09	337.13	5.71	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
110	30.500	21.00	0.10	37.09	337.11	5.71	0.26	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
111	30.400	21.00	0.10	37.09	337.08	5.71	0.26	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
112	30.300	21.00	0.10	37.09	337.05	5.71	0.25	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
113	30.200	21.00	0.10	37.09	337.01	5.71	0.25	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
114	30.100	21.00	0.10	37.08	336.95	5.71	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
115	30.000	21.00	0.10	37.08	336.88	5.72	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
116	29.900	21.00	0.10	37.07	336.79	5.72	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
117	29.800	21.00	0.10	37.06	336.68	5.72	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
118	29.700	21.00	0.10	37.05	336.53	5.72	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
119	29.600	21.00	0.10	37.04	336.34	5.72	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
120	29.500	21.00	0.10	37.02	336.10	5.72	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
121	29.400	21.00	0.10	36.99	335.79	5.72	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
122	29.300	21.00	0.10	36.96	335.39	5.71	0.25	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
123	29.200	21.00	0.10	36.93	334.88	5.71	0.26	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
124	29.100	21.00	0.10	36.88	334.23	5.71	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
125	29.000	21.00	0.10	36.81	333.39	5.71	0.29	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
126	28.900	21.00	0.10	36.73	332.32	5.70	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
127	28.800	21.00	0.10	36.63	330.94	5.70	0.36	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
128	28.700	21.00	0.10	36.50	329.17	5.70	0.41	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
129	28.600	21.00	0.10	36.33	326.91	5.69	0.48	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
130	28.500	21.00	0.10	36.11	324.01	5.69	0.58	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 5 Bayou Citamon WINTER Projection Meeting DO standard of 5 mg/L

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

ELEM	TYPE	FLOW	TEMP	SALN	CL	COND	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NBOD

NO.			deg C	ppt	mg/L	umhos	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL	mg/L
131	UPR RCH	0.05600	21.00	0.10	36.11	324.01	5.69	0.58	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
138	WSTLD	0.02800	25.64	0.11	29.10	230.60	7.93	6.95	0.00	6.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13
187	WSTLD	-0.02800	21.00	0.12	34.43	301.66	5.80	0.54	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

********** 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
131	28.50	28.40	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
132	28.40	28.30	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
133	28.30	28.20	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
134	28.20	28.10	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
135	28.10	28.00	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
136	28.00	27.90	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
137	27.90	27.80	0.05600	0.0	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
138	27.80	27.70	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
139	27.70	27.60	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
140	27.60	27.50	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
141	27.50	27.40	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
142	27.40	27.30	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
143	27.30	27.20	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
144	27.20	27.10	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
145	27.10	27.00	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
146	27.00	26.90	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
147	26.90	26.80	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
148	26.80	26.70	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
149	26.70	26.60	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
150	26.60	26.50	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
151	26.50	26.40	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
152	26.40	26.30	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
153	26.30	26.20	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
154	26.20	26.10	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
155	26.10	26.00	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
156	26.00	25.90	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
157	25.90	25.80	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
158	25.80	25.70	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
159	25.70	25.60	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
160	25.60	25.50	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
161	25.50	25.40	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
162	25.40	25.30	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
163	25.30	25.20	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
164	25.20	25.10	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
165	25.10	25.00	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
166	25.00	24.90	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
167	24.90	24.80	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
168	24.80	24.70	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
169	24.70	24.60	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
170	24.60	24.50	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
171	24.50	24.40	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
172	24.40	24.30	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
173	24.30	24.20	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002

174	24.20	24.10	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
175	24.10	24.00	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
176	24.00	23.90	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
177	23.90	23.80	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
178	23.80	23.70	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
179	23.70	23.60	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
180	23.60	23.50	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
181	23.50	23.40	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
182	23.40	23.30	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
183	23.30	23.20	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
184	23.20	23.10	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
185	23.10	23.00	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
186	23.00	22.90	0.08400	33.3	0.00212	0.55	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.002
187	22.90	22.80	0.05600	33.3	0.00141	0.82	1.29	30.78	3970.62	3078.00	39.71	0.00	0.000	1.120	0.001
TOT						33.37			226325.42	175446.00					
AVG					0.00198		1.29	30.78			39.71				
CUM						97.93									

********** 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
131	28.400	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
132	28.300	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
133	28.200	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
134	28.100	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
135	28.000	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
136	27.900	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
137	27.800	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
138	27.700	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
139	27.600	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
140	27.500	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
141	27.400	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
142	27.300	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
143	27.200	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
144	27.100	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
145	27.000	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
146	26.900	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
147	26.800	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
148	26.700	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
149	26.600	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
150	26.500	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
151	26.400	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
152	26.300	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
153	26.200	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
154	26.100	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
155	26.000	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
156	25.900	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
157	25.800	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
158	25.700	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
159	25.600	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
160	25.500	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00

161	25.400	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
162	25.300	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
163	25.200	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
164	25.100	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
165	25.000	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
166	24.900	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
167	24.800	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
168	24.700	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
169	24.600	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
170	24.500	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
171	24.400	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
172	24.300	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
173	24.200	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
174	24.100	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
175	24.000	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
176	23.900	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
177	23.800	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
178	23.700	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
179	23.600	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
180	23.500	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
181	23.400	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
182	23.300	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
183	23.200	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
184	23.100	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
185	23.000	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
186	22.900	8.91	0.55	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
187	22.800	8.91	0.54	0.10	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
AVG	20 DEG C RATE		0.54	0.10	0.00	0.00	0.00	0.00	0.00	2.01			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.19	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
131	28.400	21.00	0.10	35.94	321.71	5.69	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
132	28.300	21.00	0.10	35.79	319.76	5.69	0.73	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12
133	28.200	21.00	0.10	35.63	317.56	5.69	0.82	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.14
134	28.100	21.00	0.10	35.44	315.09	5.70	0.92	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.17
135	28.000	21.00	0.10	35.23	312.31	5.71	1.05	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
136	27.900	21.00	0.10	35.00	309.17	5.73	1.21	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
137	27.800	21.00	0.10	34.73	305.64	5.77	1.40	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.30
138	27.700	21.00	0.10	34.43	301.67	5.82	1.62	0.00	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.37
139	27.600	21.00	0.10	34.43	301.67	5.78	1.56	0.00	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
140	27.500	21.00	0.10	34.43	301.67	5.74	1.49	0.00	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.32
141	27.400	21.00	0.10	34.43	301.67	5.71	1.43	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
142	27.300	21.00	0.10	34.43	301.67	5.69	1.37	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.27
143	27.200	21.00	0.10	34.43	301.67	5.68	1.32	0.00	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
144	27.100	21.00	0.10	34.43	301.67	5.66	1.27	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.23
145	27.000	21.00	0.11	34.43	301.67	5.66	1.22	0.00	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.21
146	26.900	21.00	0.11	34.43	301.67	5.65	1.17	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
147	26.800	21.00	0.11	34.43	301.67	5.65	1.12	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.18
148	26.700	21.00	0.11	34.43	301.67	5.65	1.08	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.17
149	26.600	21.00	0.11	34.43	301.67	5.65	1.03	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.16
150	26.500	21.00	0.11	34.43	301.67	5.65	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.15
151	26.400	21.00	0.11	34.43	301.67	5.66	0.96	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.14
152	26.300	21.00	0.11	34.43	301.67	5.66	0.92	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.13
153	26.200	21.00	0.11	34.43	301.67	5.67	0.88	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12
154	26.100	21.00	0.11	34.43	301.67	5.67	0.85	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.11
155	26.000	21.00	0.11	34.43	301.67	5.68	0.82	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
156	25.900	21.00	0.11	34.43	301.67	5.68	0.79	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09
157	25.800	21.00	0.11	34.43	301.67	5.69	0.76	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09
158	25.700	21.00	0.11	34.43	301.67	5.70	0.73	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
159	25.600	21.00	0.11	34.43	301.67	5.70	0.70	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
160	25.500	21.00	0.11	34.43	301.67	5.71	0.68	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
161	25.400	21.00	0.11	34.43	301.67	5.71	0.65	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
162	25.300	21.00	0.11	34.43	301.67	5.72	0.63	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
163	25.200	21.00	0.11	34.43	301.67	5.73	0.61	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
164	25.100	21.00	0.11	34.43	301.67	5.73	0.59	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
165	25.000	21.00	0.11	34.43	301.67	5.74	0.57	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
166	24.900	21.00	0.11	34.43	301.67	5.74	0.55	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
167	24.800	21.00	0.11	34.43	301.67	5.75	0.53	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
168	24.700	21.00	0.11	34.43	301.67	5.75	0.51	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
169	24.600	21.00	0.11	34.43	301.67	5.76	0.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
170	24.500	21.00	0.11	34.43	301.67	5.76	0.48	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
171	24.400	21.00	0.11	34.43	301.67	5.77	0.47	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
172	24.300	21.00	0.11	34.43	301.67	5.77	0.46	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
173	24.200	21.00	0.12	34.43	301.67	5.77	0.44	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
174	24.100	21.00	0.12	34.43	301.67	5.78	0.43	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
175	24.000	21.00	0.12	34.43	301.67	5.78	0.42	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
176	23.900	21.00	0.12	34.43	301.67	5.78	0.42	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
177	23.800	21.00	0.12	34.43	301.67	5.79	0.41	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
178	23.700	21.00	0.12	34.43	301.67	5.79	0.41	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
179	23.600	21.00	0.12	34.43	301.67	5.79	0.40	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
180	23.500	21.00	0.12	34.43	301.67	5.79	0.40	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
181	23.400	21.00	0.12	34.43	301.67	5.79	0.41	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01

182	23.300	21.00	0.12	34.43	301.67	5.79	0.42	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
183	23.200	21.00	0.12	34.43	301.67	5.79	0.43	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
184	23.100	21.00	0.12	34.43	301.67	5.79	0.44	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
185	23.000	21.00	0.12	34.43	301.66	5.79	0.47	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
186	22.900	21.00	0.12	34.43	301.66	5.79	0.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
187	22.800	21.00	0.12	34.43	301.66	5.80	0.54	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01

FINAL REPORT Baker Canal East LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
REACH NO. 6 Bayou Chevreuil WINTER Projection Meeting DO standard of 5 mg/L

********** 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
188	UPR RCH	0.05600	21.00	0.12	34.43	301.66	5.80	0.54	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

********** 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
188	22.80	22.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
189	22.70	22.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
190	22.60	22.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
191	22.50	22.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
192	22.40	22.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
193	22.30	22.20	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
194	22.20	22.10	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
195	22.10	22.00	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
196	22.00	21.90	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
197	21.90	21.80	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
198	21.80	21.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
199	21.70	21.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
200	21.60	21.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
201	21.50	21.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
202	21.40	21.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
203	21.30	21.20	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
204	21.20	21.10	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
205	21.10	21.00	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
206	21.00	20.90	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
207	20.90	20.80	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
208	20.80	20.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
209	20.70	20.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
210	20.60	20.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
211	20.50	20.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
212	20.40	20.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
213	20.30	20.20	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
214	20.20	20.10	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
215	20.10	20.00	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
216	20.00	19.90	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
217	19.90	19.80	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002

218	19.80	19.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
219	19.70	19.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
220	19.60	19.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
221	19.50	19.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
222	19.40	19.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
223	19.30	19.20	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
224	19.20	19.10	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
225	19.10	19.00	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
226	19.00	18.90	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
227	18.90	18.80	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
228	18.80	18.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
229	18.70	18.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
230	18.60	18.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
231	18.50	18.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
232	18.40	18.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
233	18.30	18.20	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
234	18.20	18.10	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
235	18.10	18.00	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
236	18.00	17.90	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
237	17.90	17.80	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
238	17.80	17.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
239	17.70	17.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
240	17.60	17.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
241	17.50	17.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
242	17.40	17.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
243	17.30	17.20	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
244	17.20	17.10	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
245	17.10	17.00	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
246	17.00	16.90	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
247	16.90	16.80	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
248	16.80	16.70	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
249	16.70	16.60	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
250	16.60	16.50	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
251	16.50	16.40	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
252	16.40	16.30	0.05600	33.3	0.00187	0.62	1.17	25.60	2995.20	2560.00	29.95	0.00	0.000	1.380	0.002
TOT						40.24			194688.12	166400.00					
AVG					0.00187		1.17	25.60			29.95				
CUM						138.16									

********** 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
188	22.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
189	22.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
190	22.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
191	22.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
192	22.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
193	22.200	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
194	22.100	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
195	22.000	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
196	21.900	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
197	21.800	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
198	21.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
199	21.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
200	21.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
201	21.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
202	21.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
203	21.200	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
204	21.100	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
205	21.000	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
206	20.900	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
207	20.800	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
208	20.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
209	20.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
210	20.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
211	20.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
212	20.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
213	20.200	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
214	20.100	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
215	20.000	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
216	19.900	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
217	19.800	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
218	19.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
219	19.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
220	19.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
221	19.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
222	19.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
223	19.200	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
224	19.100	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
225	19.000	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
226	18.900	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
227	18.800	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
228	18.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
229	18.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
230	18.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
231	18.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
232	18.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
233	18.200	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
234	18.100	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
235	18.000	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
236	17.900	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
237	17.800	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00

238	17.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
239	17.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
240	17.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
241	17.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
242	17.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
243	17.200	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
244	17.100	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
245	17.000	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
246	16.900	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
247	16.800	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
248	16.700	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
249	16.600	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
250	16.500	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
251	16.400	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
252	16.300	8.91	0.60	0.10	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
AVG 20 DEG C RATE			0.59	0.10	0.00	0.00	0.00	0.00	0.00	1.95			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.19	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
188	22.700	21.00	0.12	34.43	301.66	5.80	0.60	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
189	22.600	21.00	0.12	34.43	301.66	5.80	0.66	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
190	22.500	21.00	0.12	34.43	301.66	5.80	0.71	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
191	22.400	21.00	0.12	34.43	301.66	5.80	0.76	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
192	22.300	21.00	0.12	34.43	301.66	5.80	0.81	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
193	22.200	21.00	0.12	34.43	301.66	5.80	0.86	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
194	22.100	21.00	0.12	34.43	301.66	5.80	0.90	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
195	22.000	21.00	0.12	34.43	301.66	5.80	0.94	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
196	21.900	21.00	0.12	34.43	301.66	5.79	0.98	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
197	21.800	21.00	0.12	34.43	301.65	5.79	1.02	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
198	21.700	21.00	0.12	34.43	301.65	5.78	1.06	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
199	21.600	21.00	0.12	34.43	301.65	5.78	1.09	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
200	21.500	21.00	0.12	34.43	301.65	5.77	1.13	0.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
201	21.400	21.00	0.12	34.43	301.65	5.77	1.16	0.00	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
202	21.300	21.00	0.12	34.43	301.64	5.77	1.19	0.00	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
203	21.200	21.00	0.12	34.43	301.64	5.76	1.22	0.00	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
204	21.100	21.00	0.12	34.43	301.64	5.76	1.24	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
205	21.000	21.00	0.12	34.43	301.63	5.75	1.27	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
206	20.900	21.00	0.12	34.43	301.63	5.75	1.30	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
207	20.800	21.00	0.12	34.43	301.62	5.74	1.32	0.00	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
208	20.700	21.00	0.12	34.43	301.62	5.74	1.34	0.00	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
209	20.600	21.00	0.12	34.43	301.61	5.74	1.37	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
210	20.500	21.00	0.12	34.43	301.60	5.73	1.39	0.00	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
211	20.400	21.00	0.12	34.43	301.59	5.73	1.41	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
212	20.300	21.00	0.12	34.43	301.58	5.72	1.43	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
213	20.200	21.00	0.12	34.42	301.57	5.72	1.44	0.00	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
214	20.100	21.00	0.12	34.42	301.56	5.72	1.46	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
215	20.000	21.00	0.12	34.42	301.55	5.71	1.48	0.00	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
216	19.900	21.00	0.12	34.42	301.53	5.71	1.50	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
217	19.800	21.00	0.12	34.42	301.51	5.71	1.51	0.00	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

218	19.700	21.00	0.12	34.42	301.49	5.70	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
219	19.600	21.00	0.12	34.41	301.47	5.70	1.54	0.00	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
220	19.500	21.00	0.12	34.41	301.44	5.70	1.55	0.00	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
221	19.400	21.00	0.12	34.41	301.41	5.70	1.57	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
222	19.300	21.00	0.12	34.40	301.37	5.69	1.58	0.00	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
223	19.200	21.00	0.12	34.40	301.33	5.69	1.60	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
224	19.100	21.00	0.12	34.40	301.29	5.69	1.61	0.00	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
225	19.000	21.00	0.12	34.39	301.24	5.68	1.62	0.00	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
226	18.900	21.00	0.12	34.38	301.18	5.68	1.64	0.00	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
227	18.800	21.00	0.12	34.38	301.11	5.68	1.65	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
228	18.700	21.00	0.12	34.37	301.04	5.68	1.66	0.00	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
229	18.600	21.00	0.12	34.36	300.95	5.67	1.68	0.00	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
230	18.500	21.00	0.12	34.35	300.85	5.67	1.69	0.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
231	18.400	21.00	0.12	34.34	300.74	5.67	1.71	0.00	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
232	18.300	21.00	0.12	34.33	300.62	5.66	1.73	0.00	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
233	18.200	21.00	0.12	34.32	300.47	5.66	1.75	0.00	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
234	18.100	21.00	0.12	34.30	300.31	5.66	1.77	0.00	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
235	18.000	21.00	0.12	34.28	300.13	5.65	1.79	0.00	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
236	17.900	21.00	0.12	34.26	299.92	5.65	1.82	0.00	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
237	17.800	21.00	0.12	34.24	299.68	5.64	1.85	0.00	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
238	17.700	21.00	0.12	34.21	299.42	5.63	1.88	0.00	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
239	17.600	21.00	0.12	34.18	299.11	5.63	1.92	0.00	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
240	17.500	21.00	0.12	34.15	298.76	5.62	1.97	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
241	17.400	21.00	0.12	34.11	298.37	5.62	2.02	0.00	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
242	17.300	21.00	0.12	34.06	297.92	5.61	2.09	0.00	2.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
243	17.200	21.00	0.12	34.01	297.42	5.60	2.16	0.00	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
244	17.100	21.00	0.12	33.96	296.84	5.59	2.25	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
245	17.000	21.00	0.12	33.89	296.19	5.59	2.35	0.00	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
246	16.900	21.00	0.12	33.82	295.44	5.59	2.47	0.00	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
247	16.800	21.00	0.12	33.73	294.60	5.59	2.62	0.00	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
248	16.700	21.00	0.12	33.64	293.64	5.59	2.79	0.00	2.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
249	16.600	21.00	0.12	33.53	292.55	5.60	2.99	0.00	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12
250	16.500	21.00	0.12	33.41	291.32	5.63	3.23	0.00	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.14
251	16.400	21.00	0.12	33.27	289.92	5.67	3.51	0.00	3.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.18
252	16.300	21.00	0.12	33.11	288.33	5.74	3.85	0.00	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.22

********** 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
253	UPR RCH	0.05600	21.00	0.12	33.11	288.33	5.74	3.85	0.00	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
255	WSTLD	0.02800	26.07	0.13	31.70	272.60	7.89	6.27	0.00	6.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.95
268	WSTLD	0.02800	26.25	0.11	27.00	230.90	7.91	6.45	0.00	6.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.69

********** 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
253	16.30	16.20	0.05600	33.3	0.00080	1.44	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
254	16.20	16.10	0.05600	33.3	0.00080	1.44	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
255	16.10	16.00	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
256	16.00	15.90	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
257	15.90	15.80	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
258	15.80	15.70	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
259	15.70	15.60	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
260	15.60	15.50	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
261	15.50	15.40	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
262	15.40	15.30	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
263	15.30	15.20	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
264	15.20	15.10	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
265	15.10	15.00	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
266	15.00	14.90	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
267	14.90	14.80	0.08400	55.6	0.00120	0.96	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.001
268	14.80	14.70	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
269	14.70	14.60	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
270	14.60	14.50	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
271	14.50	14.40	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
272	14.40	14.30	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
273	14.30	14.20	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
274	14.20	14.10	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
275	14.10	14.00	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
276	14.00	13.90	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
277	13.90	13.80	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
278	13.80	13.70	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
279	13.70	13.60	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
280	13.60	13.50	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
281	13.50	13.40	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
282	13.40	13.30	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
283	13.30	13.20	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
284	13.20	13.10	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
285	13.10	13.00	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
286	13.00	12.90	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
287	12.90	12.80	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
288	12.80	12.70	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002

289	12.70	12.60	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
290	12.60	12.50	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
291	12.50	12.40	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
292	12.40	12.30	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
293	12.30	12.20	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
294	12.20	12.10	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
295	12.10	12.00	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
296	12.00	11.90	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
297	11.90	11.80	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
298	11.80	11.70	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
299	11.70	11.60	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
300	11.60	11.50	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
301	11.50	11.40	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
302	11.40	11.30	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
303	11.30	11.20	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
304	11.20	11.10	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
305	11.10	11.00	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
306	11.00	10.90	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
307	10.90	10.80	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
308	10.80	10.70	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
309	10.70	10.60	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
310	10.60	10.50	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
311	10.50	10.40	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
312	10.40	10.30	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
313	10.30	10.20	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
314	10.20	10.10	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
315	10.10	10.00	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
316	10.00	9.90	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
317	9.90	9.80	0.11200	66.7	0.00160	0.72	1.57	44.50	6986.50	4450.00	69.87	0.00	0.000	1.630	0.002
TOT						51.50			454122.53	289250.00					
AVG					0.00146		1.57	44.50			69.87				
CUM						189.67									

********** 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
253	16.200	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
254	16.100	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
255	16.000	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
256	15.900	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
257	15.800	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
258	15.700	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
259	15.600	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
260	15.500	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
261	15.400	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
262	15.300	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
263	15.200	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
264	15.100	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
265	15.000	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
266	14.900	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
267	14.800	8.91	0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00

268	14.700	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
269	14.600	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
270	14.500	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
271	14.400	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
272	14.300	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
273	14.200	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
274	14.100	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
275	14.000	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
276	13.900	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
277	13.800	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
278	13.700	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
279	13.600	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
280	13.500	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
281	13.400	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
282	13.300	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
283	13.200	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
284	13.100	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
285	13.000	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
286	12.900	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
287	12.800	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
288	12.700	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
289	12.600	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
290	12.500	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
291	12.400	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
292	12.300	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
293	12.200	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
294	12.100	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
295	12.000	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
296	11.900	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
297	11.800	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
298	11.700	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
299	11.600	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
300	11.500	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
301	11.400	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
302	11.300	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
303	11.200	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
304	11.100	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
305	11.000	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
306	10.900	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
307	10.800	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
308	10.700	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
309	10.600	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
310	10.500	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
311	10.400	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
312	10.300	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
313	10.200	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
314	10.100	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
315	10.000	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
316	9.900	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
317	9.800	8.91	0.45	0.07	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
AVG 20 DEG C RATE			0.44	0.07	0.00	0.00	0.00	0.00	0.00	1.41			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.28	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
253	16.200	21.00	0.12	33.02	287.36	5.80	4.07	0.00	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
254	16.100	21.00	0.12	32.95	286.66	5.84	4.21	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.27
255	16.000	21.00	0.12	32.88	285.92	5.88	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.30
256	15.900	21.00	0.12	32.83	285.47	5.87	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.27
257	15.800	21.00	0.12	32.78	284.99	5.87	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
258	15.700	21.00	0.12	32.72	284.48	5.86	4.61	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.23
259	15.600	21.00	0.12	32.66	283.93	5.86	4.69	0.00	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.22
260	15.500	21.00	0.12	32.60	283.33	5.85	4.77	0.00	4.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.21
261	15.400	21.00	0.12	32.53	282.70	5.85	4.85	0.00	4.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
262	15.300	21.00	0.12	32.46	282.01	5.85	4.92	0.00	4.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
263	15.200	21.00	0.12	32.38	281.28	5.85	4.99	0.00	4.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
264	15.100	21.00	0.12	32.30	280.49	5.86	5.06	0.00	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
265	15.000	21.00	0.12	32.20	279.64	5.86	5.13	0.00	5.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.21
266	14.900	21.00	0.12	32.11	278.73	5.87	5.20	0.00	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.22
267	14.800	21.00	0.12	32.00	277.75	5.89	5.26	0.00	5.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
268	14.700	21.00	0.12	31.89	276.70	5.91	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.27
269	14.600	21.00	0.12	31.89	276.70	5.89	5.37	0.00	5.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
270	14.500	21.00	0.12	31.89	276.70	5.87	5.40	0.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.22
271	14.400	21.00	0.12	31.89	276.70	5.86	5.44	0.00	5.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.20
272	14.300	21.00	0.12	31.89	276.70	5.85	5.47	0.00	5.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.18
273	14.200	21.00	0.12	31.89	276.70	5.84	5.50	0.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.16
274	14.100	21.00	0.12	31.89	276.70	5.83	5.53	0.00	5.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.14
275	14.000	21.00	0.12	31.89	276.70	5.82	5.56	0.00	5.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.13
276	13.900	21.00	0.12	31.89	276.70	5.81	5.59	0.00	5.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12
277	13.800	21.00	0.12	31.89	276.70	5.81	5.62	0.00	5.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.11
278	13.700	21.00	0.12	31.89	276.70	5.81	5.65	0.00	5.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.10
279	13.600	21.00	0.12	31.89	276.70	5.80	5.67	0.00	5.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09
280	13.500	21.00	0.12	31.89	276.70	5.80	5.70	0.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.08
281	13.400	21.00	0.12	31.89	276.70	5.80	5.72	0.00	5.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
282	13.300	21.00	0.12	31.89	276.70	5.79	5.74	0.00	5.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
283	13.200	21.00	0.12	31.89	276.70	5.79	5.77	0.00	5.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
284	13.100	21.00	0.12	31.89	276.70	5.79	5.79	0.00	5.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
285	13.000	21.00	0.12	31.89	276.70	5.79	5.81	0.00	5.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
286	12.900	21.00	0.12	31.89	276.70	5.79	5.83	0.00	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
287	12.800	21.00	0.12	31.89	276.70	5.79	5.85	0.00	5.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
288	12.700	21.00	0.12	31.89	276.70	5.78	5.87	0.00	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
289	12.600	21.00	0.12	31.89	276.70	5.78	5.88	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
290	12.500	21.00	0.12	31.89	276.70	5.78	5.90	0.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
291	12.400	21.00	0.12	31.89	276.70	5.78	5.92	0.00	5.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
292	12.300	21.00	0.12	31.89	276.70	5.78	5.93	0.00	5.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
293	12.200	21.00	0.12	31.89	276.70	5.78	5.95	0.00	5.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
294	12.100	21.00	0.12	31.89	276.70	5.78	5.96	0.00	5.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
295	12.000	21.00	0.12	31.89	276.69	5.78	5.98	0.00	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
296	11.900	21.00	0.12	31.89	276.69	5.77	5.99	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
297	11.800	21.00	0.12	31.89	276.69	5.77	6.01	0.00	6.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
298	11.700	21.00	0.12	31.89	276.69	5.77	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
299	11.600	21.00	0.12	31.90	276.69	5.77	6.03	0.00	6.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
300	11.500	21.00	0.12	31.90	276.69	5.77	6.05	0.00	6.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
301	11.400	21.00	0.12	31.90	276.69	5.77	6.06	0.00	6.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
302	11.300	21.00	0.12	31.90	276.69	5.77	6.07	0.00	6.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
303	11.200	21.00	0.12	31.90	276.69	5.76	6.08	0.00	6.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01

304	11.100	21.00	0.12	31.90	276.69	5.76	6.10	0.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
305	11.000	21.00	0.12	31.90	276.68	5.76	6.11	0.00	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
306	10.900	21.00	0.12	31.90	276.68	5.76	6.12	0.00	6.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
307	10.800	21.00	0.12	31.90	276.68	5.76	6.13	0.00	6.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
308	10.700	21.00	0.12	31.90	276.68	5.76	6.14	0.00	6.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
309	10.600	21.00	0.12	31.90	276.68	5.76	6.15	0.00	6.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
310	10.500	21.00	0.12	31.90	276.67	5.75	6.17	0.00	6.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
311	10.400	21.00	0.12	31.90	276.67	5.75	6.18	0.00	6.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
312	10.300	21.00	0.12	31.91	276.67	5.75	6.19	0.00	6.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
313	10.200	21.00	0.12	31.91	276.67	5.75	6.21	0.00	6.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
314	10.100	21.00	0.12	31.91	276.66	5.75	6.22	0.00	6.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
315	10.000	21.00	0.12	31.91	276.66	5.75	6.23	0.00	6.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
316	9.900	21.00	0.12	31.91	276.65	5.74	6.25	0.00	6.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
317	9.800	21.00	0.12	31.91	276.65	5.74	6.27	0.00	6.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

FINAL REPORT Baker Canal East
REACH NO. 8 Bayou Chevreuil

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
WINTER Projection Meeting DO standard of 5 mg/L

********** 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
318	UPR RCH	0.11200	21.00	0.12	31.91	276.65	5.74	6.27	0.00	6.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
318	9.80	9.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
319	9.70	9.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
320	9.60	9.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
321	9.50	9.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
322	9.40	9.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
323	9.30	9.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
324	9.20	9.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
325	9.10	9.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
326	9.00	8.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
327	8.90	8.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
328	8.80	8.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
329	8.70	8.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
330	8.60	8.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
331	8.50	8.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
332	8.40	8.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
333	8.30	8.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
334	8.20	8.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
335	8.10	8.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
336	8.00	7.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
337	7.90	7.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
338	7.80	7.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
339	7.70	7.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001

340	7.60	7.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
341	7.50	7.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
342	7.40	7.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
343	7.30	7.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
344	7.20	7.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
345	7.10	7.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
346	7.00	6.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
347	6.90	6.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
348	6.80	6.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
349	6.70	6.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
350	6.60	6.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
351	6.50	6.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
352	6.40	6.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
353	6.30	6.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
354	6.20	6.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
355	6.10	6.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
356	6.00	5.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
357	5.90	5.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
358	5.80	5.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
359	5.70	5.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
360	5.60	5.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
361	5.50	5.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
362	5.40	5.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
363	5.30	5.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
364	5.20	5.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
365	5.10	5.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
366	5.00	4.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
367	4.90	4.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
368	4.80	4.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
369	4.70	4.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
370	4.60	4.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
371	4.50	4.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
372	4.40	4.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
373	4.30	4.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
374	4.20	4.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
375	4.10	4.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
376	4.00	3.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
377	3.90	3.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
378	3.80	3.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
379	3.70	3.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
380	3.60	3.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
381	3.50	3.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
382	3.40	3.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
383	3.30	3.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
384	3.20	3.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
385	3.10	3.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
386	3.00	2.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
387	2.90	2.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
388	2.80	2.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
389	2.70	2.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
390	2.60	2.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
391	2.50	2.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
392	2.40	2.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
393	2.30	2.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
394	2.20	2.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
395	2.10	2.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001

396	2.00	1.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
397	1.90	1.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
398	1.80	1.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
399	1.70	1.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
400	1.60	1.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
401	1.50	1.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
402	1.40	1.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
403	1.30	1.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
404	1.20	1.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
405	1.10	1.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
406	1.00	0.90	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
407	0.90	0.80	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
408	0.80	0.70	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
409	0.70	0.60	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
410	0.60	0.50	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
411	0.50	0.40	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
412	0.40	0.30	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
413	0.30	0.20	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
414	0.20	0.10	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
415	0.10	0.00	0.11200	66.7	0.00133	0.87	1.71	49.07	8390.97	4907.00	83.91	0.00	0.000	1.880	0.001
TOT						84.98			822316.06	480886.00					
AVG					0.00133		1.71	49.07			83.91				
CUM						274.64									

********** 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
318	9.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
319	9.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
320	9.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
321	9.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
322	9.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
323	9.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
324	9.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
325	9.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
326	8.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
327	8.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
328	8.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
329	8.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
330	8.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
331	8.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
332	8.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
333	8.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
334	8.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
335	8.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
336	7.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
337	7.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
338	7.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
339	7.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
340	7.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
341	7.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00

342	7.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
343	7.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
344	7.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
345	7.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
346	6.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
347	6.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
348	6.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
349	6.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
350	6.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
351	6.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
352	6.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
353	6.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
354	6.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
355	6.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
356	5.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
357	5.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
358	5.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
359	5.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
360	5.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
361	5.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
362	5.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
363	5.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
364	5.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
365	5.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
366	4.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
367	4.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
368	4.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
369	4.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
370	4.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
371	4.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
372	4.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
373	4.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
374	4.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
375	4.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
376	3.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
377	3.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
378	3.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
379	3.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
380	3.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
381	3.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
382	3.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
383	3.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
384	3.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
385	3.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
386	2.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
387	2.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
388	2.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
389	2.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
390	2.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
391	2.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
392	2.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
393	2.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
394	2.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
395	2.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
396	1.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
397	1.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00

398	1.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
399	1.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
400	1.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
401	1.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
402	1.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
403	1.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
404	1.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
405	1.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
406	0.900	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
407	0.800	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
408	0.700	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
409	0.600	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
410	0.500	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
411	0.400	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
412	0.300	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
413	0.200	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
414	0.100	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
415	0.000	8.91	0.41	0.07	0.00	0.00	0.00	0.00	0.00	1.42	1.42	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
AVG 20 DEG C RATE			0.40	0.07	0.00	0.00	0.00	0.00	0.00	1.33			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.28	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
318	9.700	21.00	0.12	31.92	276.65	5.74	6.28	0.00	6.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
319	9.600	21.00	0.12	31.92	276.64	5.74	6.29	0.00	6.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
320	9.500	21.00	0.12	31.92	276.64	5.74	6.31	0.00	6.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
321	9.400	21.00	0.12	31.92	276.63	5.74	6.32	0.00	6.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
322	9.300	21.00	0.12	31.93	276.63	5.74	6.33	0.00	6.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
323	9.200	21.00	0.12	31.93	276.63	5.74	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
324	9.100	21.00	0.12	31.93	276.62	5.73	6.35	0.00	6.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
325	9.000	21.00	0.12	31.93	276.62	5.73	6.36	0.00	6.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
326	8.900	21.00	0.12	31.94	276.61	5.73	6.37	0.00	6.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
327	8.800	21.00	0.12	31.94	276.60	5.73	6.38	0.00	6.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
328	8.700	21.00	0.12	31.94	276.60	5.73	6.39	0.00	6.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
329	8.600	21.00	0.12	31.95	276.59	5.73	6.40	0.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
330	8.500	21.00	0.12	31.95	276.58	5.73	6.40	0.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
331	8.400	21.00	0.12	31.96	276.57	5.73	6.41	0.00	6.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
332	8.300	21.00	0.12	31.96	276.56	5.72	6.42	0.00	6.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
333	8.200	21.00	0.12	31.96	276.56	5.72	6.43	0.00	6.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
334	8.100	21.00	0.12	31.97	276.55	5.72	6.43	0.00	6.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
335	8.000	21.00	0.12	31.98	276.53	5.72	6.44	0.00	6.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
336	7.900	21.00	0.12	31.98	276.52	5.72	6.45	0.00	6.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
337	7.800	21.00	0.12	31.99	276.51	5.72	6.45	0.00	6.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
338	7.700	21.00	0.12	32.00	276.50	5.72	6.46	0.00	6.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
339	7.600	21.00	0.12	32.00	276.48	5.72	6.47	0.00	6.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
340	7.500	21.00	0.12	32.01	276.47	5.72	6.47	0.00	6.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
341	7.400	21.00	0.12	32.02	276.45	5.71	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
342	7.300	21.00	0.12	32.03	276.43	5.71	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
343	7.200	21.00	0.12	32.04	276.42	5.71	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
344	7.100	21.00	0.12	32.05	276.40	5.71	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
345	7.000	21.00	0.12	32.06	276.38	5.71	6.50	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
346	6.900	21.00	0.12	32.07	276.35	5.71	6.50	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
347	6.800	21.00	0.12	32.08	276.33	5.71	6.50	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
348	6.700	21.00	0.12	32.10	276.30	5.71	6.51	0.00	6.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
349	6.600	21.00	0.12	32.11	276.27	5.71	6.51	0.00	6.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
350	6.500	21.00	0.12	32.13	276.24	5.71	6.52	0.00	6.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
351	6.400	21.00	0.12	32.15	276.21	5.71	6.52	0.00	6.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
352	6.300	21.00	0.12	32.16	276.18	5.70	6.52	0.00	6.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
353	6.200	21.00	0.12	32.18	276.14	5.70	6.53	0.00	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
354	6.100	21.00	0.12	32.20	276.10	5.70	6.53	0.00	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
355	6.000	21.00	0.12	32.23	276.06	5.70	6.53	0.00	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
356	5.900	21.00	0.12	32.25	276.02	5.70	6.53	0.00	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
357	5.800	21.00	0.11	32.28	275.97	5.70	6.54	0.00	6.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
358	5.700	21.00	0.11	32.30	275.92	5.70	6.54	0.00	6.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
359	5.600	21.00	0.11	32.33	275.86	5.70	6.54	0.00	6.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
360	5.500	21.00	0.11	32.37	275.80	5.70	6.55	0.00	6.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
361	5.400	21.00	0.11	32.40	275.74	5.70	6.55	0.00	6.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
362	5.300	21.00	0.11	32.43	275.67	5.70	6.55	0.00	6.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
363	5.200	21.00	0.11	32.47	275.60	5.70	6.55	0.00	6.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
364	5.100	21.00	0.11	32.52	275.52	5.70	6.55	0.00	6.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
365	5.000	21.00	0.11	32.56	275.44	5.70	6.56	0.00	6.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
366	4.900	21.00	0.11	32.61	275.35	5.70	6.56	0.00	6.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
367	4.800	21.00	0.11	32.66	275.25	5.70	6.56	0.00	6.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
368	4.700	21.00	0.11	32.71	275.15	5.70	6.56	0.00	6.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00

369	4.600	21.00	0.11	32.77	275.04	5.69	6.57	0.00	6.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
370	4.500	21.00	0.11	32.83	274.93	5.69	6.57	0.00	6.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
371	4.400	21.00	0.11	32.90	274.80	5.69	6.57	0.00	6.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
372	4.300	21.00	0.11	32.97	274.67	5.69	6.57	0.00	6.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
373	4.200	21.00	0.11	33.05	274.52	5.69	6.57	0.00	6.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
374	4.100	21.00	0.11	33.13	274.37	5.69	6.58	0.00	6.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
375	4.000	21.00	0.11	33.22	274.20	5.69	6.58	0.00	6.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
376	3.900	21.00	0.11	33.31	274.03	5.69	6.58	0.00	6.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
377	3.800	21.00	0.11	33.42	273.84	5.69	6.58	0.00	6.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
378	3.700	21.00	0.11	33.52	273.64	5.69	6.58	0.00	6.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
379	3.600	21.00	0.11	33.64	273.42	5.69	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
380	3.500	21.00	0.11	33.76	273.19	5.69	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.00
381	3.400	21.00	0.11	33.90	272.94	5.69	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
382	3.300	21.00	0.11	34.04	272.67	5.68	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
383	3.200	21.00	0.11	34.19	272.39	5.68	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
384	3.100	21.00	0.11	34.36	272.08	5.68	6.60	0.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
385	3.000	21.00	0.11	34.53	271.75	5.68	6.60	0.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
386	2.900	21.00	0.11	34.72	271.40	5.68	6.60	0.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.01
387	2.800	21.00	0.11	34.92	271.03	5.68	6.61	0.00	6.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
388	2.700	21.00	0.11	35.13	270.63	5.68	6.61	0.00	6.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
389	2.600	21.00	0.11	35.36	270.20	5.67	6.61	0.00	6.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.02
390	2.500	21.00	0.11	35.61	269.74	5.67	6.62	0.00	6.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
391	2.400	21.00	0.11	35.88	269.24	5.67	6.62	0.00	6.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.03
392	2.300	21.00	0.11	36.16	268.71	5.67	6.63	0.00	6.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
393	2.200	21.00	0.11	36.46	268.15	5.67	6.63	0.00	6.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.04
394	2.100	21.00	0.11	36.79	267.54	5.66	6.64	0.00	6.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.05
395	2.000	21.00	0.11	37.13	266.89	5.66	6.64	0.00	6.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.06
396	1.900	21.00	0.10	37.51	266.20	5.66	6.65	0.00	6.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.07
397	1.800	21.00	0.10	37.90	265.45	5.66	6.66	0.00	6.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.09
398	1.700	21.00	0.10	38.33	264.65	5.66	6.67	0.00	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.11
399	1.600	21.00	0.10	38.79	263.80	5.67	6.67	0.00	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.12
400	1.500	21.00	0.10	39.28	262.88	5.67	6.68	0.00	6.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.15
401	1.400	21.00	0.10	39.80	261.90	5.68	6.70	0.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.18
402	1.300	21.00	0.10	40.37	260.86	5.70	6.71	0.00	6.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.21
403	1.200	21.00	0.10	40.97	259.73	5.71	6.72	0.00	6.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
404	1.100	21.00	0.10	41.61	258.53	5.74	6.74	0.00	6.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
405	1.000	21.00	0.10	42.30	257.24	5.78	6.75	0.00	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.35
406	0.900	21.00	0.10	43.04	255.86	5.82	6.77	0.00	6.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.42
407	0.800	21.00	0.10	43.83	254.38	5.88	6.79	0.00	6.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.49
408	0.700	21.00	0.10	44.68	252.79	5.97	6.82	0.00	6.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
409	0.600	21.00	0.10	45.59	251.10	6.07	6.84	0.00	6.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
410	0.500	21.00	0.10	46.56	249.28	6.21	6.87	0.00	6.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.83
411	0.400	21.00	0.10	47.60	247.34	6.38	6.90	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.98
412	0.300	21.00	0.10	48.72	245.25	6.61	6.94	0.00	6.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
413	0.200	21.00	0.10	49.92	243.02	6.90	6.98	0.00	6.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.39
414	0.100	21.00	0.10	51.20	240.63	7.26	7.02	0.00	7.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.65
415	0.000	21.00	0.10	52.57	238.07	7.73	7.07	0.00	7.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.96

STREAM SUMMARY
Baker Canal East

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
WINTER Projection Meeting DO standard of 5 mg/L

TRAVEL TIME	=	274.64	DAYS		
MAXIMUM EFFLUENT	=	66.67	PERCENT		
FLOW	=	0.02800	TO	0.11200	m^3/s
DISPERSION	=	0.8700	TO	1.8800	m^2/s
VELOCITY	=	0.00080	TO	0.00245	m/s
DEPTH	=	0.94	TO	1.71	m
WIDTH	=	21.94	TO	49.07	m
BOD DECAY	=	0.07	TO	0.10	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	1.42	TO	2.25	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.41	TO	0.75	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	=	21.00	TO	21.00	deg C
DISSOLVED OXYGEN	=	5.35	TO	7.73	mg/L

FINAL REPORT Bayou Verret
REACH NO. 2 Bayou Verret

LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
WINTER Projection Meeting DO standard of 5 mg/L

********** 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
32	HDWTR	0.02800	21.00	0.25	64.90	502.40	7.91	7.81	0.00	7.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78

********** 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
32	3.20	3.10	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
33	3.10	3.00	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
34	3.00	2.90	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
35	2.90	2.80	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
36	2.80	2.70	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
37	2.70	2.60	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
38	2.60	2.50	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
39	2.50	2.40	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
40	2.40	2.30	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
41	2.30	2.20	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
42	2.20	2.10	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
43	2.10	2.00	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002

44	2.00	1.90	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
45	1.90	1.80	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
46	1.80	1.70	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
47	1.70	1.60	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
48	1.60	1.50	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
49	1.50	1.40	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
50	1.40	1.30	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
51	1.30	1.20	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
52	1.20	1.10	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
53	1.10	1.00	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
54	1.00	0.90	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
55	0.90	0.80	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
56	0.80	0.70	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
57	0.70	0.60	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
58	0.60	0.50	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
59	0.50	0.40	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
60	0.40	0.30	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
61	0.30	0.20	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
62	0.20	0.10	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
63	0.10	0.00	0.02800	0.0	0.00160	0.73	0.72	24.38	1755.36	2438.00	17.55	0.00	0.000	0.870	0.002
TOT						23.22			56171.51	78016.00					
AVG					0.00160		0.72	24.38			17.55				
CUM						23.22									

********** 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
32	3.100	8.90	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
33	3.000	8.90	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
34	2.900	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
35	2.800	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
36	2.700	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
37	2.600	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
38	2.500	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
39	2.400	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
40	2.300	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
41	2.200	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
42	2.100	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
43	2.000	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
44	1.900	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
45	1.800	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
46	1.700	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
47	1.600	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
48	1.500	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
49	1.400	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
50	1.300	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
51	1.200	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
52	1.100	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
53	1.000	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
54	0.900	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
55	0.800	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00

56	0.700	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
57	0.600	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
58	0.500	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
59	0.400	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
60	0.300	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
61	0.200	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
62	0.100	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
63	0.000	8.91	0.97	0.09	0.00	0.00	0.00	0.00	0.00	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
AVG 20 DEG C RATE			0.95	0.09	0.00	0.00	0.00	0.00	0.00	2.01			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.11	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
32	3.100	21.00	0.19	64.76	501.56	6.10	5.80	0.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.26
33	3.000	21.00	0.19	64.73	501.40	5.90	5.51	0.00	5.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.18
34	2.900	21.00	0.18	64.70	501.22	5.75	5.23	0.00	5.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.11
35	2.800	21.00	0.18	64.66	501.00	5.64	4.96	0.00	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.04
36	2.700	21.00	0.18	64.62	500.75	5.57	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.98
37	2.600	21.00	0.17	64.57	500.44	5.52	4.47	0.00	4.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.92
38	2.500	21.00	0.17	64.51	500.08	5.48	4.24	0.00	4.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.87
39	2.400	21.00	0.16	64.44	499.66	5.47	4.03	0.00	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.81
40	2.300	21.00	0.16	64.35	499.16	5.46	3.82	0.00	3.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.76
41	2.200	21.00	0.16	64.25	498.56	5.46	3.63	0.00	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
42	2.100	21.00	0.15	64.14	497.86	5.46	3.44	0.00	3.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.68
43	2.000	21.00	0.15	64.00	497.03	5.47	3.27	0.00	3.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.64
44	1.900	21.00	0.15	63.83	496.04	5.48	3.10	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.60
45	1.800	21.00	0.14	63.63	494.87	5.49	2.94	0.00	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.56
46	1.700	21.00	0.14	63.40	493.50	5.51	2.79	0.00	2.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53
47	1.600	21.00	0.13	63.13	491.86	5.52	2.65	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.50
48	1.500	21.00	0.13	62.80	489.93	5.53	2.51	0.00	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.47
49	1.400	21.00	0.13	62.42	487.64	5.55	2.38	0.00	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.44
50	1.300	21.00	0.12	61.96	484.94	5.56	2.26	0.00	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.41
51	1.200	21.00	0.12	61.42	481.74	5.58	2.14	0.00	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
52	1.100	21.00	0.12	60.79	477.95	5.59	2.03	0.00	2.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.37
53	1.000	21.00	0.11	60.03	473.47	5.61	1.92	0.00	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.35
54	0.900	21.00	0.11	59.14	468.16	5.62	1.82	0.00	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
55	0.800	21.00	0.11	58.08	461.88	5.63	1.72	0.00	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.31
56	0.700	21.00	0.10	56.83	454.45	5.64	1.62	0.00	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
57	0.600	21.00	0.10	55.35	445.66	5.65	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.28
58	0.500	21.00	0.09	53.60	435.26	5.66	1.43	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.27
59	0.400	21.00	0.09	51.53	422.95	5.67	1.34	0.00	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.26
60	0.300	21.00	0.09	49.08	408.38	5.68	1.25	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
61	0.200	21.00	0.08	46.18	391.15	5.68	1.16	0.00	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
62	0.100	21.00	0.08	42.75	370.75	5.67	1.07	0.00	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24
63	0.000	21.00	0.08	38.68	346.61	5.66	0.97	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.24

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TRAVEL TIME       =          23.22 DAYS

MAXIMUM EFFLUENT  =           0.00 PERCENT

FLOW              =   0.02800 TO    0.02800   m³/s
DISPERSION        =   0.8700  TO    0.8700    m²/s
VELOCITY          =   0.00160 TO    0.00160   m/s
DEPTH             =   0.72    TO    0.72      m
WIDTH             =  24.38    TO   24.38      m

BOD DECAY         =    0.09   TO    0.09      per day
NH3 DECAY         =    0.00   TO    0.00      per day
SOD               =    2.14   TO    2.14      g/m²/d
NH3 SOURCE        =    0.00   TO    0.00      g/m²/d
REAERATION        =    0.97   TO    0.97      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       =   21.00   TO   21.00      deg C
DISSOLVED OXYGEN  =    5.46   TO    6.10      mg/L
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LA-QUAL model for Bayou Chevreuil System TMDL (subsegment 020101
WINTER Projection Meeting DO standard of 5 mg/L

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	0.056	38.2	31.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5
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	0.084	57.4	47.6	0.0	0.0	0.0	0.0	0.0	0.0	18.8
WITHDRAWLS	-0.028	-14.0	-1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OUTFLOW THRU LOWER BNDRY	-0.112	-74.8	-68.4	0.0	0.0	0.0	0.0	0.0	0.0	-18.9
DISPERSION THRU LOWER BNDRY		79.8	7.5	0.0	0.0	0.0	0.0	0.0	0.0	50.1
NON-POINT INPUT		0.0	652.0	0.0	0.0					0.0
NATURAL REAERATION		3169.5								
DAM REAERATION		0.0								
BACKGROUND SOD		-2524.1								
BOD#1 DECAY		-668.3	-668.3							
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		0.0				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		-64.4								-64.4
NCM SETTLING		0.0								0.0
TOTAL INPUTS	0.140	3345.0	738.1	0.0	0.0	0.0	0.0	0.0	0.0	83.3
TOTAL OUTPUTS	-0.140	-3345.6	-738.1	0.0	0.0	0.0	0.0	0.0	0.0	-83.3
NET CONVERGENCE ERROR	0.000	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

.....EXECUTION COMPLETED