APPENDIX A1

Maps

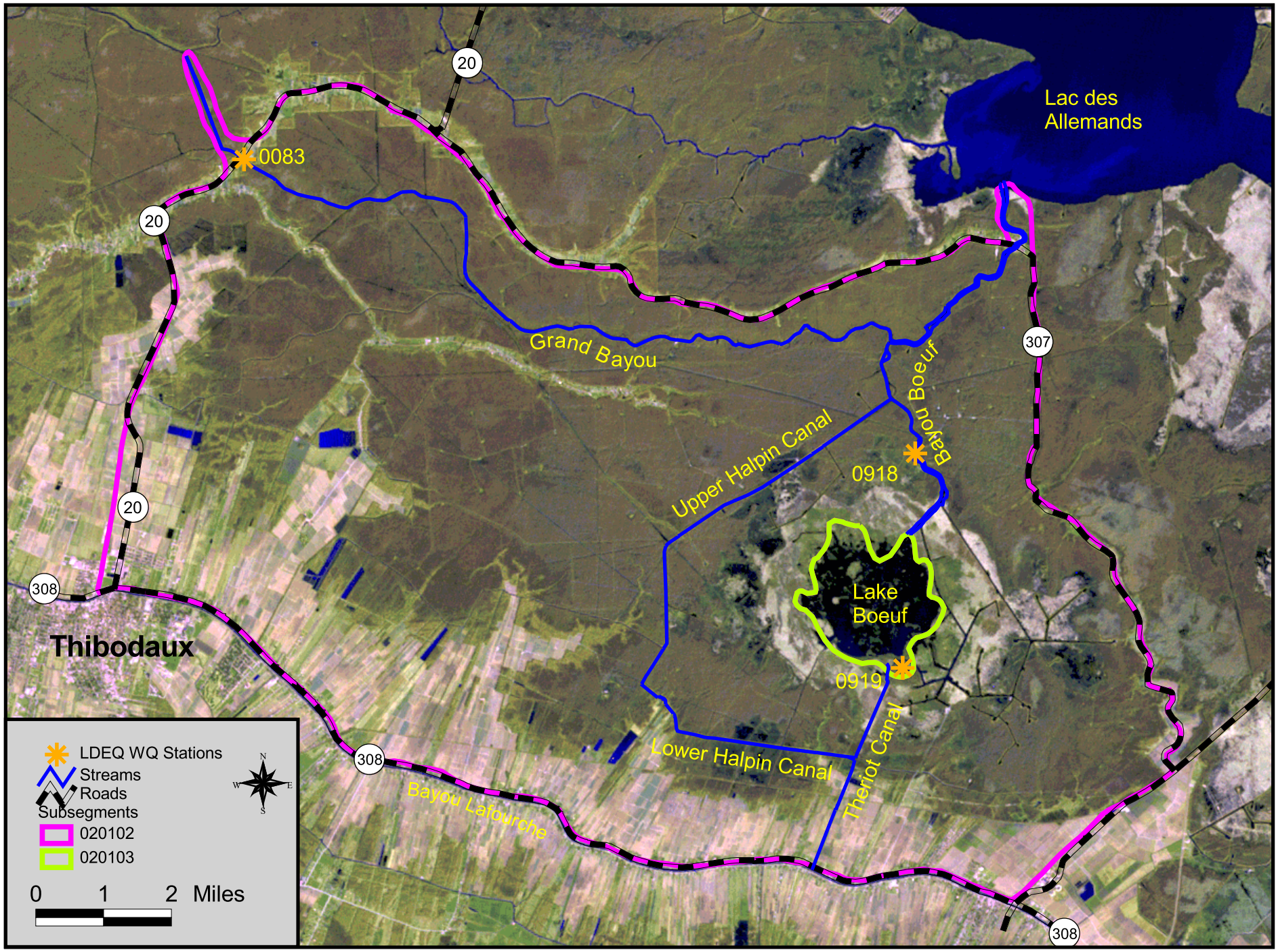


Figure A1.1. Watershed map for subsegments 020102 and 020103.

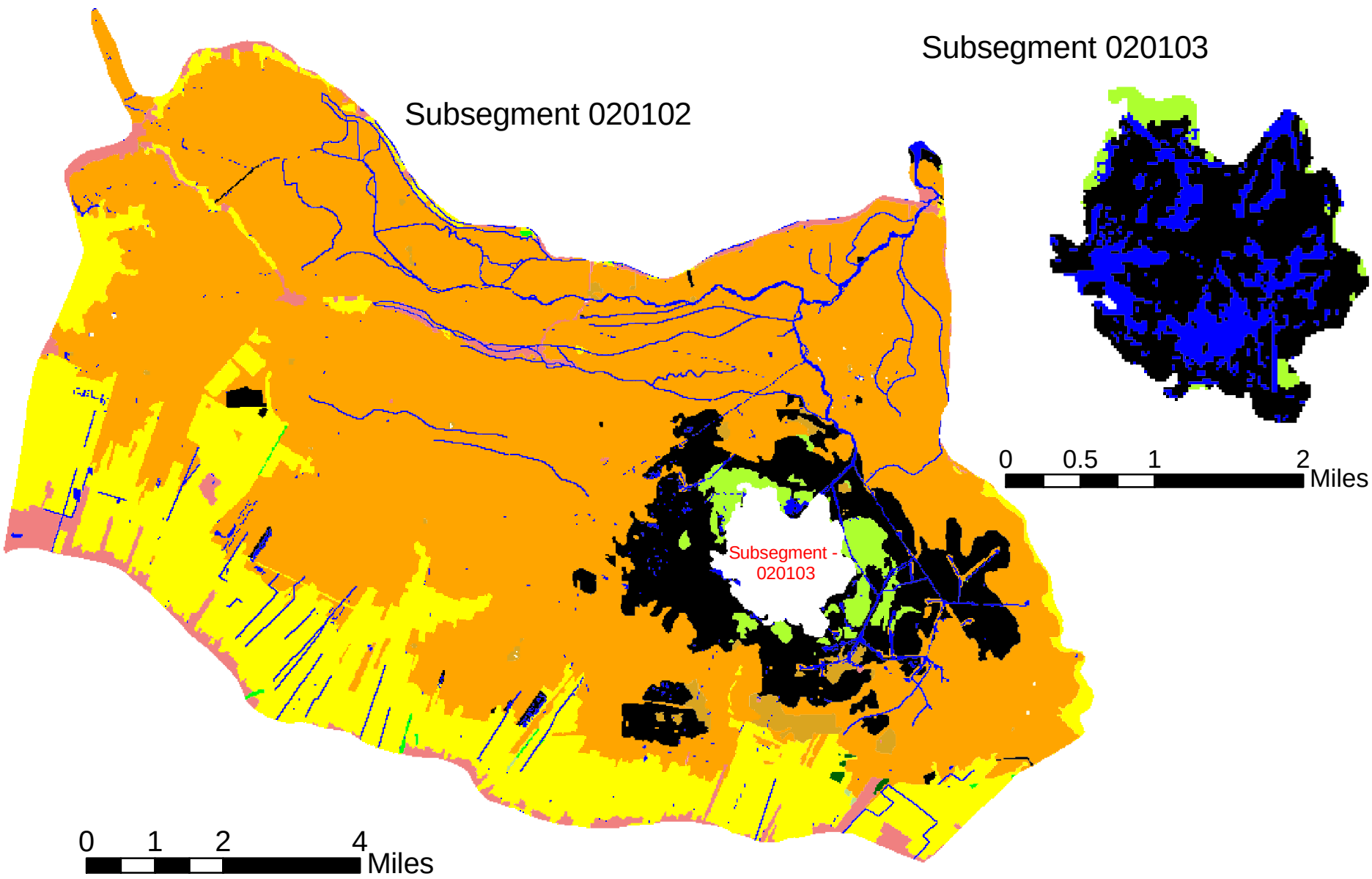
LDEQ BASIN SUBSEGMENT 020102 and 020103

USGS Louisisna GAP Land Cover

BARATARIA BASIN

Map Date: 1/06/04
Map number: 200401001
Map sources: LDEQ basin-subsegment data,
USGS Louisiana GAP Data
Map projection: UTM Zone 15; NAD83

Louisiana Department of Environmental Quality
LDEQ
GIS Center



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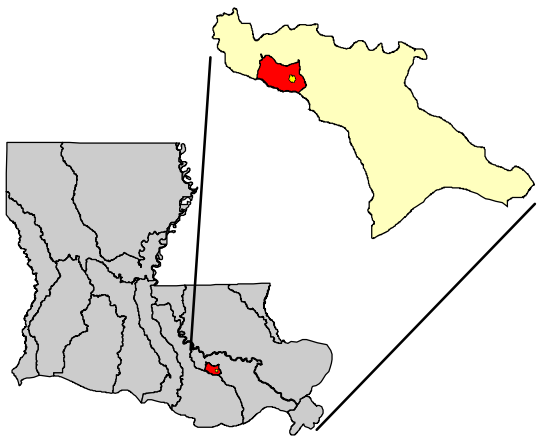

Legend

- 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.

APPENDIX A2

Point Source Information

Table A2.1. Information for point source discharges in subsegment 020102 and 020103.

File Number	Company	Facility	Facility Type	Location	Receiving Water	Expected flow (MGD)	BOD5 (mg/L)	modeling comments
LAG530824	LA DOTD	KRAEMER BRIDGE	BRIDGE HOUSE	KRAEMER ACROSS BAYOU BOEUF ON LA 307	BAYOU BOEUF	0.0025	45 mg/L weekly	Included in model and TMDL
LAG560186	LAFOURCHE PAR COUNCIL	LEWISTOWN COMM STP;WMS ST-PHASE III	"STP 45,000 GPD"	"RACELAND, ON LA 308-WILLIAMS ST"	FORTY ARPENT CANAL	0.05	20 mg/L monthly, 30 mg/L weekly	Not in model but included in TMDL
LAG530320	LAFOURCHE PAR SCH BD	BOEUF ELEM SCH	PUBLIC SCH	THIBODAUX 1710 HWY 307		0.005	45 mg/L weekly	Included in model and TMDL
LAG570090	LAFOURCHE PH COUNCIL SO CENTRAL P&D	LEWISTOWN COMM SEW PROJ	STP	LEWISTOWN TRIPPLE OAK STREET	PARISH PUMP CANAL - 40 ARPENT CANAL	0.1	10 mg/L monthly, 15 mg/L weekly	Not in model but included in TMDL
LAG560205	PELTIER DEVELOPMEN T CO LLC	EAST CITY SUBDIVISION		"THIBODAUX, 461 HWY 308"		0.05	20 mg/l daily 30 mg/l weekly	Not in model but included in TMDL
LAG530625	BELLSOUTH	BELLSOUTH CHACKBAY J3337	TELEPHONE & EQUIP INSTALLATION	CHACKBAY LA HWY 20	GRAND BAYOU (via an unnamed tributary)	0.0005	45 BOD5	Not in model but included in TMDL
LAG110097	THIBODAUX LUMBER & CONCRETE CO		RETAIL LUMBER & CONCRETE	"THIBODAUX, 900 ST PATRICK HWY"	40 ARPENT CANAL	stormwater		Assumed to have negligible oxygen demand

File Number	Company	Facility	Facility Type	Location	Receiving Water	Expected flow (MGD)	BOD5 (mg/L)	modeling comments
LAG560077	THOROUGHBRED PARK SVC CORP	HALF OAK SUBD	3-CELL O.P.	"THIBODAUX, LA 308 1.5 MI S OF CANAL BLVD"	40 ARPENT CANAL-B LAFOURCHE	0.05	20 mg/l, 30 mg/l	Not in model but included in TMDL
LAG540736	THOROUGHBRED PARK SERVICE CORP	BEAU CHENE SUBD	"24,000 GPD 2-CELL O.P."	"THIBODAUX,1 M S OF CANAL BLVD ON HWY 308"	40 ARPENT CANAL-B LAFOURCHE	0.025	30 mg/l, 45 mg/l	Not in model but included in TMDL

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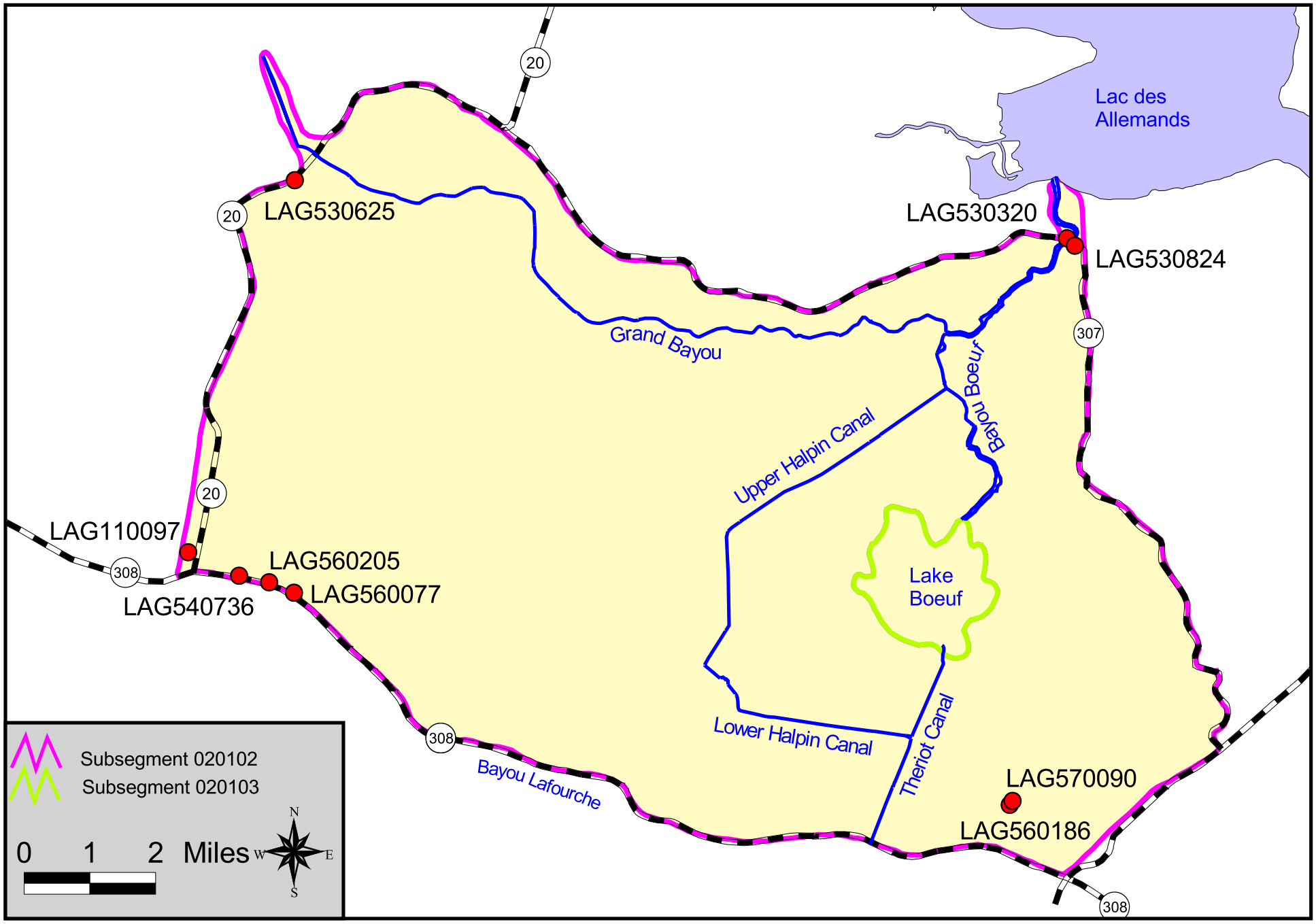

Figure A2.1. Point source discharge map for subsegments 020102 and 020103.

APPENDIX B

Historical Water Quality Data

Table B1. Water Quality Measurements for LDEQ Station 0083.

DATE	TIME	D.O. (mg/l)	Meets Standards
5/12/98	858	1.50	NO
3/10/98	856	2.50	NO
1/13/98	1047	5.00	YES
11/18/97	1022	4.50	NO
9/9/97	1035	2.80	NO
7/15/97	1058	1.80	NO
5/13/97	1027	1.70	NO
3/11/97	1020	1.60	NO
1/7/97	1015	0.50	NO
11/19/96	1032	3.10	NO
9/10/96	1035	2.50	NO
7/9/96	1055	3.30	NO
5/14/96	1010	2.60	NO
3/12/96	1100	9.30	YES
1/9/96	1010	7.29	YES
11/14/95	1028	3.54	NO
9/12/95	930	3.50	NO
7/11/95	830	2.51	NO
3/14/95	1110	5.70	YES
1/10/95	850	4.60	NO
11/15/94	910	2.40	NO
9/13/94	920	2.80	NO
7/12/94	945	2.00	NO
5/10/94	920	1.40	NO
3/15/94	920	3.40	NO
1/11/94	910	5.90	YES
11/16/93	1040	2.50	NO
9/14/93	910	2.65	NO
7/13/93	835	1.14	NO
5/11/93	840	1.80	NO
3/9/93	1012	2.80	NO
1/12/93	1028	1.10	NO
11/17/92	830	1.70	NO
9/15/92	820	0.10	NO
7/14/92	1055	2.30	NO
5/12/92	810	5.20	YES
3/10/92	1025	1.35	NO
1/7/92	1114	4.20	NO
11/19/91	1136	3.10	NO
9/10/91	1050	1.30	NO
7/16/91	940	0.40	NO
5/14/91	1045	2.40	NO
3/12/91	1110	3.00	NO
1/15/91	1030	4.40	NO
12/11/90	1135	3.60	NO
11/14/90	1015	6.10	YES

DATE	TIME	D.O. (mg/l)	Meets Standards
10/16/90	1000	3.90	NO
9/11/90	1015	2.10	NO
8/14/90	1015	3.50	NO
7/10/90	1035	2.60	NO
6/12/90	1020	2.60	NO
5/15/90	925	1.80	NO
4/10/90	940	1.20	NO
3/13/90	1025	1.60	NO
2/13/90	1010	3.60	NO
1/9/90	1015	0.50	NO
12/12/89	1130	3.10	NO
11/14/89	1000	1.00	NO
10/9/89	855	2.60	NO
9/12/89	920	1.30	NO
8/15/89	925	1.30	NO
7/11/89	900	0.50	NO
6/13/89	850	1.30	NO
5/9/89	825	1.40	NO
4/11/89	910	1.80	NO
3/14/89	1103	4.50	NO
1/9/89	1020	0.70	NO
12/12/88	1020	2.80	NO
11/14/88	1015	0.40	NO
10/10/88	1035	1.40	NO
9/12/88	1030	1.90	NO
8/8/88	1025	2.30	NO
7/12/88	1006	2.90	NO
6/14/88	920	2.70	NO
5/10/88	909	0.90	NO
4/12/88	857	1.10	NO
3/14/88	1125	2.00	NO
2/8/88	1125	3.90	NO
1/11/88	1115	7.00	YES
12/14/87	1115	3.30	NO
11/17/87	1025	5.10	YES
10/13/87	1100	.	
9/14/87	1130	1.90	NO
8/10/87	1125	2.40	NO
7/13/87	1125	0.70	NO
6/8/87	1145	1.20	NO
5/11/87	1120	2.00	NO
4/13/87	1120	1.50	NO
3/9/87	1120	2.60	NO
2/16/87	1120	1.70	NO
1/12/87	1100	2.70	NO
12/8/86	1120	1.80	NO
11/17/86	1115	1.70	NO
10/13/86	1105	1.40	NO

DATE	TIME	D.O. (mg/l)	Meets Standards
9/8/86	1115	1.70	NO
8/11/86	1110	2.60	NO
7/14/86	1110	2.60	NO
6/9/86	1120	1.50	NO
5/12/86	1115	2.40	NO
4/14/86	1125	2.80	NO
3/17/86	1110	2.50	NO
2/17/86	1120	3.70	NO
1/13/86	1130	4.50	NO
12/9/85	1125	1.40	NO
11/18/85	1115	0.20	NO
10/14/85	1110	2.70	NO
9/9/85	1140	1.50	NO
8/12/85	1055	1.50	NO
7/8/85	1115	3.80	NO
6/10/85	1115	3.40	NO
5/13/85	1105	2.30	NO
4/8/85	1220	1.60	NO
3/11/85	1100	1.10	NO
2/11/85	1135	5.80	YES
1/14/85	1115	6.50	YES
12/10/84	1105	1.80	NO
11/13/84	1100	2.20	NO
10/8/84	1210	1.90	NO
9/10/84	1110	1.50	NO
8/13/84	1055	0.70	NO
7/9/84	1100	1.10	NO
6/11/84	1000	2.00	NO
5/14/84	1040	3.80	NO
4/9/84	1030	2.20	NO
3/12/84	1015	2.60	NO
2/13/84	1115	3.60	NO
1/9/84	1100	1.70	NO
12/12/83	1105	0.10	NO
11/14/83	1030	1.70	NO
10/10/83	1125	1.50	NO
9/12/83	1020	0.30	NO
8/8/83	1100	1.00	NO
7/11/83	1000	0.40	NO
6/13/83	1105	1.70	NO
5/9/83	1115	0.20	NO
4/11/83	1115	1.00	NO
3/14/83	1100	1.90	NO
2/7/83	1130	3.40	NO
1/10/83	1105	1.50	NO
12/13/82	1135	0.80	NO
11/16/82	1045	3.70	NO
10/11/82	1100	.	

DATE	TIME	D.O. (mg/l)	Meets Standards
9/13/82	1135	0.90	NO
8/9/82	1130	1.20	NO
7/12/82	1120	1.10	NO
6/14/82	1205	0.20	NO
5/10/82	1130	0.70	NO
4/12/82	1200	1.50	NO
3/8/82	1145	2.40	NO
2/8/82	1130	3.00	NO
1/11/82	1120	4.30	NO
12/14/81	1045	4.60	NO
11/16/81	1115	3.70	NO
10/12/81	1130	2.30	NO
9/14/81	1055	0.80	NO
8/10/81	1045	1.40	NO
7/13/81	1040	0.50	NO
6/8/81	1045	0.90	NO
5/11/81	1445	3.50	NO
4/13/81	1000	2.40	NO
3/9/81	1215	1.00	NO
2/9/81	1045	4.60	NO
1/12/81	1125	5.50	YES
12/10/80	800	1.50	NO
11/19/80	800	1.60	NO
10/15/80	820	2.40	NO
9/16/80	836	0.00	NO
8/13/80	828	1.30	NO
6/10/80	802	0.90	NO
5/14/80	745	0.60	NO
4/16/80	750	1.50	NO
3/12/80	800	1.10	NO
2/13/80	810	4.50	NO
1/16/80	740	1.00	NO
12/12/79	815	1.70	NO
11/7/79	815	3.70	NO
10/10/79	805	1.90	NO
9/12/79	830	0.00	NO
8/15/79	825	0.50	NO
7/11/79	821	2.30	NO
6/13/79	756	0.50	NO
5/16/79	748	0.20	NO
4/18/79	740	0.00	NO
3/14/79	935	2.00	NO
2/14/79	921	4.50	NO
1/10/79	945	4.20	NO
12/13/78	928	1.40	NO
11/15/78	940	1.30	NO
10/11/78	838	1.30	NO
9/13/78	807	0.50	NO

DATE	TIME	D.O. (mg/l)	Meets Standards
8/16/78	738	1.60	NO
7/12/78	704	0.40	NO
6/14/78	708	0.80	NO
5/10/78	655	0.90	NO
4/12/78	725	2.50	NO
3/6/78	935	4.00	NO
1/4/78	0	3.50	NO
12/9/77	0	1.00	NO
11/10/77	0	0.10	NO
10/10/77	0	.	
8/10/77	0	2.50	NO
7/8/77	0	7.90	YES
6/7/77	0	1.40	NO
5/9/77	0	0.40	NO
4/9/77	0	2.40	NO
3/8/77	0	1.00	NO
2/9/77	0	4.30	NO
1/4/77	0	2.90	NO
12/10/76	0	1.20	NO
11/5/76	0	1.00	NO
10/4/76	0	3.90	NO
9/9/76	0	0.80	NO
8/6/76	0	3.30	NO
7/6/76	0	2.10	NO
6/7/76	0	2.10	NO
4/6/76	0	0.70	NO
3/10/76	0	2.70	NO
2/11/76	0	4.40	NO
1/8/76	0	5.00	YES
12/9/75	0	3.80	NO
11/12/75	0	0.10	NO
10/1/75	0	0.80	NO
9/1/75	0	2.00	NO
8/11/75	0	.	
7/8/75	0	0.10	NO
6/9/75	0	0.70	NO
5/8/75	0	2.10	NO
4/1/75	0	1.40	NO
3/5/75	0	5.90	YES
2/4/75	0	0.90	NO
1/9/75	0	1.80	NO
12/1/74	0	2.40	NO
11/1/74	0	2.10	NO
10/1/74	0	1.70	NO
9/1/74	0	0.40	NO
8/1/74	0	1.40	NO
7/1/74	0	2.10	NO
6/1/74	0	2.00	NO

DATE	TIME	D.O. (mg/l)	Meets Standards
5/1/74	0	0.40	NO
4/1/74	0	0.30	NO
3/1/74	0	0.80	NO
2/1/74	0	2.30	NO
1/1/74	0	0.60	NO
12/1/73	0	2.30	NO
11/1/73	0	0.20	NO
10/1/73	0	0.10	NO
9/1/73	0	3.50	NO
8/1/73	0	1.00	NO
7/1/73	0	1.90	NO
6/1/73	0	0.70	NO
5/1/73	0	0.20	NO
4/1/73	0	3.30	NO
3/1/73	0	0.10	NO
2/1/73	0	3.00	NO
1/1/73	0	0.30	NO
11/1/72	0	.	
10/1/72	0	0.50	NO
9/1/72	0	3.30	NO
8/1/72	0	7.80	YES
7/1/72	0	2.00	NO
6/1/72	0	1.40	NO
5/1/72	0	3.00	NO
4/1/72	0	6.30	YES
3/1/72	0	2.10	NO
2/1/72	0	3.80	NO
1/1/72	0	2.10	NO
12/1/71	0	0.30	NO
11/1/71	0	0.50	NO
10/1/71	0	.	
9/1/71	0	1.60	NO
8/1/71	0	.	
7/1/71	0	1.00	NO
6/1/71	0	3.50	NO
5/1/71	0	3.40	NO
3/1/71	0	3.00	NO
2/1/71	0	4.50	NO
1/1/71	0	3.20	NO
11/1/70	0	0.20	NO
10/1/70	0	.	
8/1/70	0	3.70	NO
5/1/70	0	4.80	NO
3/1/70	0	1.20	NO
9/1/69	0	3.60	NO
7/1/69	0	1.80	NO
6/1/69	0	1.00	NO
5/1/69	0	0.30	NO

DATE	TIME	D.O. (mg/l)	Meets Standards
4/1/69	0	3.30	NO
3/1/69	0	3.80	NO
12/1/68	0	1.90	NO
11/1/68	0	4.50	NO
10/1/68	0	3.90	NO
9/1/68	0	5.80	YES
8/1/68	0	3.10	NO
7/1/68	0	4.00	NO
6/1/68	0	4.40	NO
5/1/68	0	1.80	NO
4/1/68	0	4.00	NO
3/1/68	0	4.10	NO
2/1/68	0	2.80	NO
1/1/68	0	3.80	NO
12/1/67	0	.	
11/1/67	0	1.00	NO
10/1/67	0	3.70	NO
9/1/67	0	1.80	NO
8/1/67	0	4.40	NO
7/1/67	0	5.70	YES
6/1/67	0	4.30	NO
5/1/67	0	6.00	YES
4/1/67	0	3.40	NO
3/1/67	0	5.70	YES
2/1/67	0	5.80	YES
1/1/67	0	4.30	NO
12/1/66	0	1.30	NO
11/1/66	0	2.10	NO
10/1/66	0	2.80	NO
9/1/66	0	4.50	NO
8/1/66	0	2.60	NO
7/1/66	0	2.20	NO
6/1/66	0	2.00	NO
5/1/66	0	2.00	NO
4/1/66	0	1.30	NO
3/1/66	0	5.00	YES
2/1/66	0	5.00	YES
1/1/66	0	3.00	NO
12/1/65	0	2.50	NO
11/1/65	0	3.60	NO
10/1/65	0	.	
9/1/65	0	3.00	NO
8/1/65	0	2.40	NO
7/1/65	0	.	
6/1/65	0	2.80	NO
5/1/65	0	2.00	NO
4/1/65	0	1.40	NO
3/1/65	0	1.20	NO

DATE	TIME	D.O. (mg/l)	Meets Standards
2/1/65	0	1.80	NO
1/1/65	0	1.40	NO
12/1/64	0	1.60	NO
11/1/64	0	0.60	NO
10/1/64	0	1.40	NO
9/1/64	0	1.40	NO
8/1/64	0	1.60	NO
7/1/64	0	1.20	NO
6/1/64	0	1.60	NO
5/1/64	0	2.20	NO
4/1/64	0	1.00	NO
3/1/64	0	2.80	NO
2/1/64	0	1.40	NO
1/1/64	0	1.00	NO
12/1/63	0	0.60	NO
11/1/63	0	1.80	NO
10/1/63	0	1.40	NO
9/1/63	0	1.00	NO
8/1/63	0	1.80	NO
7/1/63	0	8.00	YES
6/1/63	0	4.00	NO
5/1/63	0	3.40	NO
4/1/63	0	3.40	NO
3/1/63	0	3.60	NO
2/1/63	0	4.40	NO
1/1/63	0	1.60	NO
12/1/62	0	0.40	NO
11/1/62	0	3.00	NO
10/1/62	0	2.20	NO
9/1/62	0	3.00	NO
8/1/62	0	4.00	NO
7/1/62	0	2.00	NO
6/1/62	0	3.00	NO
5/1/62	0	2.20	NO
4/1/62	0	4.00	NO
3/1/62	0	2.00	NO
2/1/62	0	2.60	NO
1/1/62	0	3.80	NO
12/1/61	0	1.40	NO
11/1/61	0	4.00	NO
10/1/61	0	0.80	NO
9/1/61	0	3.00	NO
8/1/61	0	3.40	NO
7/1/61	0	2.60	NO
6/1/61	0	8.00	YES
5/1/61	0	2.00	NO
4/1/61	0	1.60	NO
3/1/61	0	2.00	NO

DATE	TIME	D.O. (mg/l)	Meets Standards
2/1/61	0	5.20	YES
1/1/61	0	2.40	NO
12/1/60	0	1.60	NO
11/1/60	0	5.80	YES
10/1/60	0	3.80	NO
9/1/60	0	3.60	NO
8/1/60	0	5.00	YES
7/1/60	0	5.00	YES
6/1/60	0	3.80	NO
5/1/60	0	2.00	NO
4/1/60	0	4.00	NO
3/1/60	0	3.00	NO
2/1/60	0	2.60	NO
10/1/59	0	4.40	NO
9/1/59	0	4.40	NO
8/1/59	0	2.00	NO
7/1/59	0	1.00	NO
6/1/59	0	3.40	NO
5/1/59	0	3.80	NO
4/1/59	0	2.90	NO
3/1/59	0	3.20	NO
2/1/59	0	3.00	NO
10/1/58	0	2.40	NO
9/1/58	0	2.60	NO
8/1/58	0	3.20	NO
7/1/58	0	4.40	NO
6/1/58	0	10.80	YES

FILE: R:\PROJECTS\3110-051\BEOUF PDF\BAYOU THERIOT ET AL WQ.XLS

Table B2. Water Quality Measurements for LDEQ Station 0918.

DATE	TIME	D.O. (mg/l)	Meets Standards
12/13/00	855	1.41	NO
11/8/00	941	5.91	YES
10/11/00	941	3.33	NO
9/13/00	950	4.70	NO
8/16/00	937	3.30	NO
7/19/00	945	1.11	NO
6/21/00	921	3.93	NO
5/17/00	936	0.50	NO
4/18/00	942	3.52	NO
3/22/00	915	2.90	NO
2/16/00	930	9.92	YES
1/19/00	911	5.00	YES

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Table B3. Water Quality Measurements for LDEQ Station 0919.

DATE	TIME	D.O. (mg/l)	Meets Standards
12/13/00	915	5.56	YES
11/8/00	925	4.14	NO
10/11/00	1000	4.20	NO
9/13/00	935	3.30	NO
8/16/00	925	1.80	NO
7/19/00	930	2.71	NO
6/21/00	902	1.64	NO
5/17/00	916	1.20	NO
4/18/00	925	2.46	NO
3/22/00	855	2.00	NO
2/16/00	911	6.75	YES
1/19/00	855	3.40	NO

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APPENDIX C1

Field Data Collection Sites

FIELD DATA COLLECTION SITES FOR SUBSEGMENTS 020102 and 020103
(Theriot and Halpin Canals, Lake Boeuf, Grand Bayou, and Bayou Boeuf)

Station Name	Station Location	Purpose for Modeling	Data that were collected:			
			In Situ	Lab	Velocity or Flow	Contin.
GB-1	Grand Bayou about 1 mile south of Bayou Citamon	Headwater	X	X	X	SQ
BO-1	Bayou Onion about 0.5 miles west of Grand Bayou	Tributary	X	X	X	SQ
GB-2	Grand Bayou near Hwy 20 (near LDEQ station 0083)	Calibration target (and compare with historical data)	X	X	X	
GB-3	Grand Bayou about 2.2 miles east of Hwy 20	Calibration target	X			
GB-4	Grand Bayou about 4.4 miles east of Hwy 20	Calibration target	X	X	X	SQ
LPC-1	LaPeans Canal about 0.7 miles SW of Grand Bayou (at bridge on local road)	Tributary	X	X	X	SQ
GB-5	Grand Bayou about 5.2 miles west of Bayou Boeuf	Calibration target	X			
GB-6	Grand Bayou about 3.0 miles west of Bayou Boeuf	Calibration target	X	X	X	Q
GB-7	Grand Bayou about 0.8 miles west of Bayou Boeuf	Calibration target	X			
HC-1	Lower Halpin Canal at Ariel Plantation Road SW of Lake Boeuf	Calibration target	X	X	X	
HC-2	Lower Halpin Canal about 3.5 miles north of HC-1	Calibration target	X	X	X	Q
HC-3	Upper Halpin Canal about 1.5 miles southwest of Bayou Boeuf	Calibration target	X			
TC-1	Theriot Canal on south side of control structure near Hwy 308	Headwater	X	X	X	SQ
TC-2	Theriot Canal about 1.5 miles north of TC-1	Calibration target	X	X	X	
TC-3	Theriot Canal just S of Lake Boeuf (at northern end of well defined channel)	Flow measurement			X	
LB-1	Lake Boeuf at south end (near LDEQ station 0919)	Calibration target (and compare with historical data)	X	X		Q
LB-2	Lake Boeuf between the middle and the north end	Calibration target	X	X		
BoC-1	Bowie Canal about 0.5 miles southeast of Bayou Boeuf	Tributary	X	X	X	SQ
BBf-1	Bayou Boeuf between Bowie Canal and Halpin Canal (at LDEQ station 0918)	Calibration target (and compare with historical data)	X	X	X	Q
BBf-2	Bayou Boeuf halfway between Halpin Canal and Grand Bayou	Calibration target	X			
BBf-3	Bayou Boeuf about 2.5 miles south of Lac Des Allemands	Calibration target	X	X	X	Q
BBf-4	Bayou Boeuf about 1 mile south of Lac Des Allemands	Calibration target	X			
BBf-5	Bayou Boeuf at mouth (entrance to Lac Des Allemands)	Boundary for hydraulic model				SQ
LDA-1	Lac Des Allemands about 0.5 miles north of mouth of Bayou Boeuf (at LDEQ station 0920)	D.S. boundary (and compare with historical data)	X	X		Q

S = stage (water level) data form monitor at fixed elevation
Q = water quality data (temperature, DO, pH, conductivity)

Sample_Sites

- Elevation
- In-situ/lab
- In-situ/lab/flow
- In-situ/lab/flow/monitor
- In-situ/lab/flow/monitor/elev
- Insitu/lab/monitor
- flow
- in-situ

Assessment_Sites

- Meeting DO standard
- Not meeting DO standard

BARATARIA BASIN SUBSEGMENTS 020101, 020102, 020103 - BOEUF 1

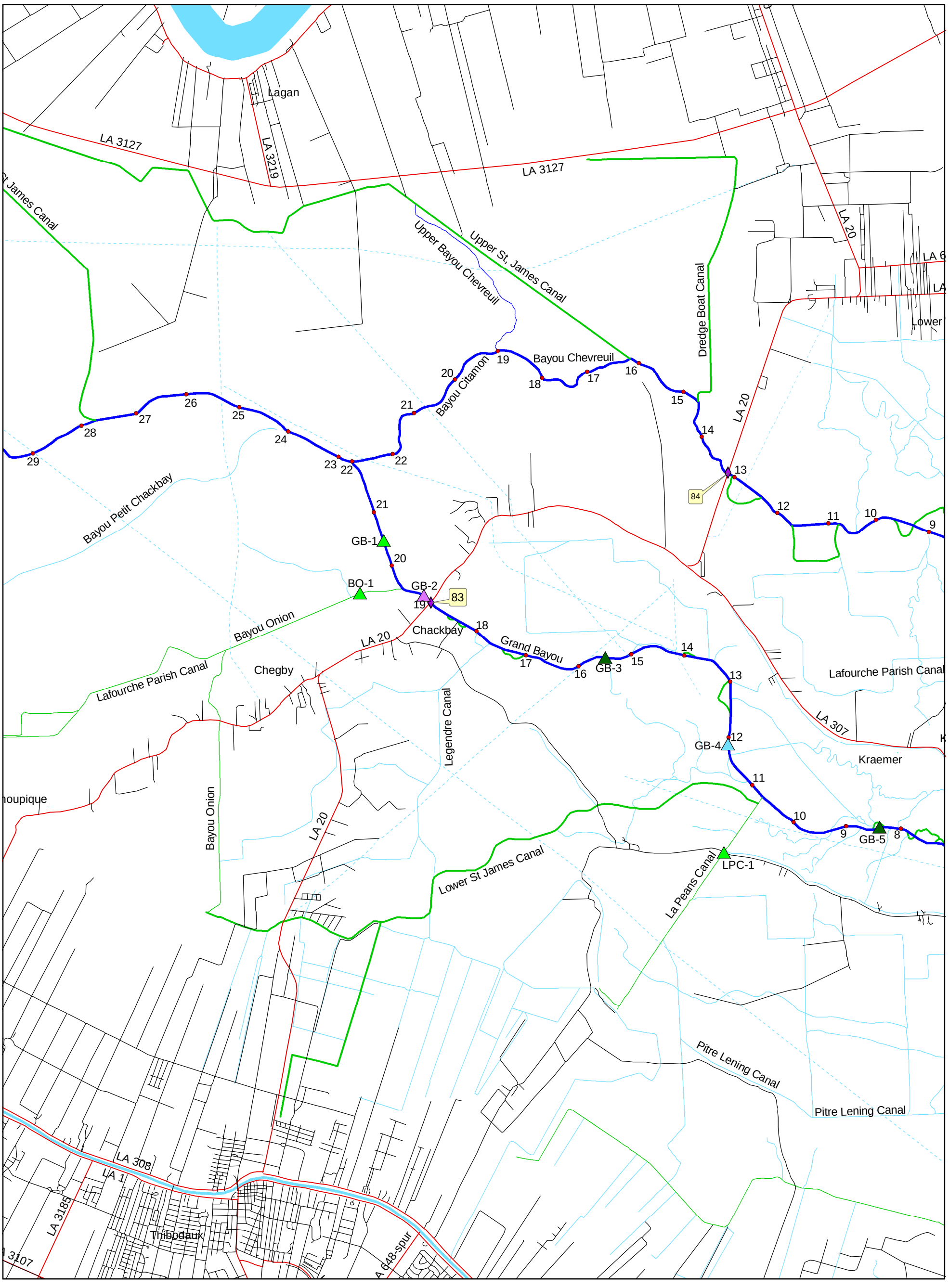
Environmental Technology Division
Engineering Group 2
Map Number: 200203023
Map Date: 12-19-02
Map Projection: UTM Zone 15, NAD83
Map Source: Digitized from USGS 7.5' topo maps

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

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

1 0.5 0 1 2 3 4 5 Kilometers

N



Sample_Sites

- Elevation
- In-situ/lab
- In-situ/lab/flow
- In-situ/lab/flow/monitor
- In-situ/lab/flow/monitor/elev
- Insitu/lab/monitor
- flow
- in-situ

Assessment_Sites

- Meeting DO standard
- Not meeting DO standard

BARATARIA BASIN SUBSEGMENTS 020101, 020102, 020103 - BOEUF 2

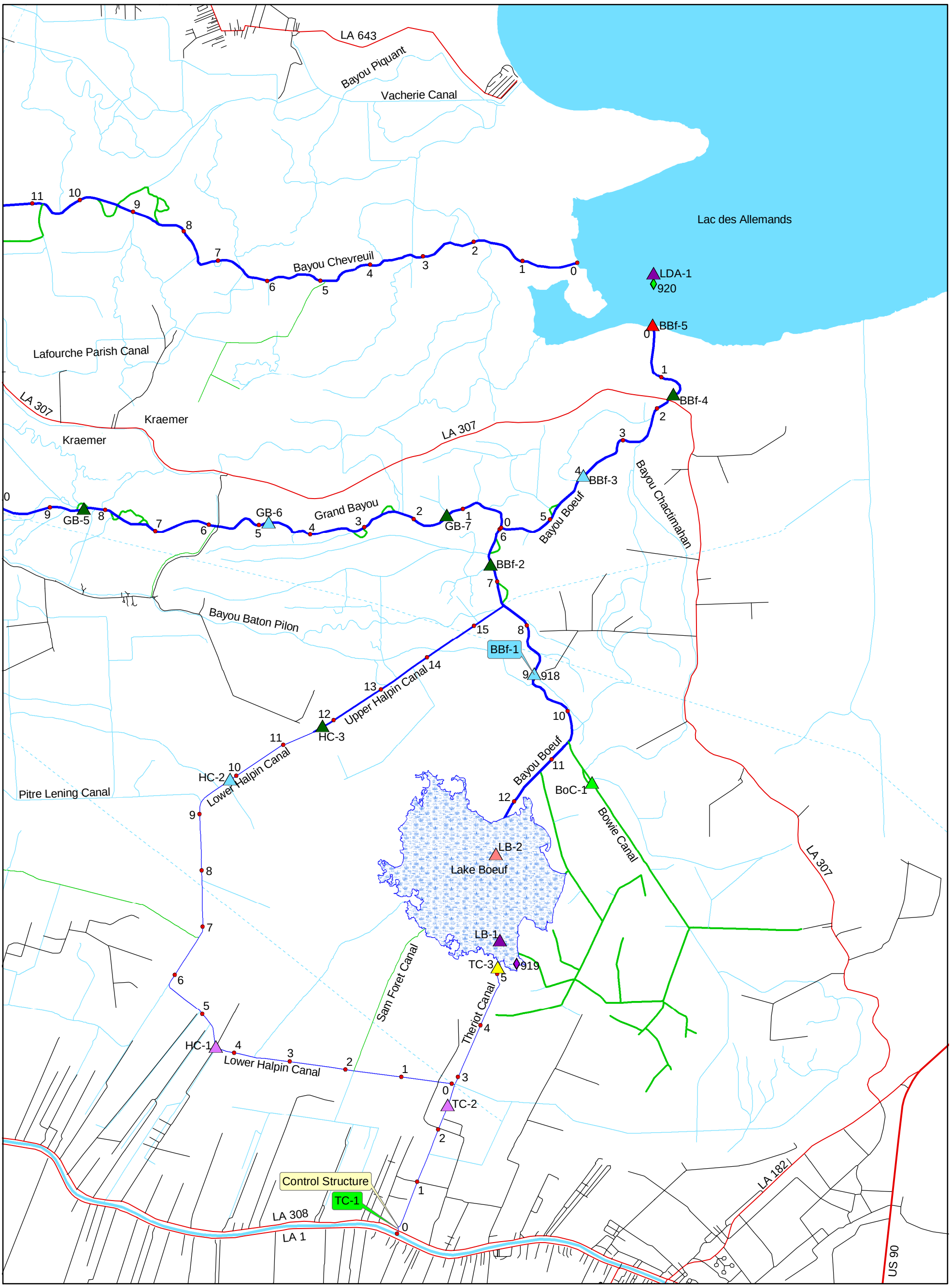
Environmental Technology Division
Engineering Group 2
Map Number: 200203023
Map Date: 12-19-02
Map Projection: UTM Zone 15, NAD83
Map Source: Digitized from USGS 7.5' topo maps

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

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 Boeuf System (020102,020103).

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)
GB-1	TRG	6/18/03	9:50	0.5	26.31	2.48	30.7	165.2	0.07	6.61	0.8	154	12.1		0.24	0.31	1.69	1.45	11.9
BO-1	TRG	6/18/03	9:00	0.2	26.30	1.41	17.3	211.3	0.10	6.81	1.0	160	19.4		0.26	0.38	1.71	0.88	13.6
GB-2	TRG	6/18/03	10:20	0.3	26.56	1.96	24.5	182.0	0.08	6.67	0.8	161	14.0	16	0.24	0.38	1.63	1.44	13.6
GB-3		6/18/03	10:50	1.0	27.37	2.43	30.8	189.9	0.09	6.88									
GB-4	TRG	6/18/03	930	1.0	27.06	2.37	29.8	184.8	0.08	6.88		156	14.5		0.24	0.39	1.65	1.63	13.9
GB-4	FD											160	15.1		0.25	0.41	1.72	1.66	13.1
LPC-1	TRG	6/18/03	8:40	1.0	26.30	1.09	13.9	204.7	0.09	6.70		142	24.3		0.28	0.17	1.04	0.10	14.0
LPC-1	FD											142	24.0		0.26	0.19	1.06	0.10	14.2
GB-5		6/1/8/03	1120	1.0	27.50	1.96	24.7	185.1	0.08	6.84									
GB-6	TRG	6/18/03	12:00	0.3	27.93	1.87	23.9	182.4	0.08	6.83	0.5	161	13.4	39	0.24	0.35	1.61	2.56	11.2
GB-7		6/18/03	1230	1.0	28.52	2.95	37.1	181.1	0.08	6.86									
HC-1	TRG	6/18/03	10:40	0.3	27.21	1.82	23.5	245.2	0.12	7.04	2.5	147	29.1	18	0.15	0.15	1.00	ND	12.8
HC-2	TRG	6/18/03	11:15	0.3	27.44	2.40	33.1	244.8	0.12	6.99	2.0	151	36.0	19	0.19	0.12	1.56	ND	16.9
HC-3		6/18/03	10:10	1.0	28.04	2.77	35.9	268.1	0.13	6.93									
TC-1	TRG	6/18/03	11:15	0.3	29.17	6.31	82.5	288.4	0.14	7.35		190	17.5		0.13	ND	0.89	1.30	6.4
TC-2	TRG	6/18/03	11:00	0.1	27.44	3.22	40.7	191.7	0.09	7.35	6.0	157	11.5	21	0.26	0.25	1.80	2.72	9.4
TC-3																			
LB-1	TRG	6/18/03	10:40	0.1	25.45	0.29	2.3	227.6	0.11	7.37	3.0	149	35.4	28	0.15	0.21	1.43	ND	15.0
LB-2		6/18/03	10:20	0.1	28.36	4.41	56.5	198.8	0.09	7.25	3.3	136	35.6	49	0.18	ND	1.27	ND	16.5
BoC-1	TRG	6/18/03	9:20	0.3	28.06	1.67	22.0	193.3	0.09	6.85	2.8	147	36.6		0.21	0.14	1.23	ND	17.3
BBf-1	TRG	6/18/03	10:00	0.3	28.32	1.90	24.8	197.1	0.09	6.90	3.0	143	37.6	44	0.21	ND	1.40	ND	18.1
BBf-2		6/18/03	955	1.0	28.69	2.67	34.3	233.6	0.11	6.95									
BBf-3	TRG	6/18/03	11:50	0.3	29.13	3.96	52.4	206.8	0.10	6.95	1.0	163	24.8	80	0.21	0.29	1.86	2.08	17.9
BBf-4		6/18/03	930	1.0	28.57	2.65	34.2	215.0	0.10	7.16									
LDA-1	TRG	6/18/03	9:15	0.3	28.54	2.90	38.4	227.5	0.11	6.96		150	31.4		0.19	0.24	1.49	0.80	15.4

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Table C2.2. Comparison of survey data and historical data for Grand Bayou (020102).

parameter	LDEQ Station 0083 June, 1978-1990			GB-2 6/18/03
TEMP (C)	21.50	-	30.50	26.56
DO (mg/L)	0.2	-	10.8	1.96
NO2+NO3 (mg/L)	0.01	-	3.37	1.44
TKN (mg/L)	0.97	-	1.74	1.63
TP (mg/L)	0.16	-	0.43	0.24
TOC (mg/L)	6.5	-	18.0	13.6

Table C2.3. Comparison of survey data and historical data for Bayou Boeuf (020102).

parameter	LDEQ Station 0918 May-July, 2000			BBf-1 6/18/03
TEMP (C)	25.60	-	32.60	28.32
DO (mg/L)	0.5	-	3.93	1.9
NO2+NO3 (mg/L)	0.05	-	0.06	ND
TKN (mg/L)	1.36	-	1.55	1.40
TP (mg/L)	0.25	-	0.42	0.21
TOC (mg/L)	16.5	-	20.7	18.1

APPENDIX C3

Plots of Continuous In Situ Data

Table C3.1 Summary of Continuous Monitoring data on sampling day.

Station	DO		pH	
	Mean	diurnal Swing	Mean	diurnal Swing
BBF-1	3.45	3.70	6.64	0.20
BBF-3	2.81	2.60	6.69	0.10
BBF-5	2.83	2.60	6.71	0.10
BO-1	1.88	1.40	6.94	0.20
BoC-1	2.28	2.20	6.49	0.20
GB-1	2.39	1.40	6.76	0.10
GB-4	2.12	1.50	6.78	0.10
GB-6	2.52	3.20	6.86	0.20
HC-2	1.85	2.40	6.66	0.10
LB-1	0.12	0.30	6.90	0.10
LDA-1	3.56	4.30	6.83	0.20
LPC-1	0.76	1.00	6.70	0.00
TC-1	7.72	6.60	7.81	1.10

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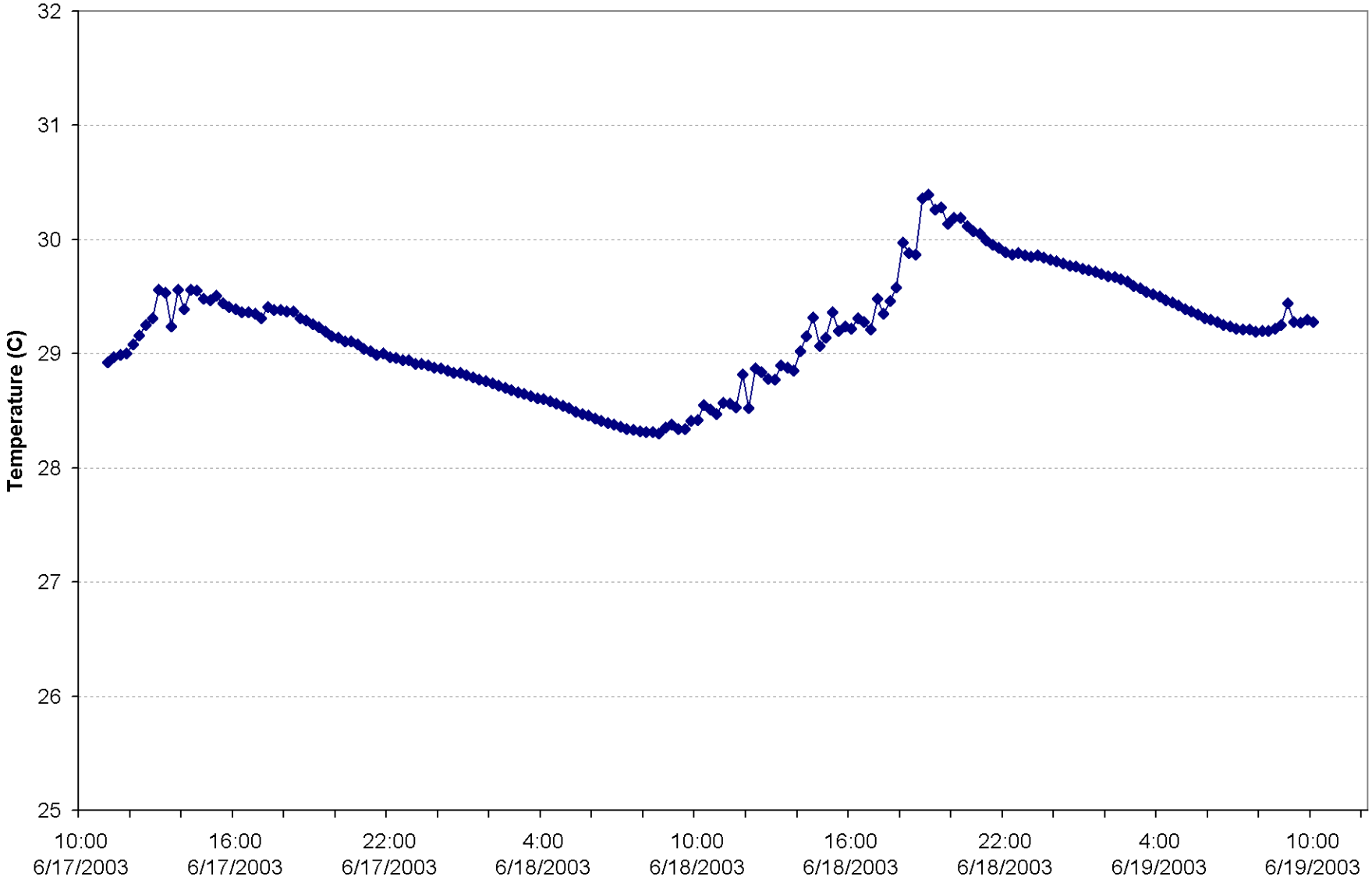
Figure C3.1. Continuous Temperature for Bayou Beouf BBF-1



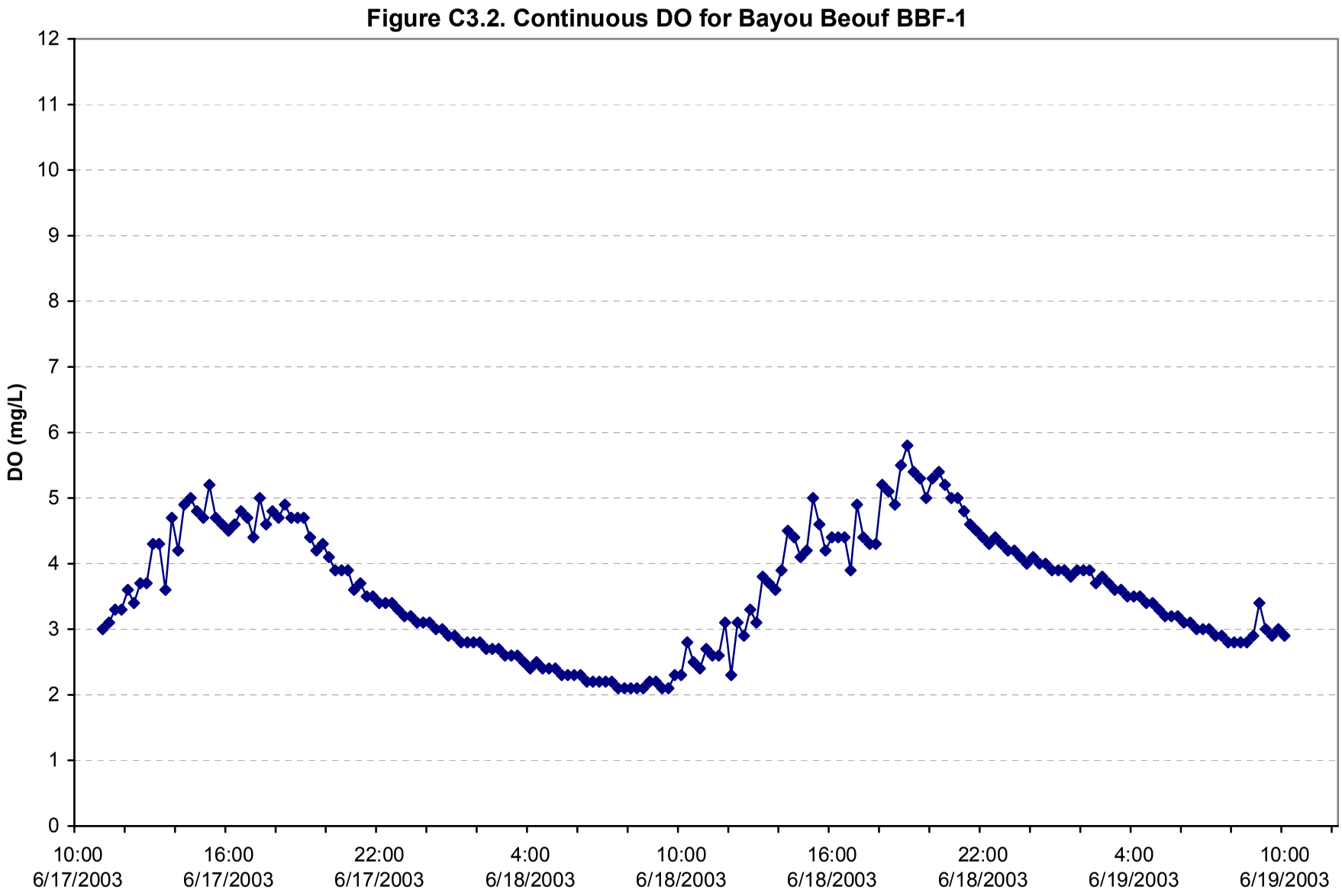


Figure C3.2. Continuous DO for Bayou Beouf BBF-1
DO (mg/L)
0
1
2
3
4
5
6
7
8
9
10
11
12
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

Figure C3.3. Continuous DO Percent Saturation for Bayou Beouf BBF-1

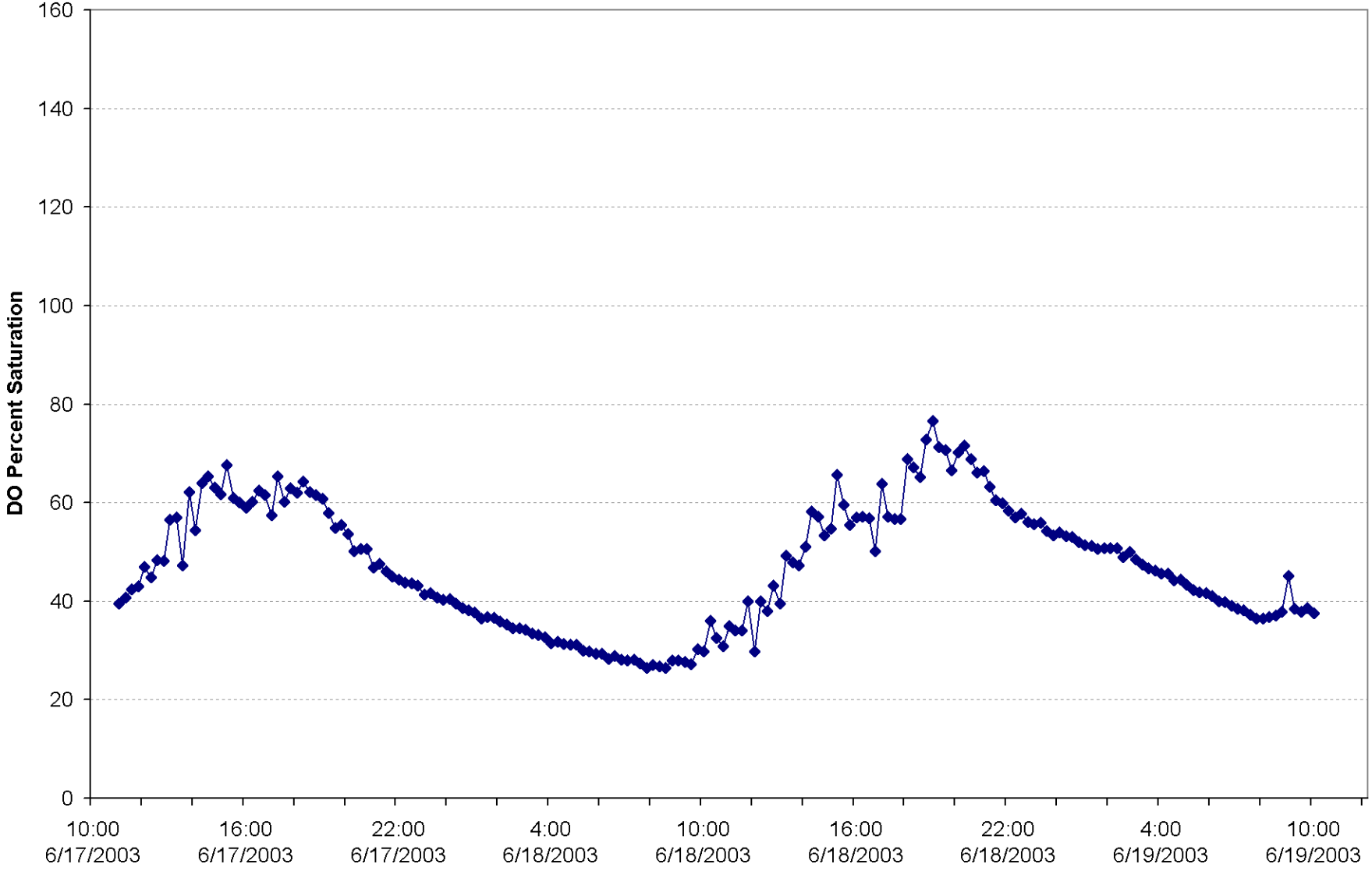


Figure C3.4. Continuous pH for Bayou Beouf BBF-1

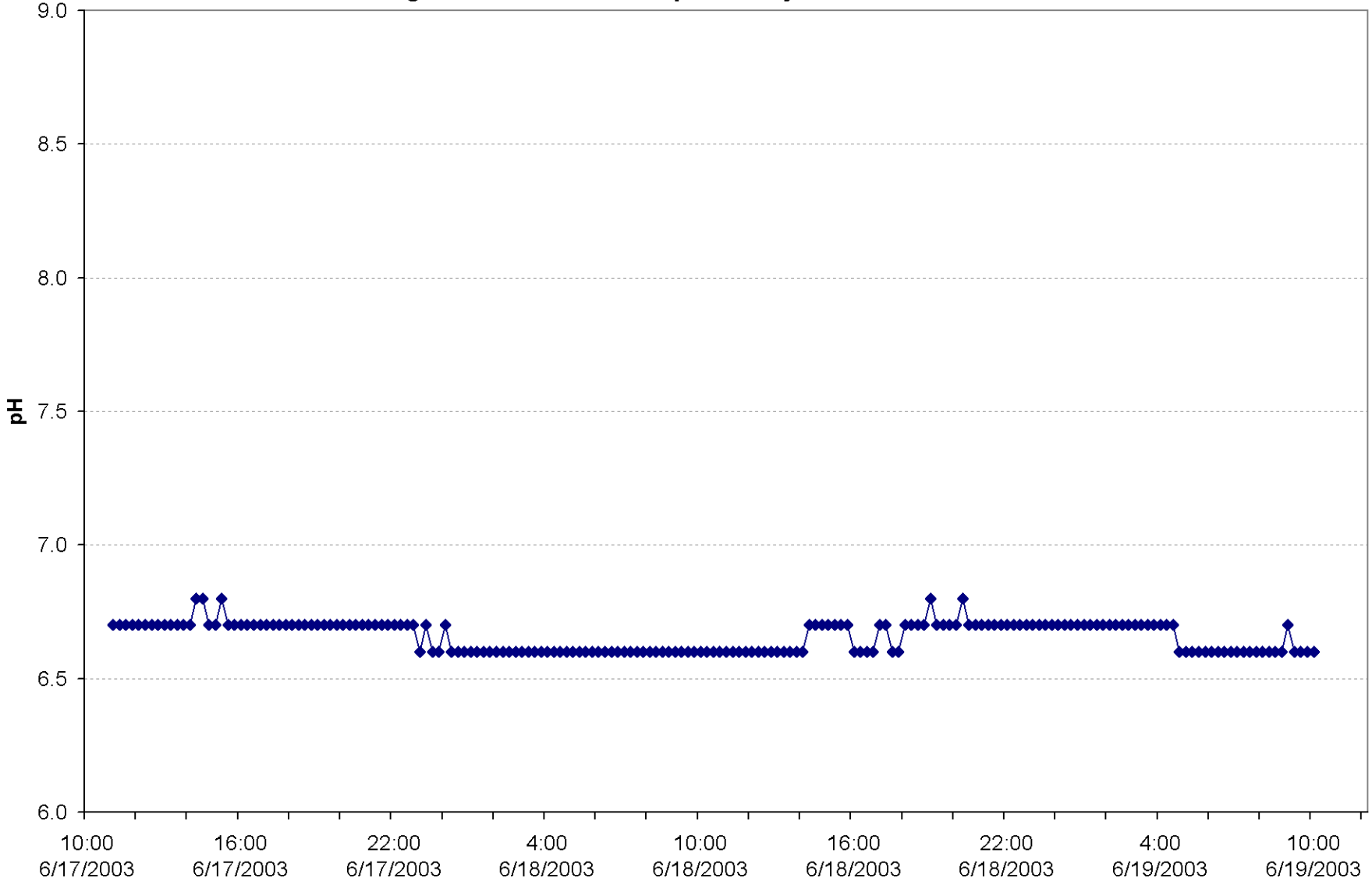
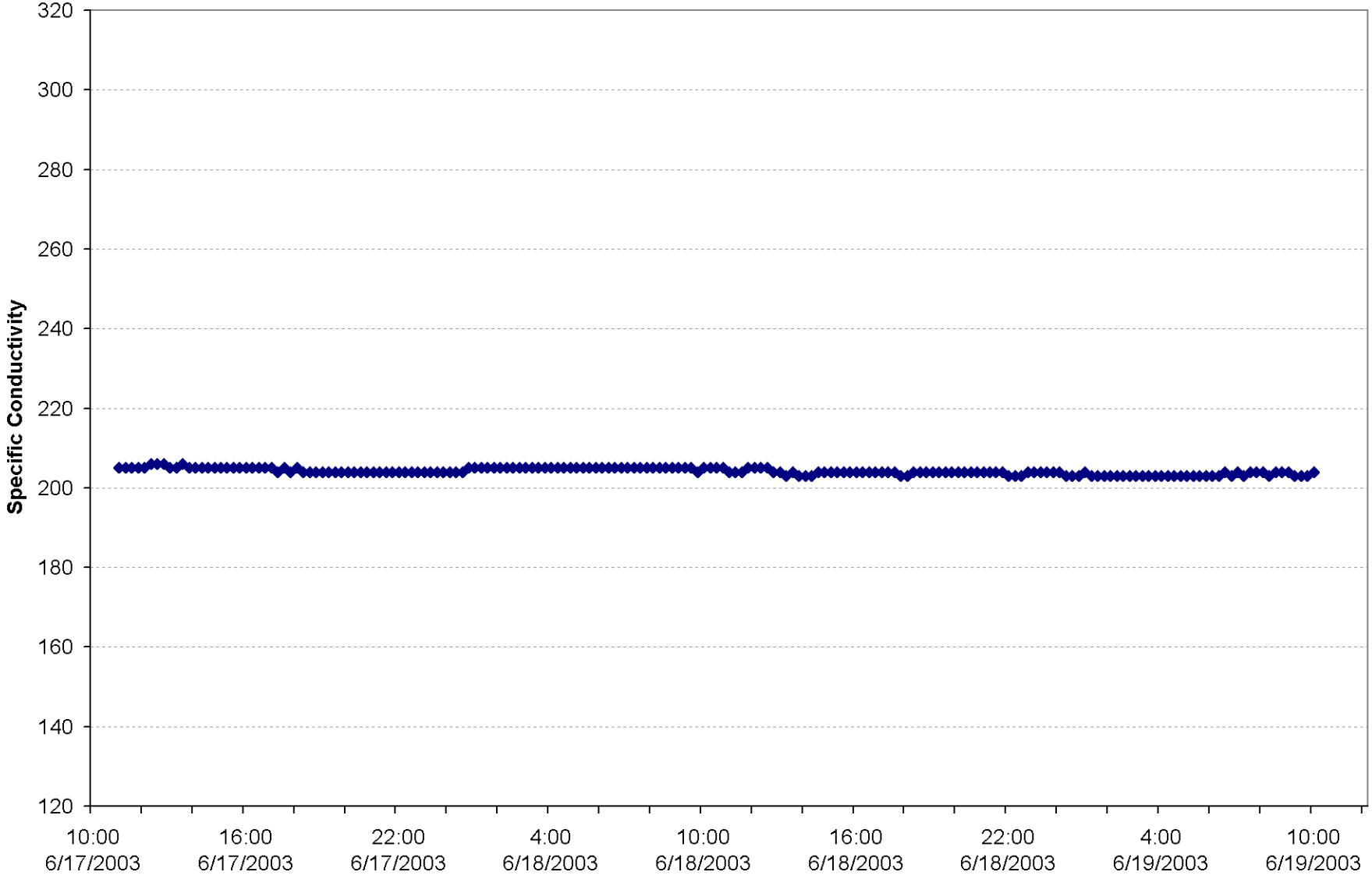


Figure C3.5. Continuous Specific Conductivity for Bayou Beouf BBF-1



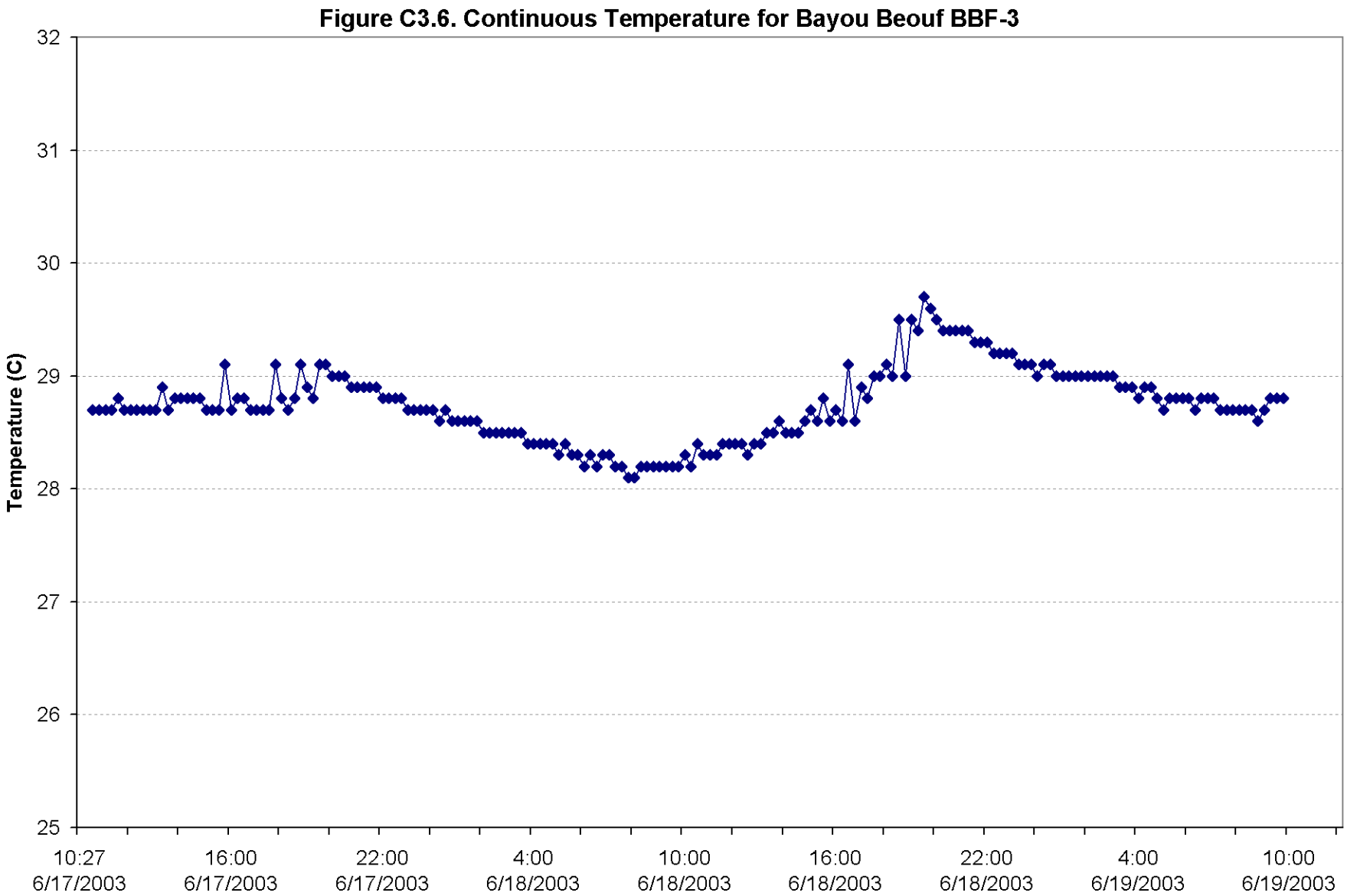


Figure C3.6. Continuous Temperature for Bayou Beouf BBF-3
Temperature (C)
32
31
30
29
28
27
26
25
10:27
6/17/2003
16:00
6/17/2003
22:00
6/17/2003
4:00
6/18/2003
10:00
6/18/2003
16:00
6/18/2003
22:00
6/18/2003
4:00
6/19/2003
10:00
6/19/2003

Figure C3.7. Continuous DO for Bayou Beouf BBF-3

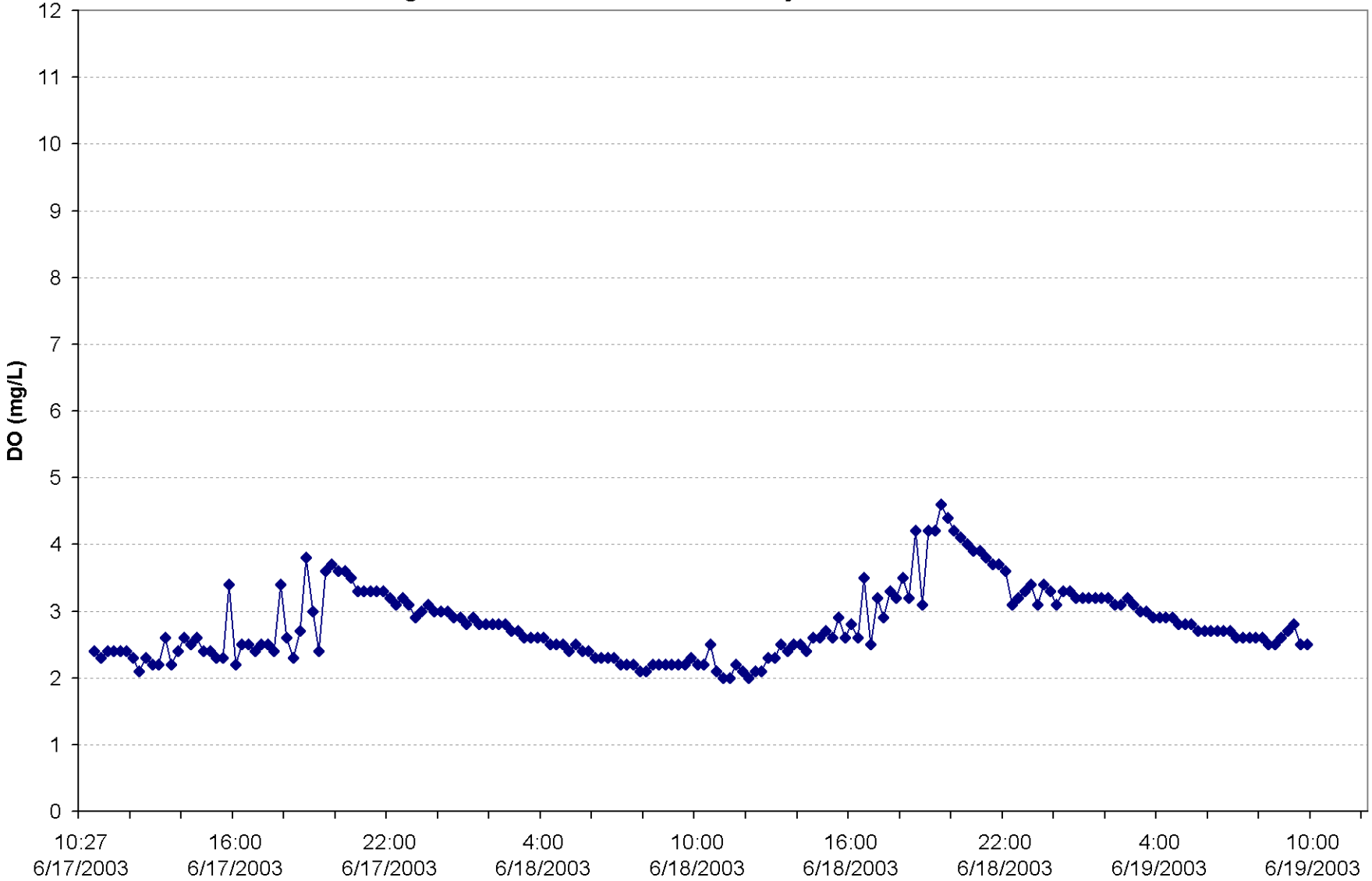


Figure C3.8. Continuous DO Percent Saturation for Bayou Beouf BBF-3

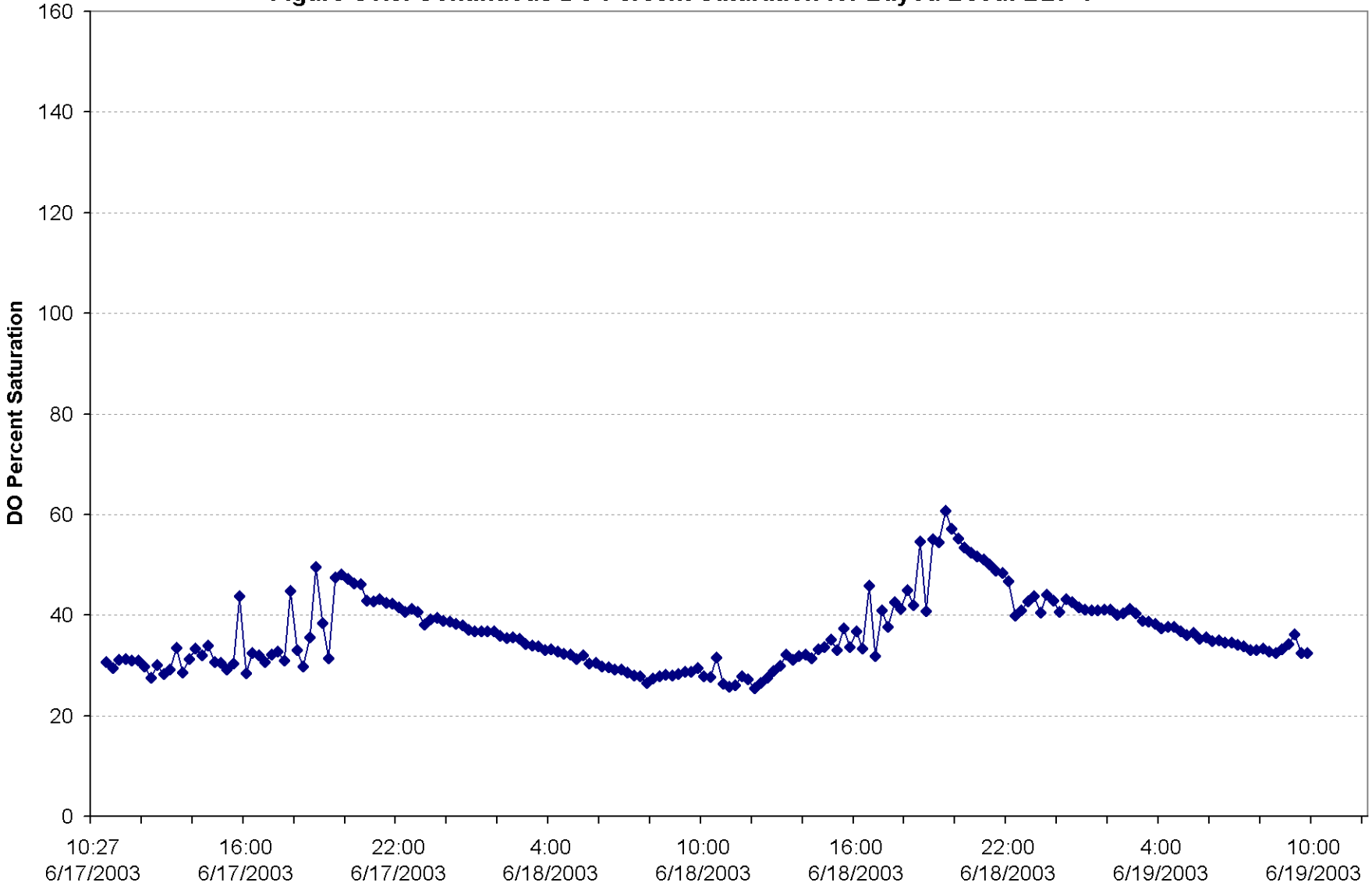


Figure C3.9. Continuous pH for Bayou Beouf BBF-3

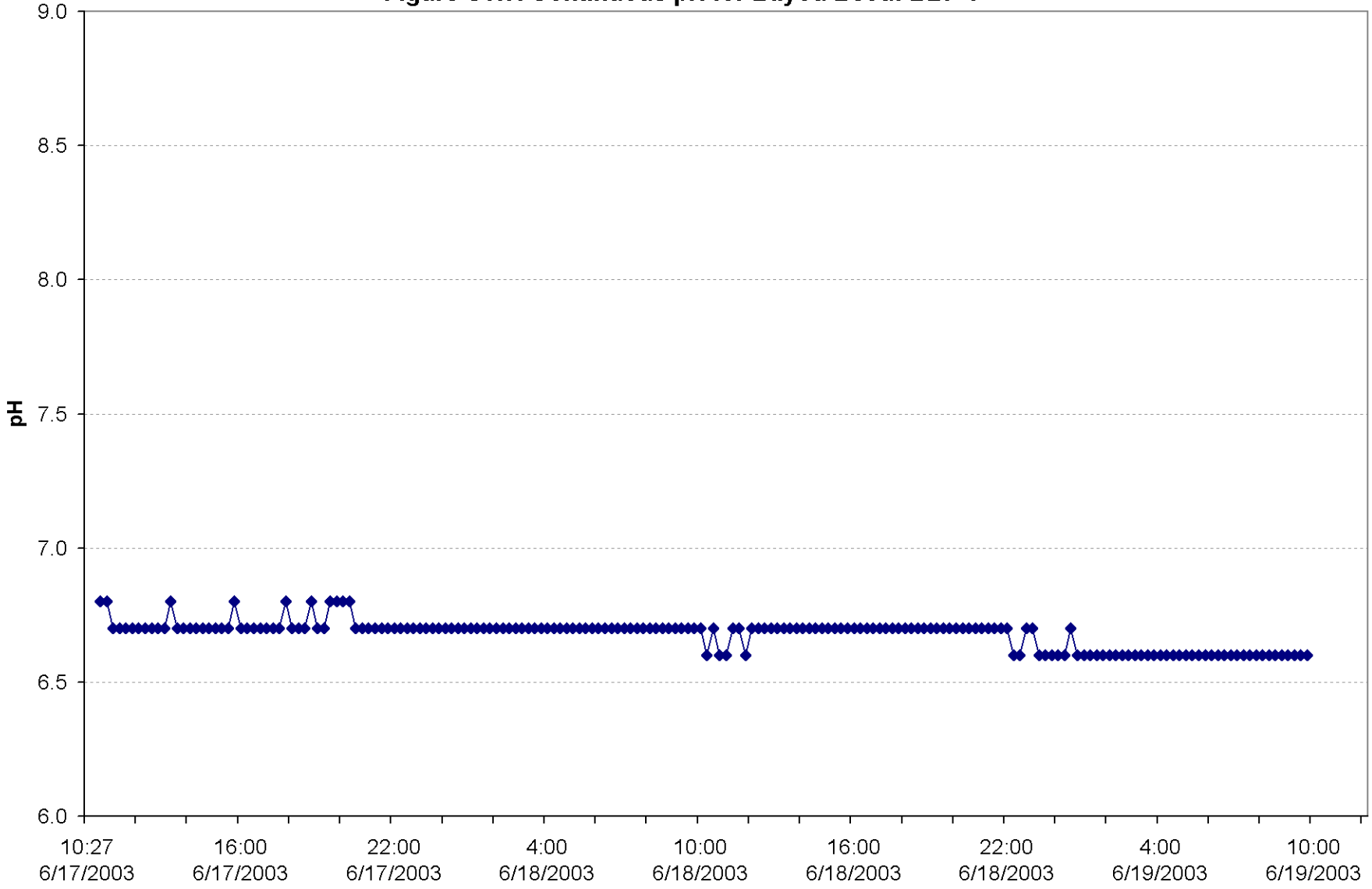


Figure C3.10. Continuous Specific Conductivity for Bayou Beouf BBF-3

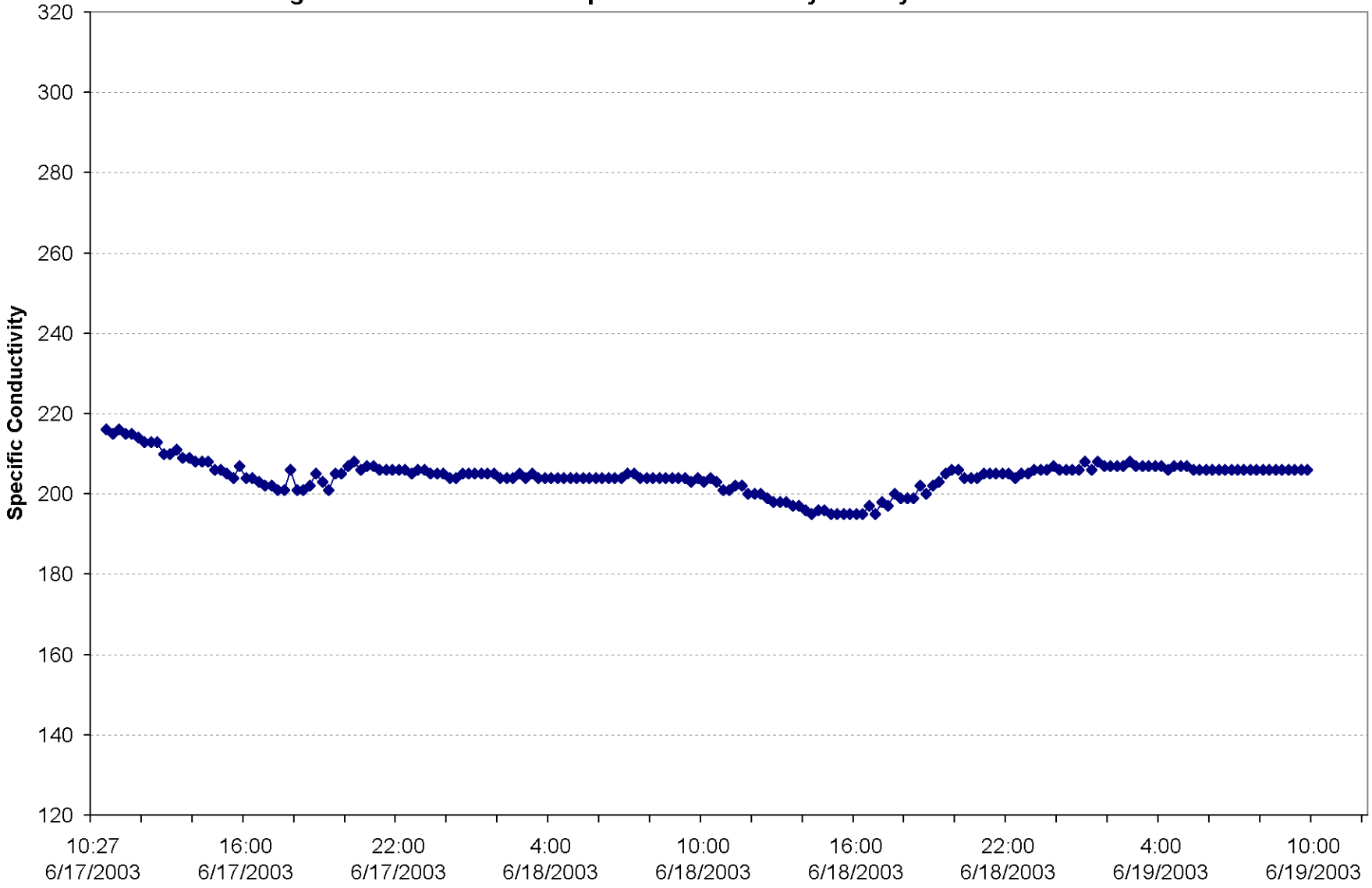


Figure C3.11. Continuous Temperature for Bayou Beouf BBF-5

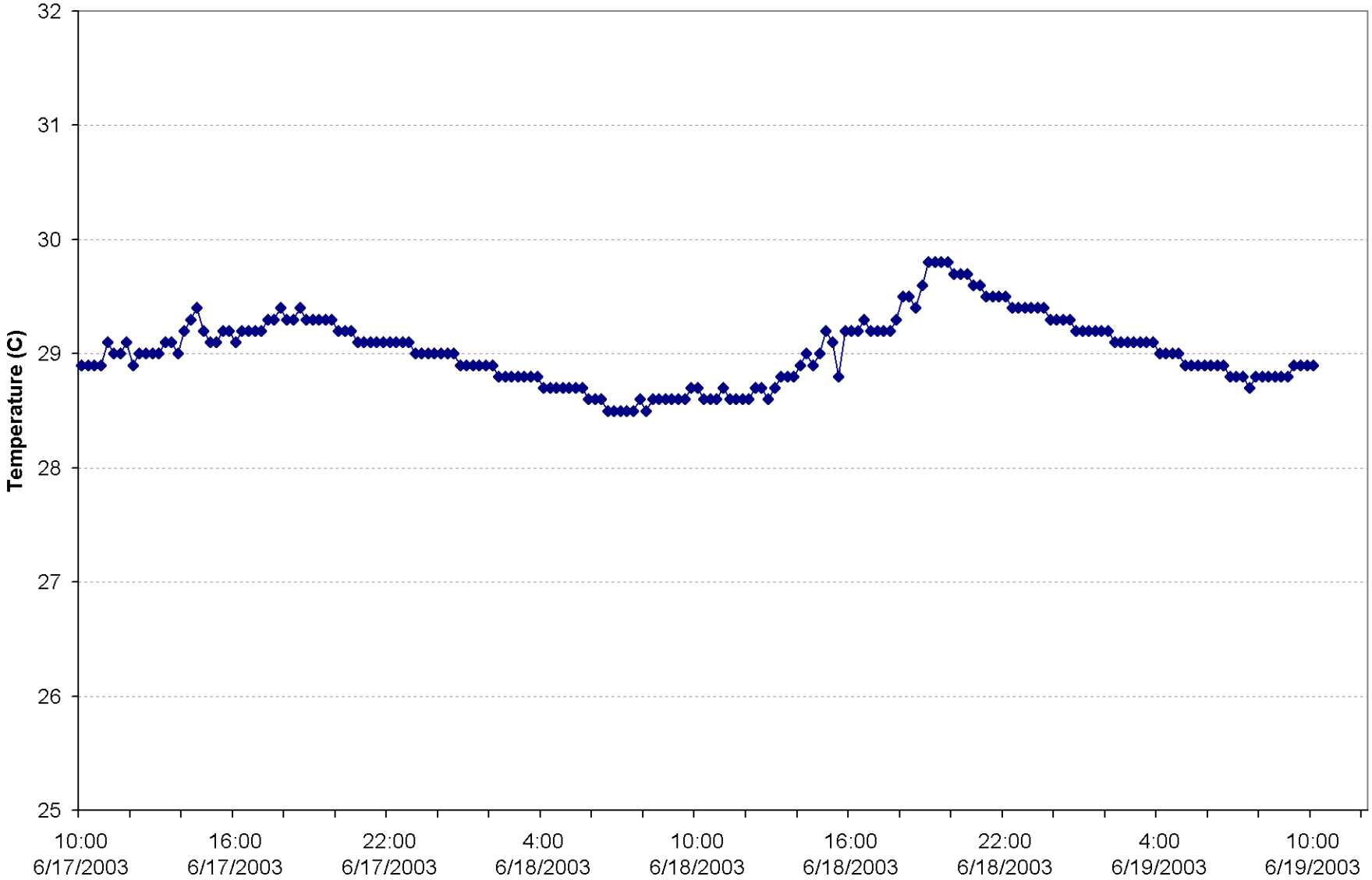


Figure C3.12. Continuous DO for Bayou Beouf BBF-5

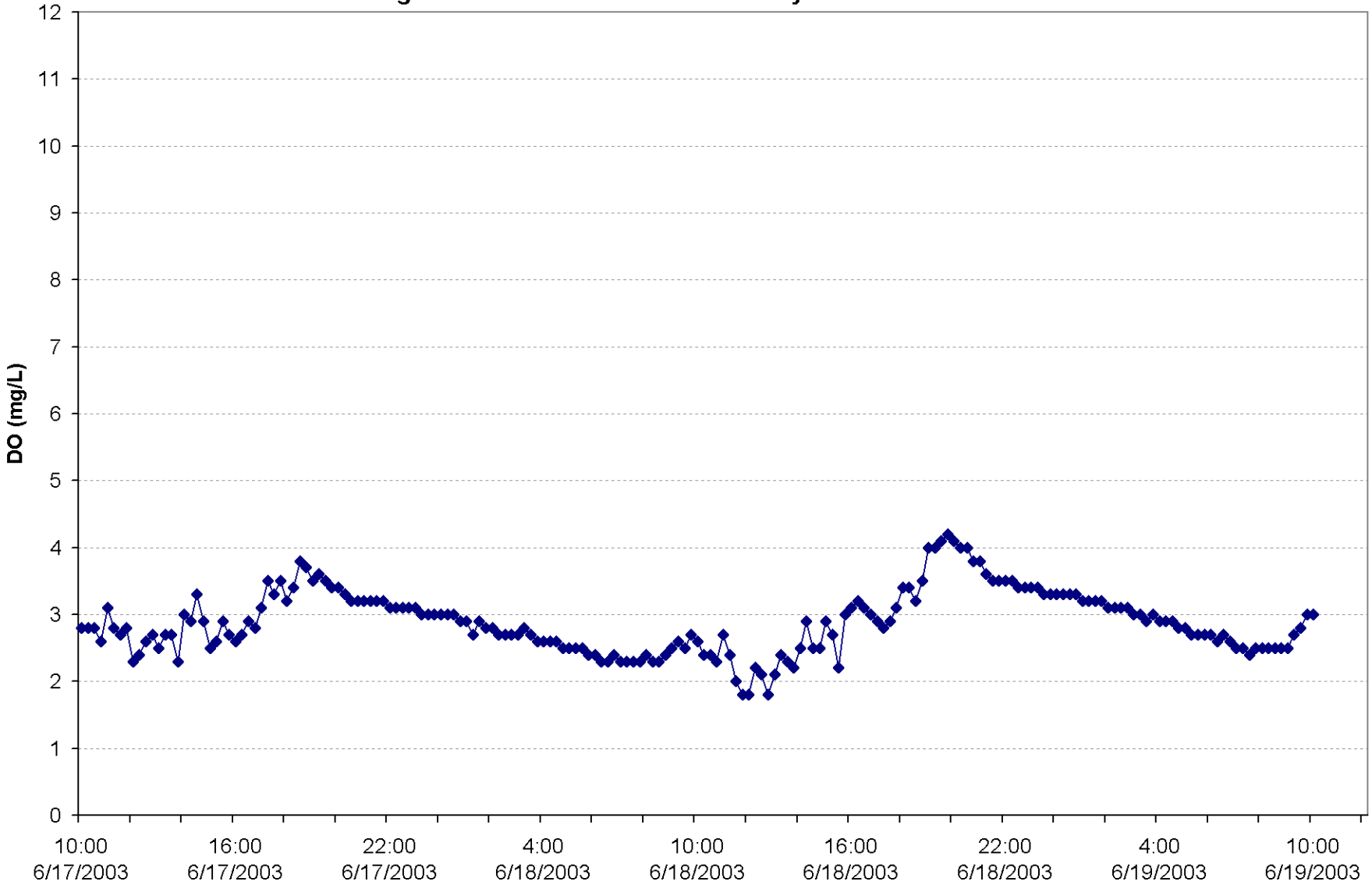


Figure C3.13. Continuous DO Percent Saturation for Bayou Beouf BBF-5

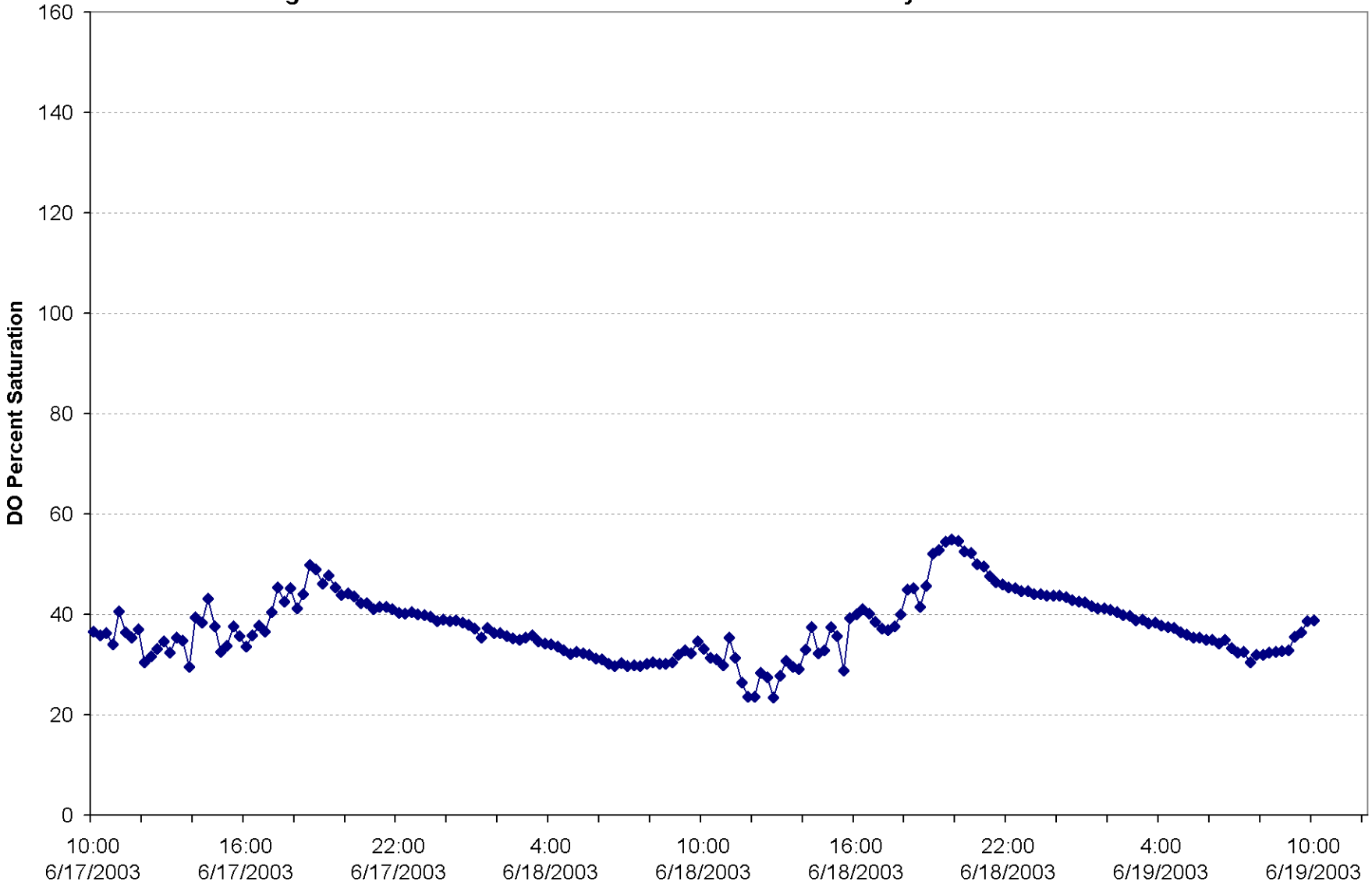


Figure C3.14. Continuous pH for Bayou Beouf BBF-5

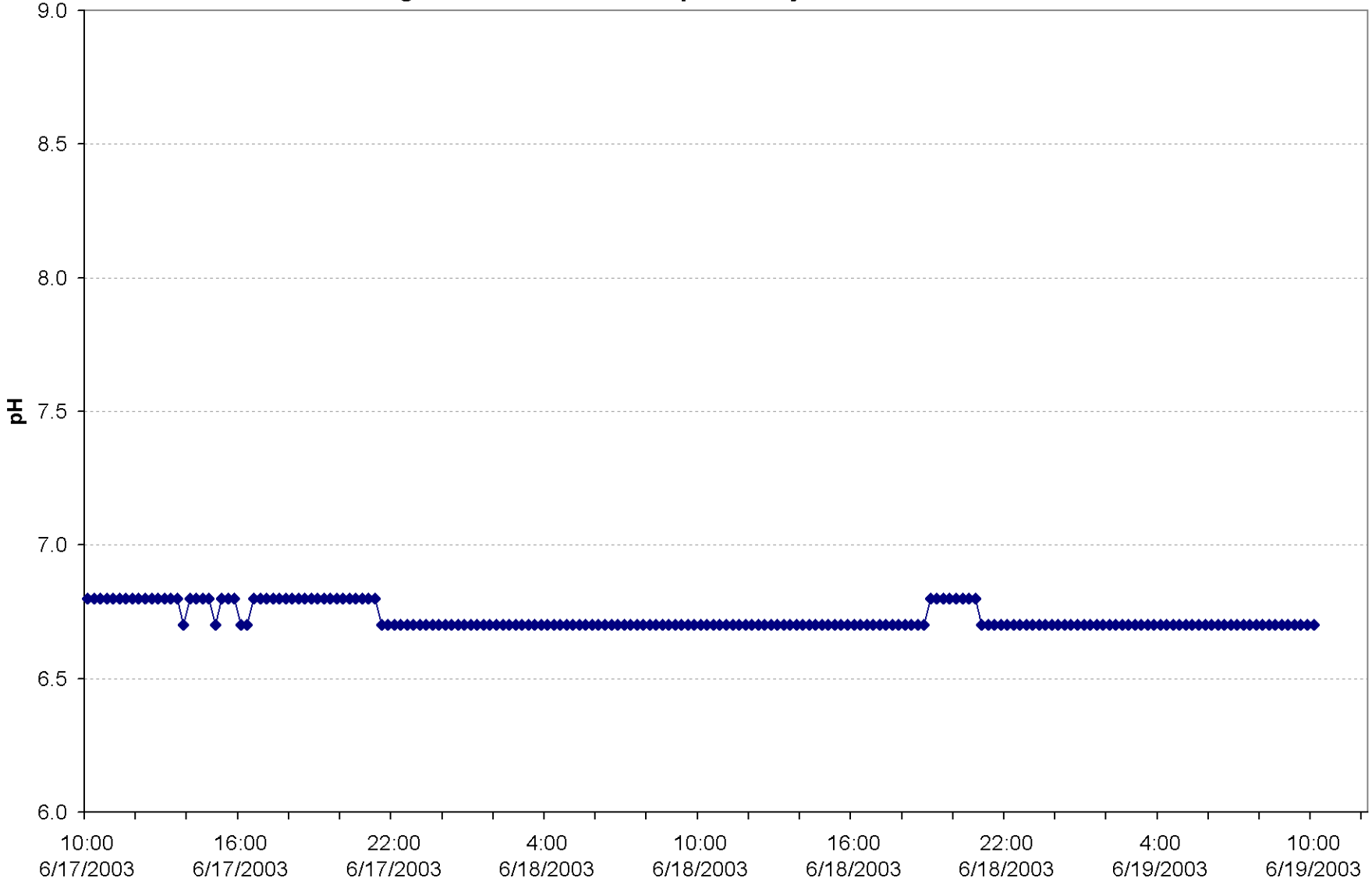


Figure C3.15. Continuous Specific Conductivity for Bayou Beouf BBF-5

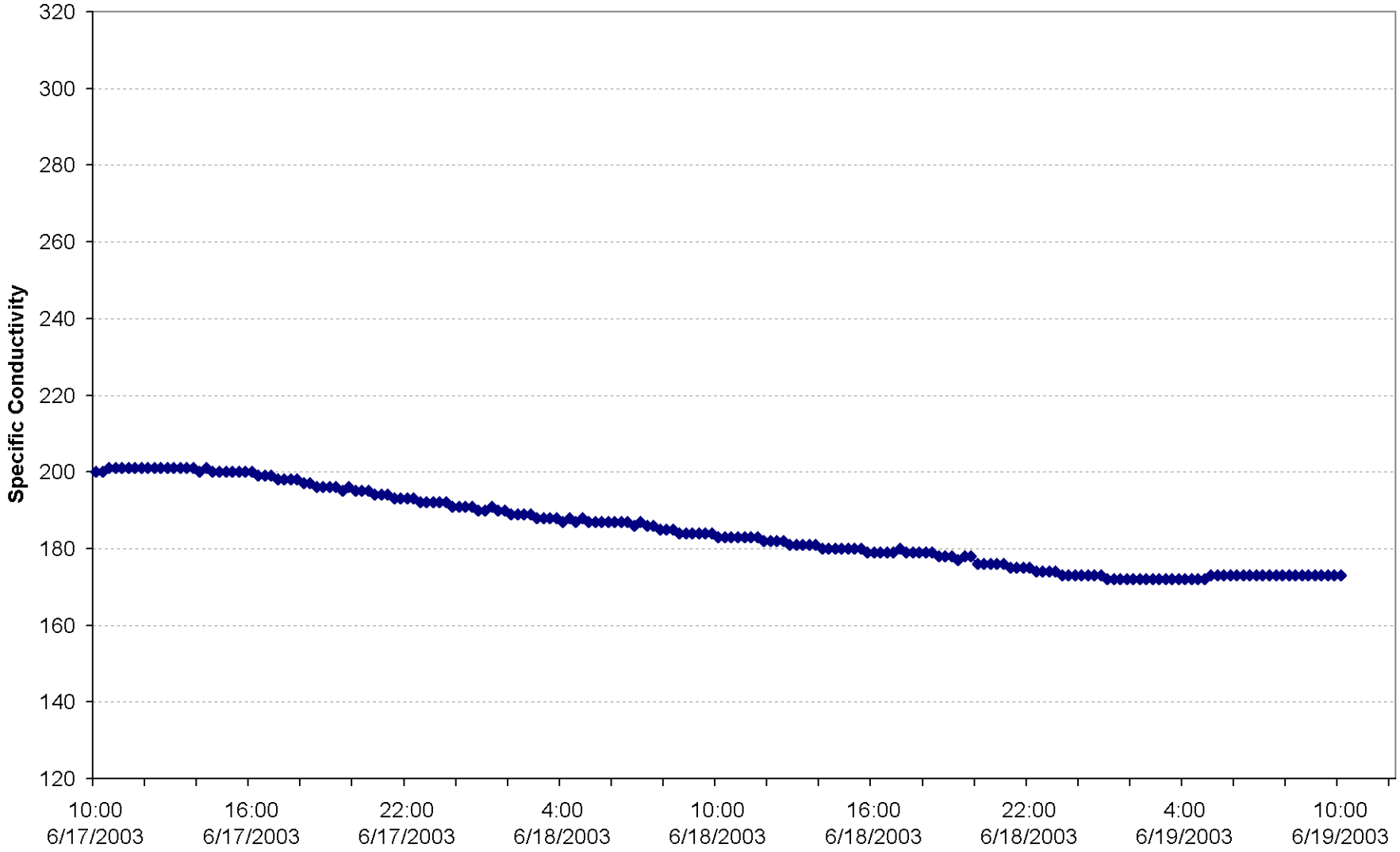


Figure C3.16. Continuous Depth for Bayou Beouf BBF-5

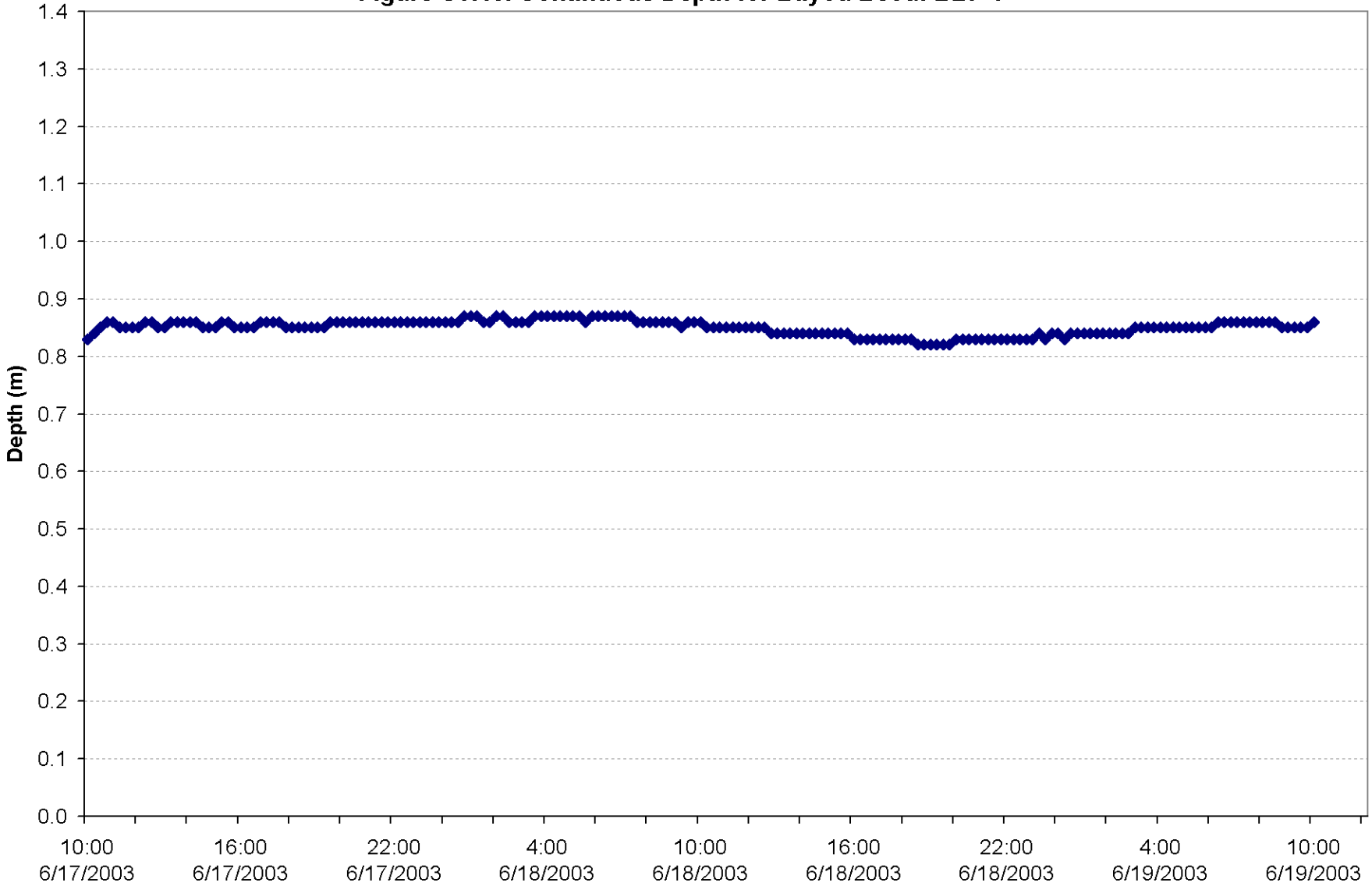


Figure C3.17. Continuous Temperature for Bayou Onion at BO-1

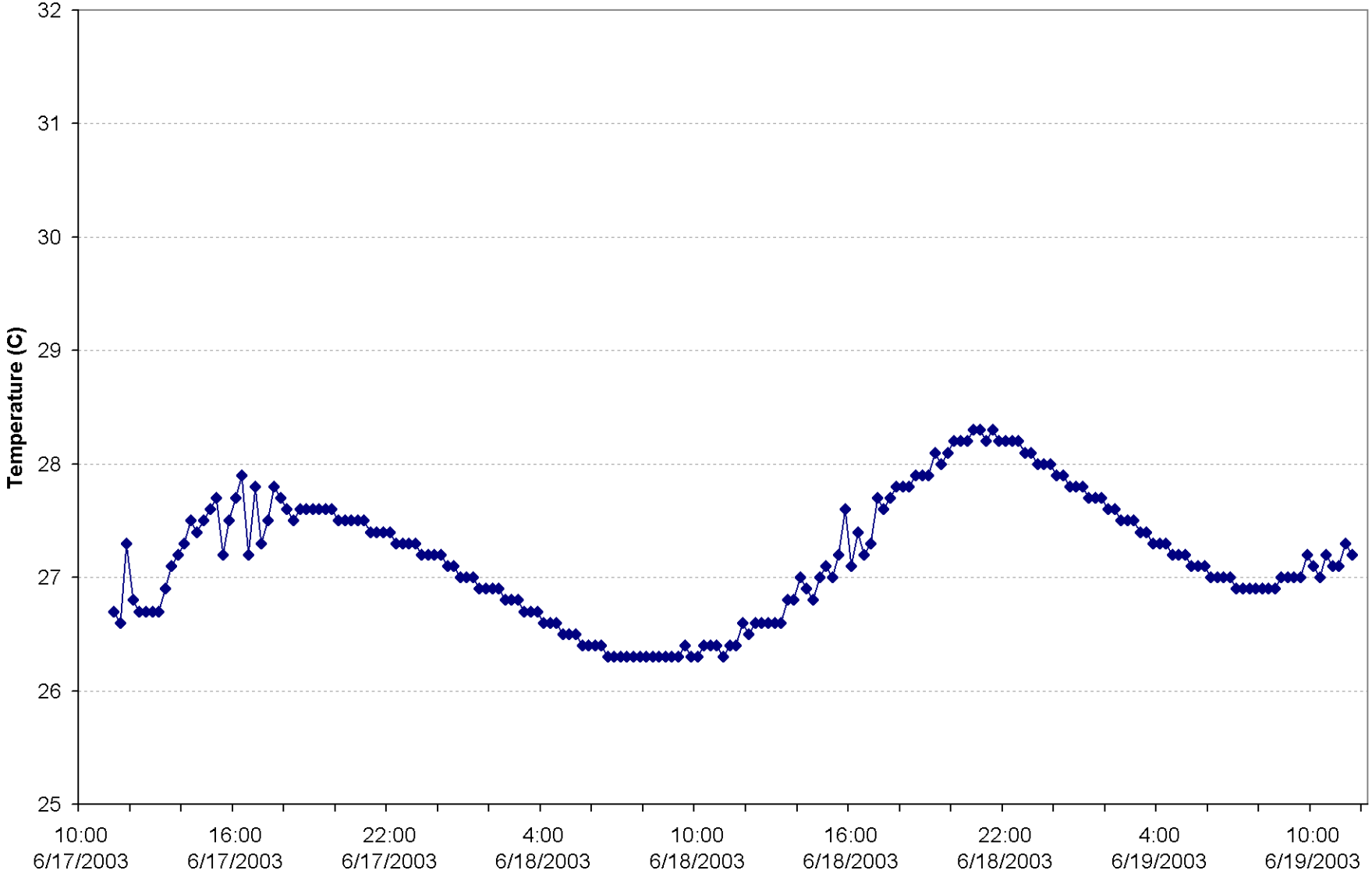
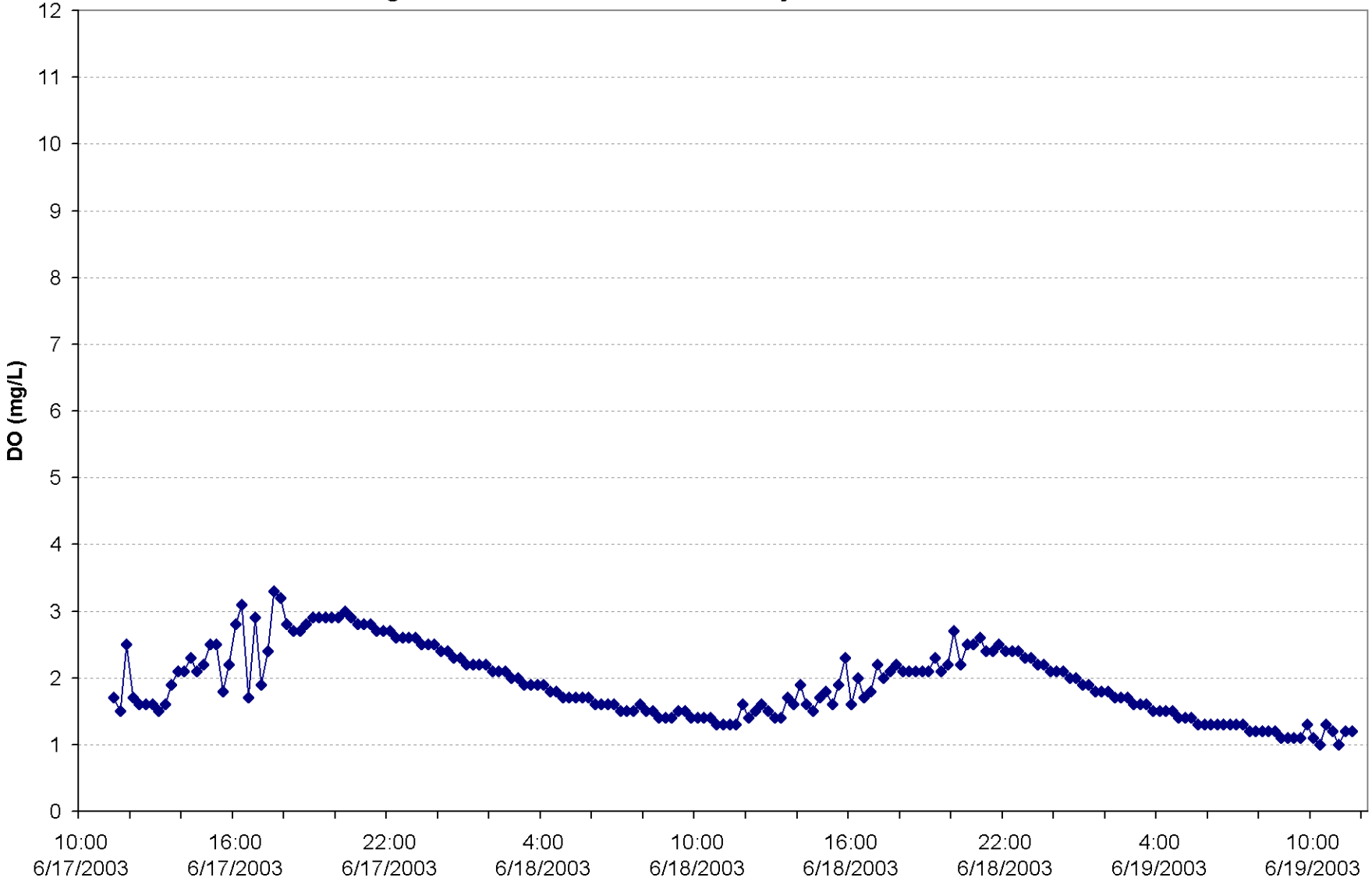


Figure C3.18. Continuous DO for Bayou Onion at BO-1



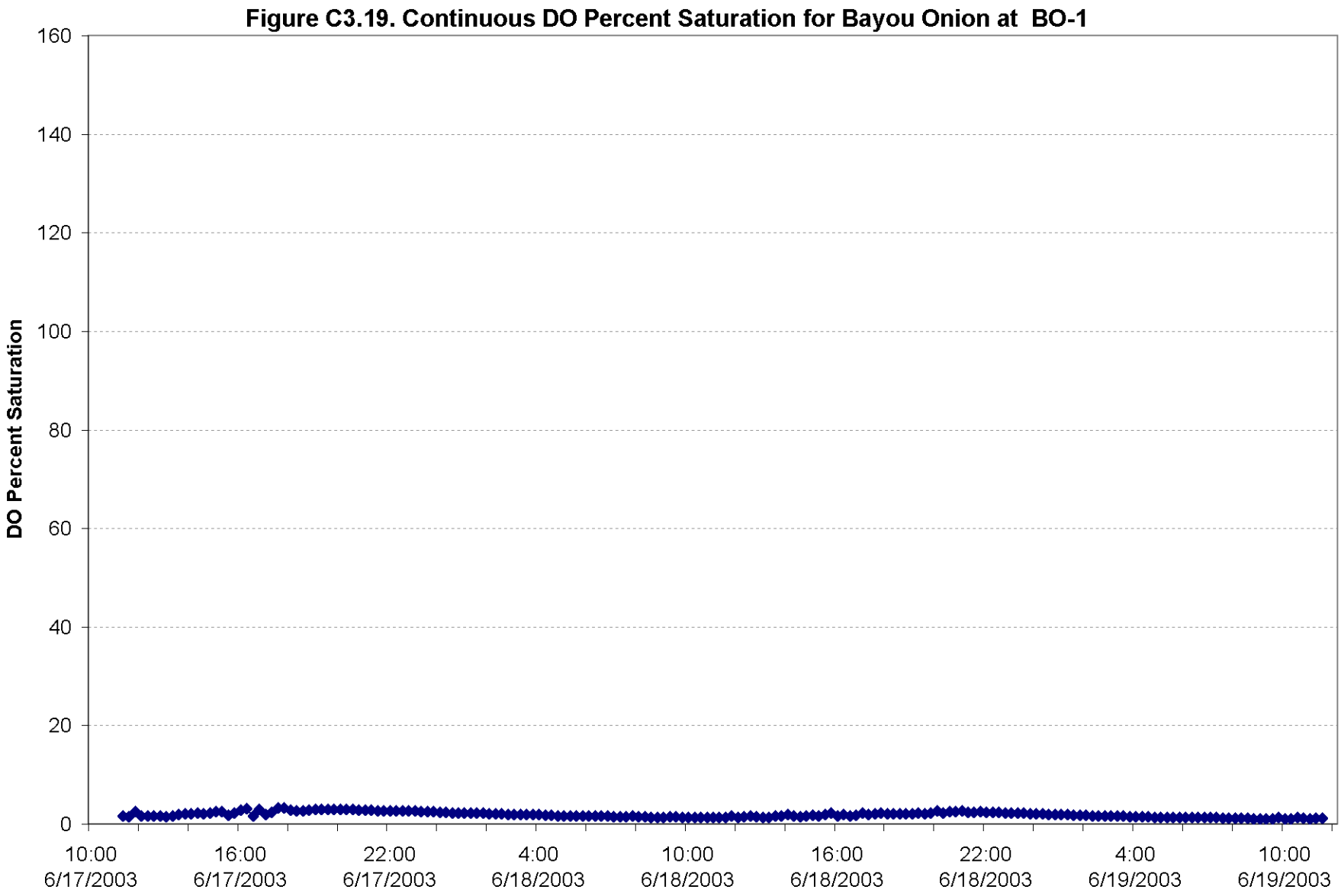


Figure C3.19. Continuous DO Percent Saturation for Bayou Onion at BO-1
DO Percent Saturation
160
140
120
100
80
60
40
20
0
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

Figure C3.20. Continuous pH for Bayou Onion at BO-1

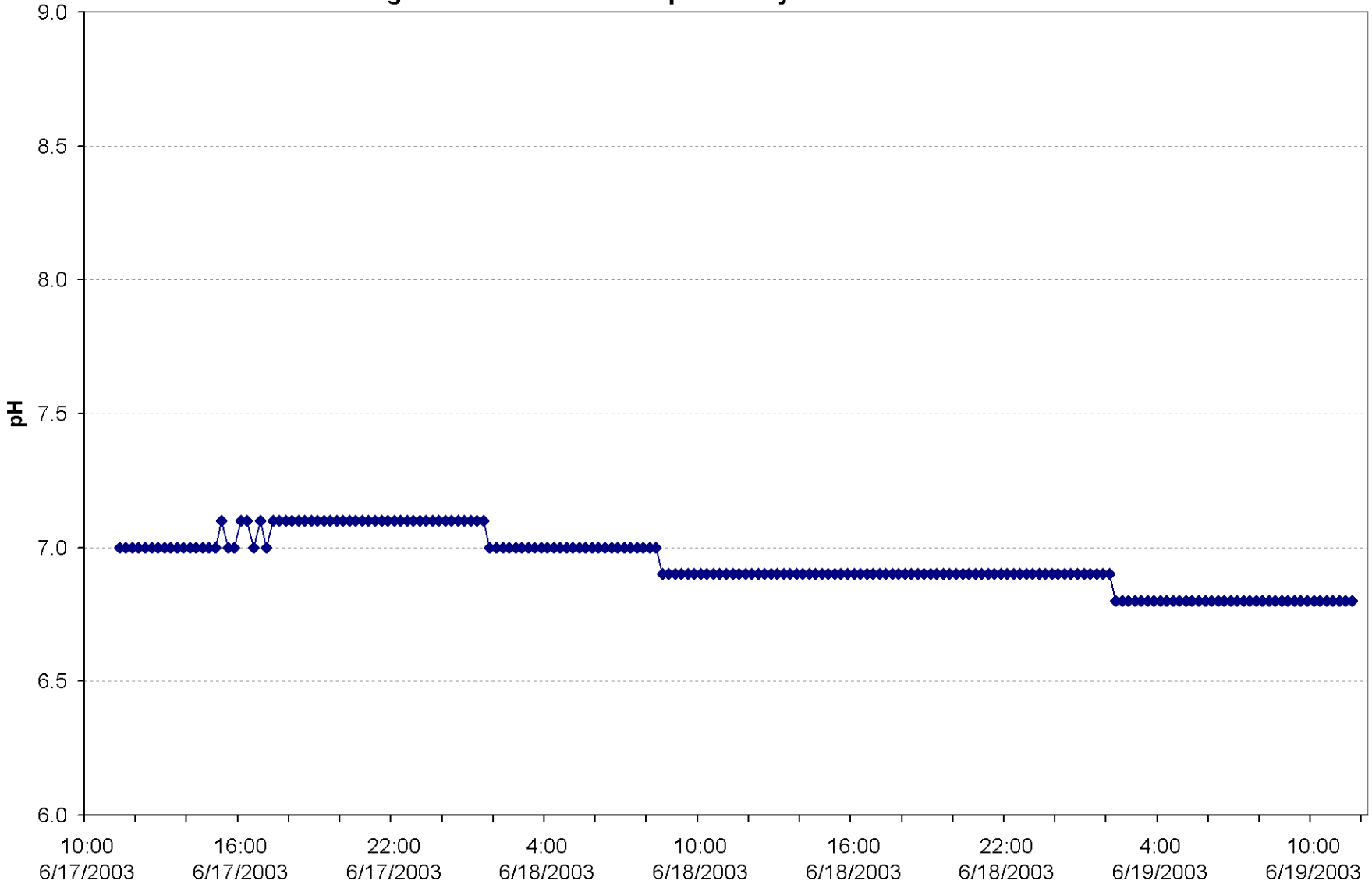


Figure C3.21. Continuous Specific Conductivity for Bayou Onion at BO-1

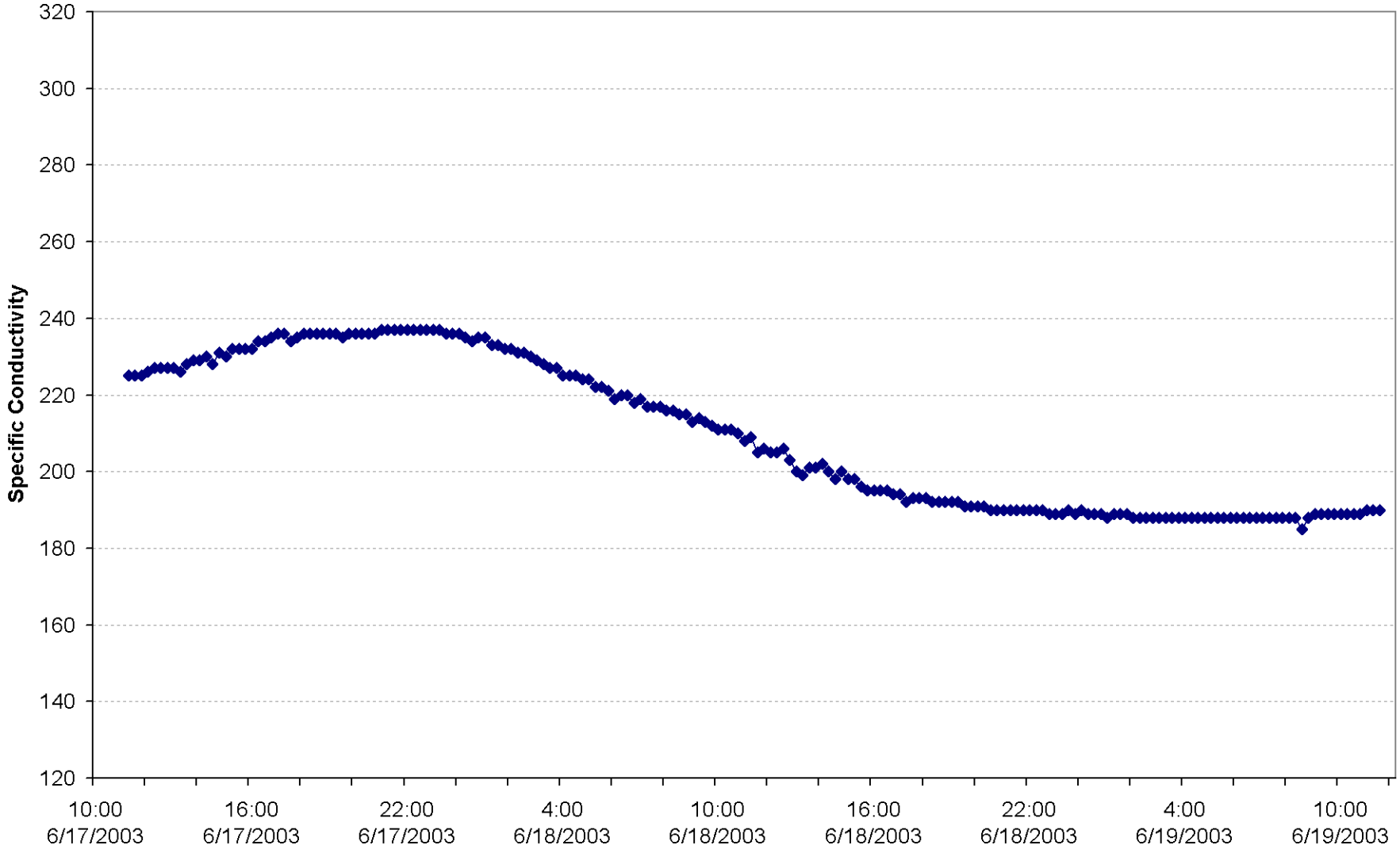


Figure C3.22. Continuous Depth for Bayou Onion at BO-1

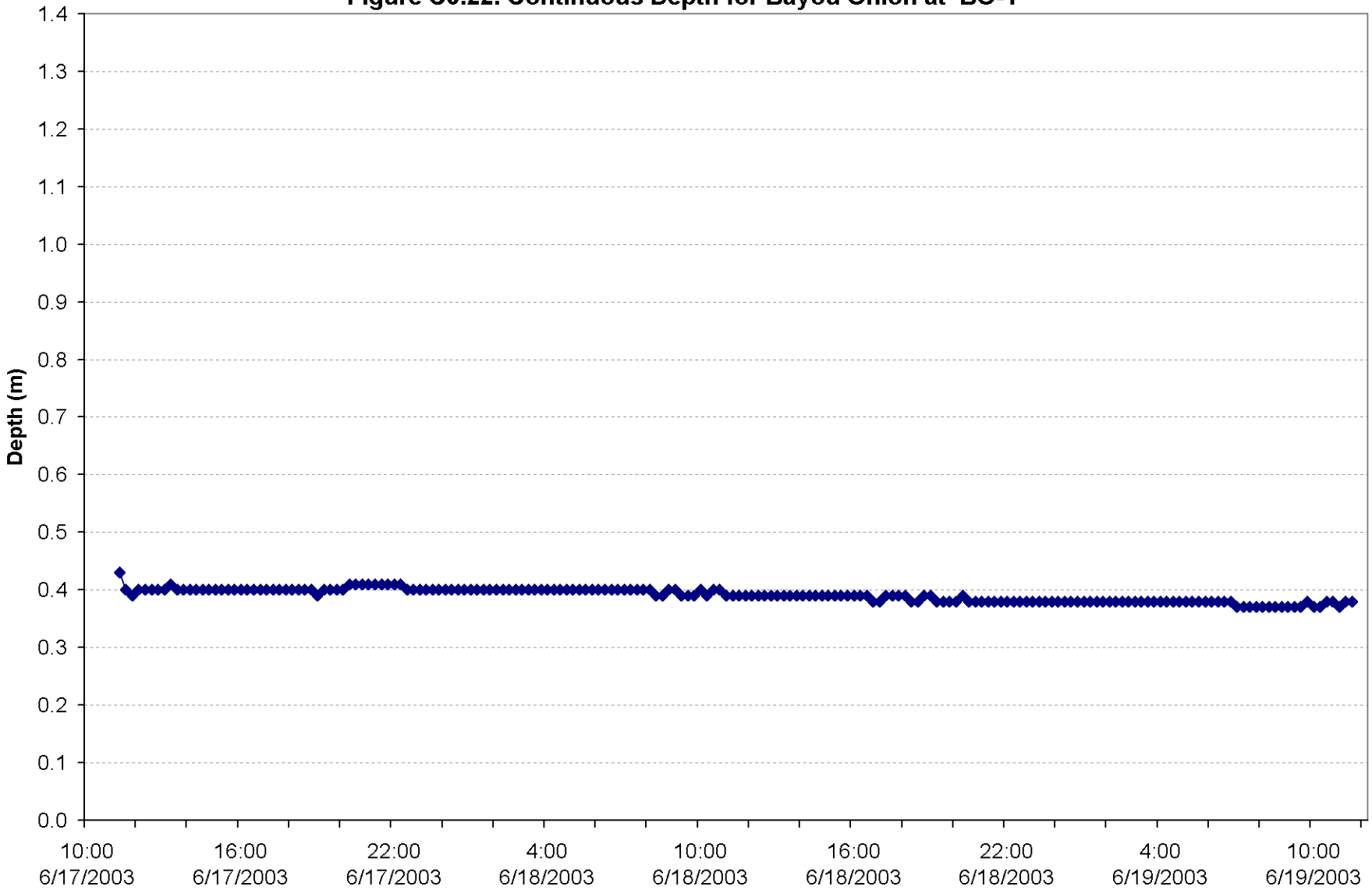


Figure C3.23. Continuous Temperature for Bowie Canal at BoC-1

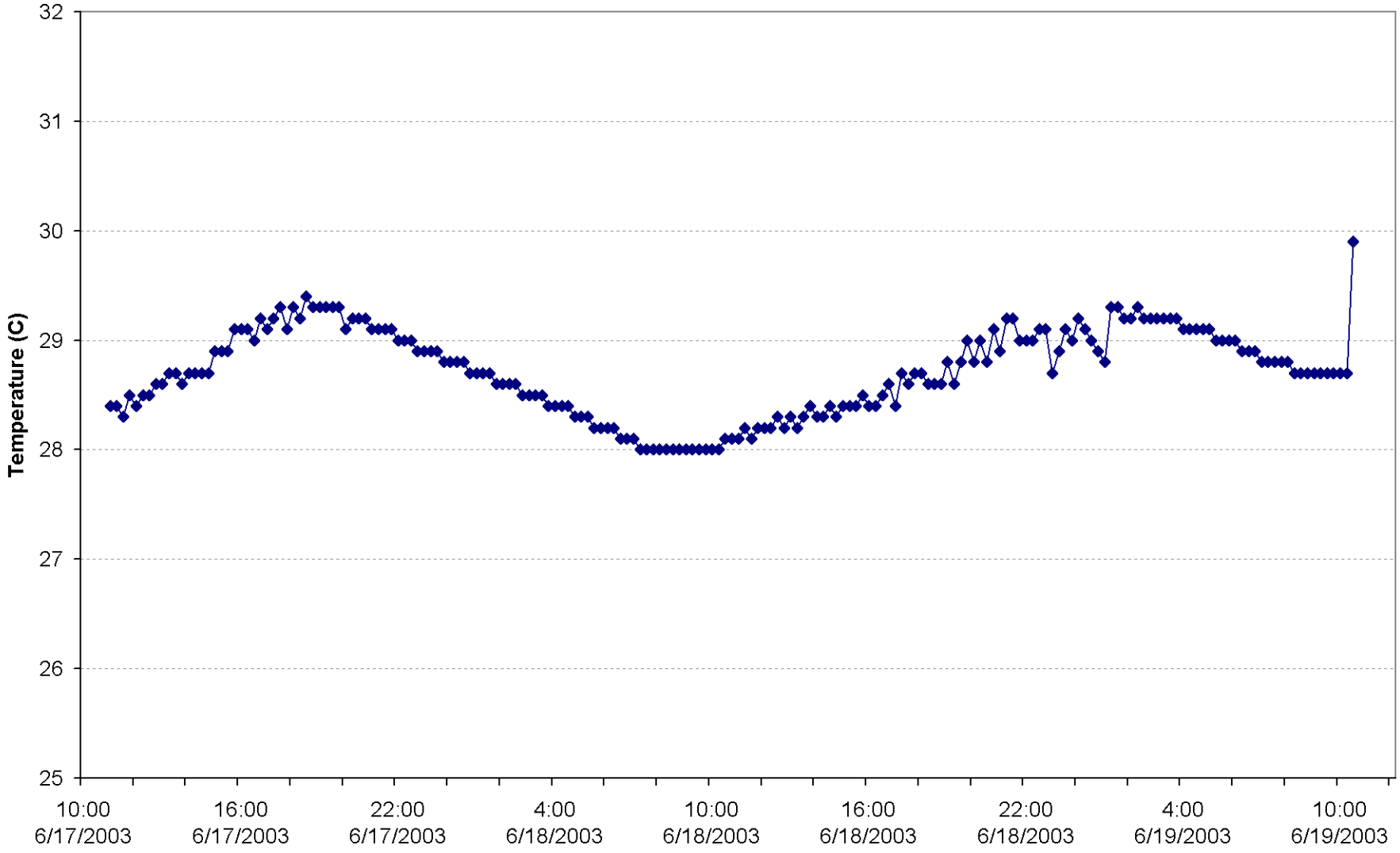
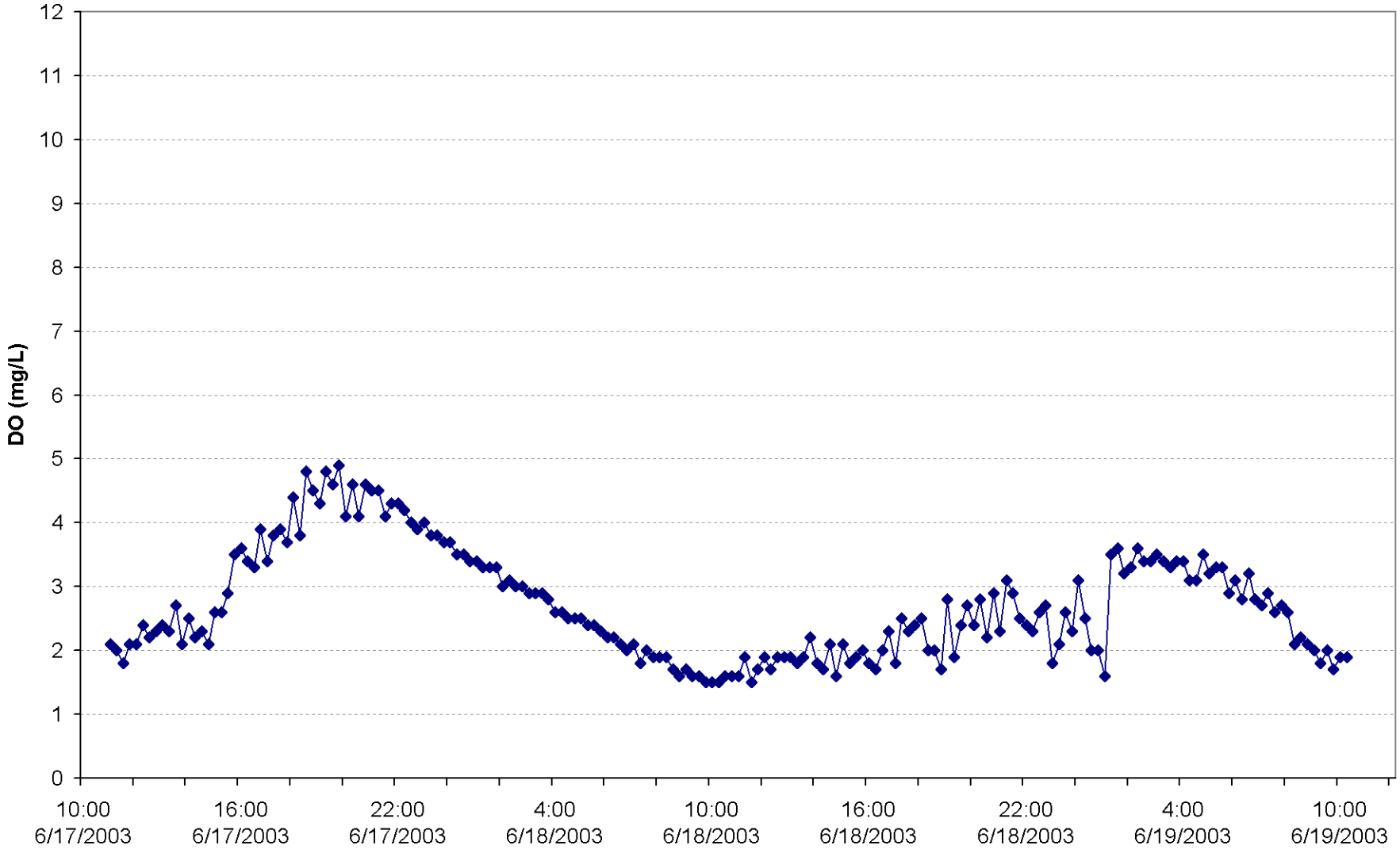


Figure C3.24. Continuous DO for Bowie Canal at BoC-1



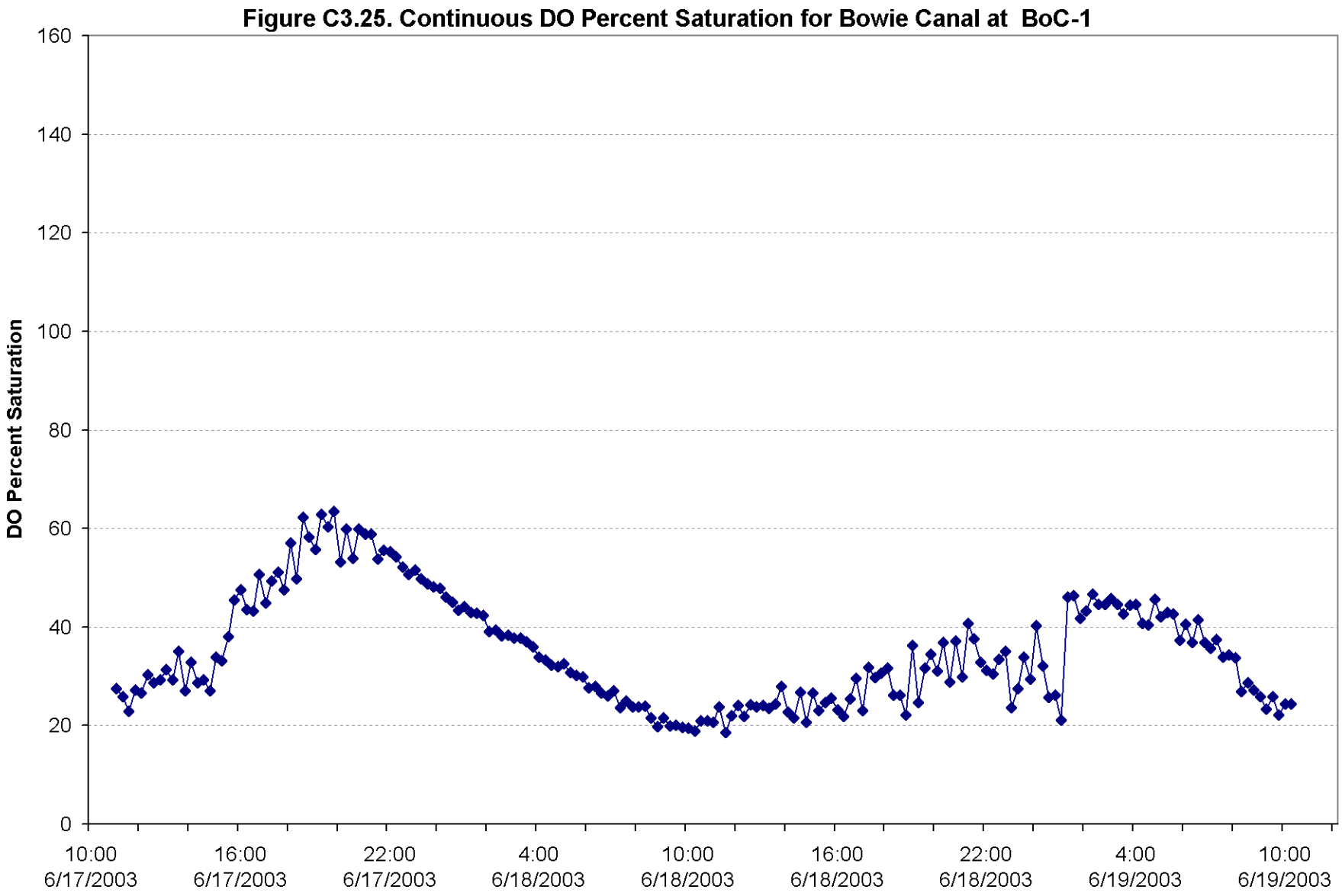


Figure C3.25. Continuous DO Percent Saturation for Bowie Canal at BoC-1
DO Percent Saturation
160
140
120
100
80
60
40
20
0
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

Figure C3.26. Continuous pH for Bowie Canal at BoC-1

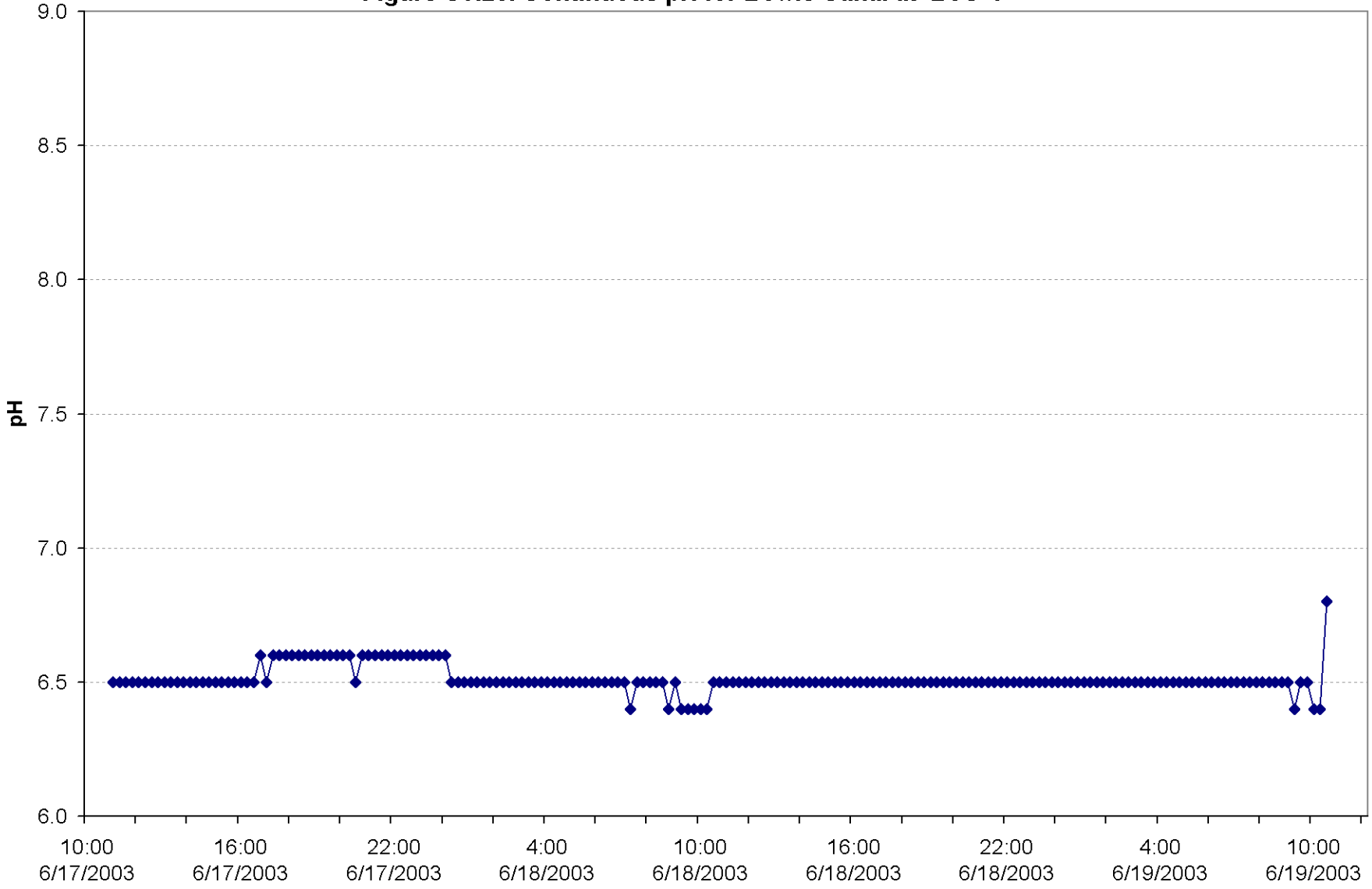


Figure C3.27. Continuous Specific Conductivity for Bowie Canal at BoC-1

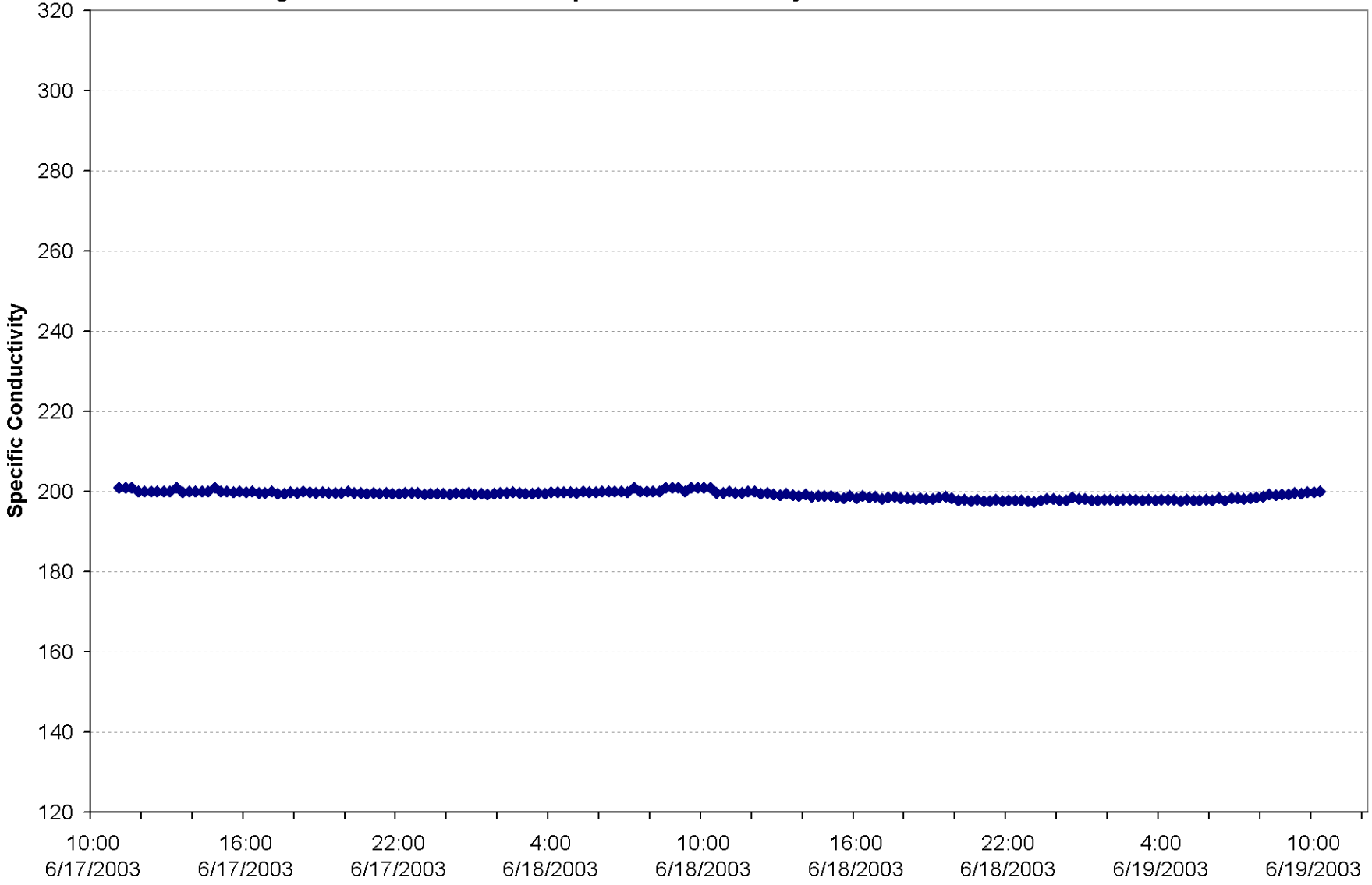
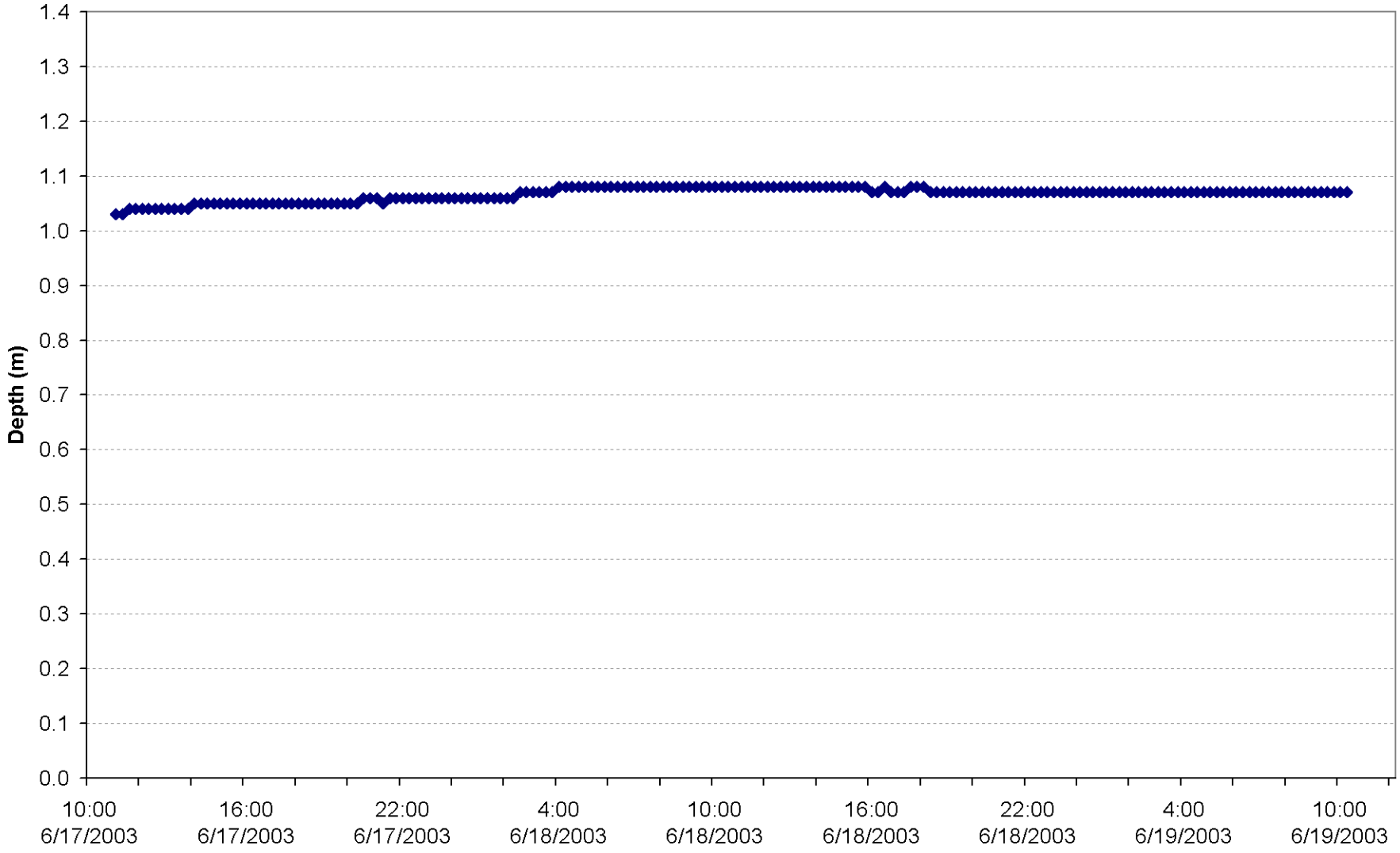


Figure C3.28. Continuous Depth for Bowie Canal at BoC-1



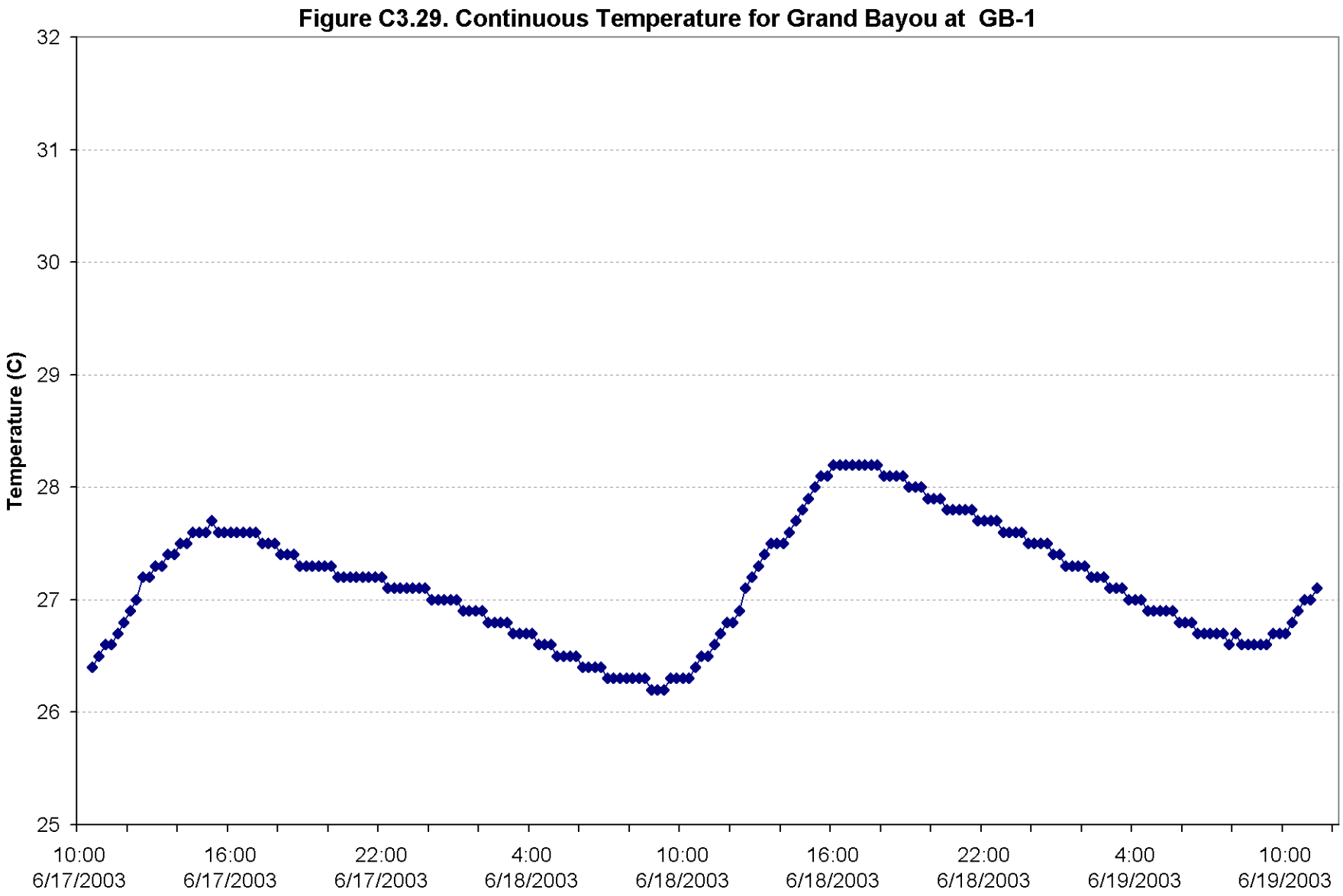


Figure C3.29. Continuous Temperature for Grand Bayou at GB-1
Temperature (C)
32
31
30
29
28
27
26
25
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

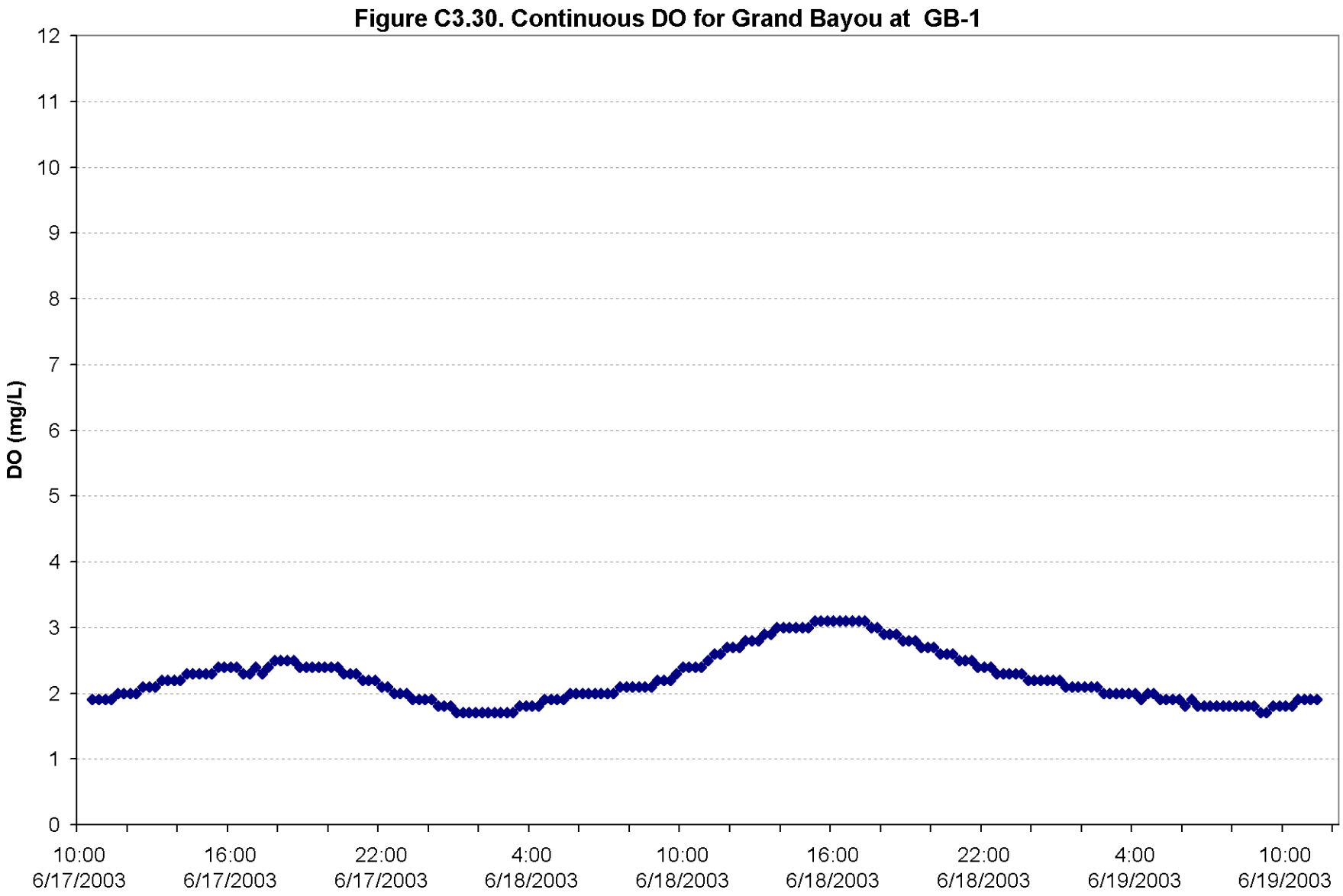


Figure C3.30. Continuous DO for Grand Bayou at GB-1
DO (mg/L)
12
11
10
9
8
7
6
5
4
3
2
1
0
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

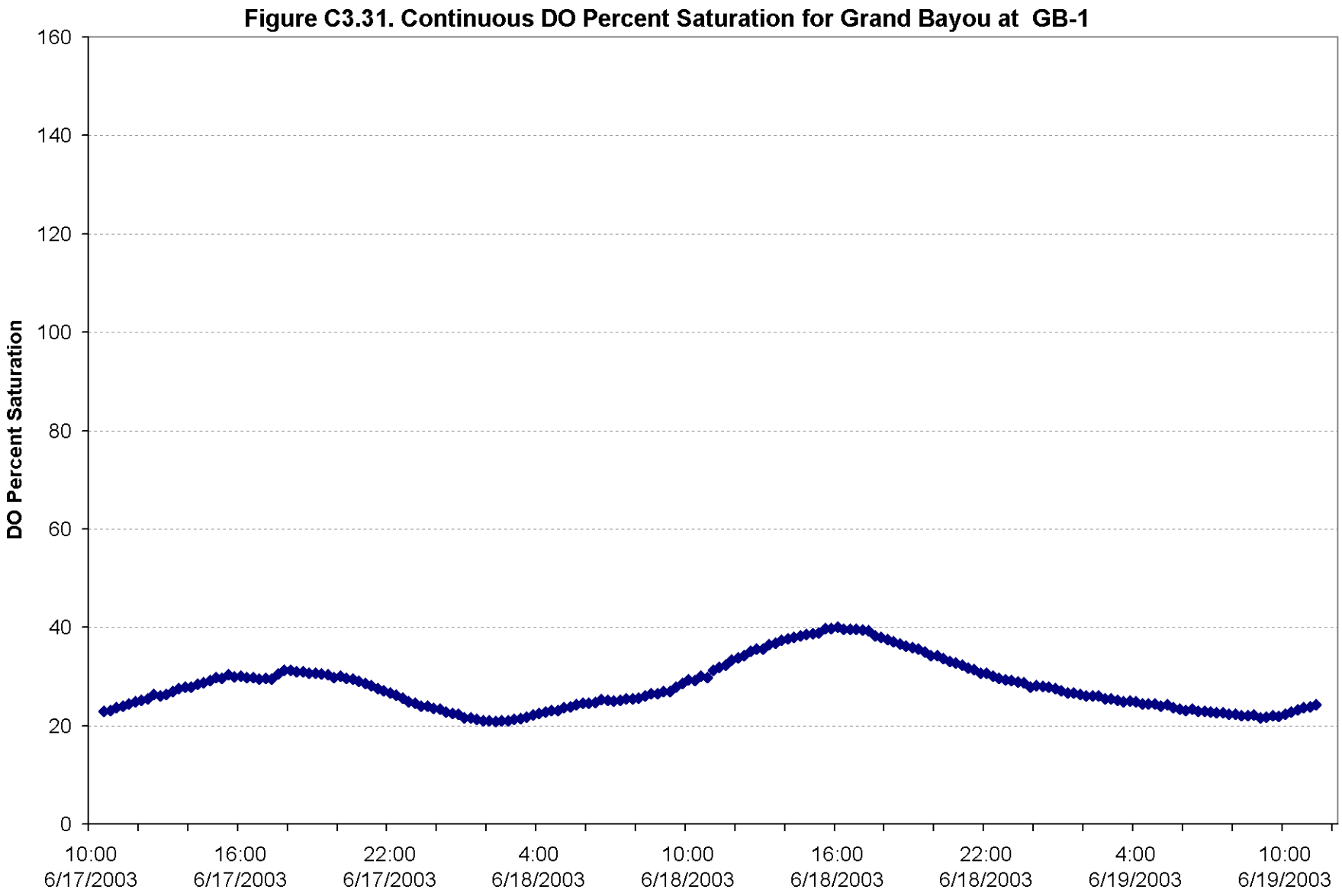
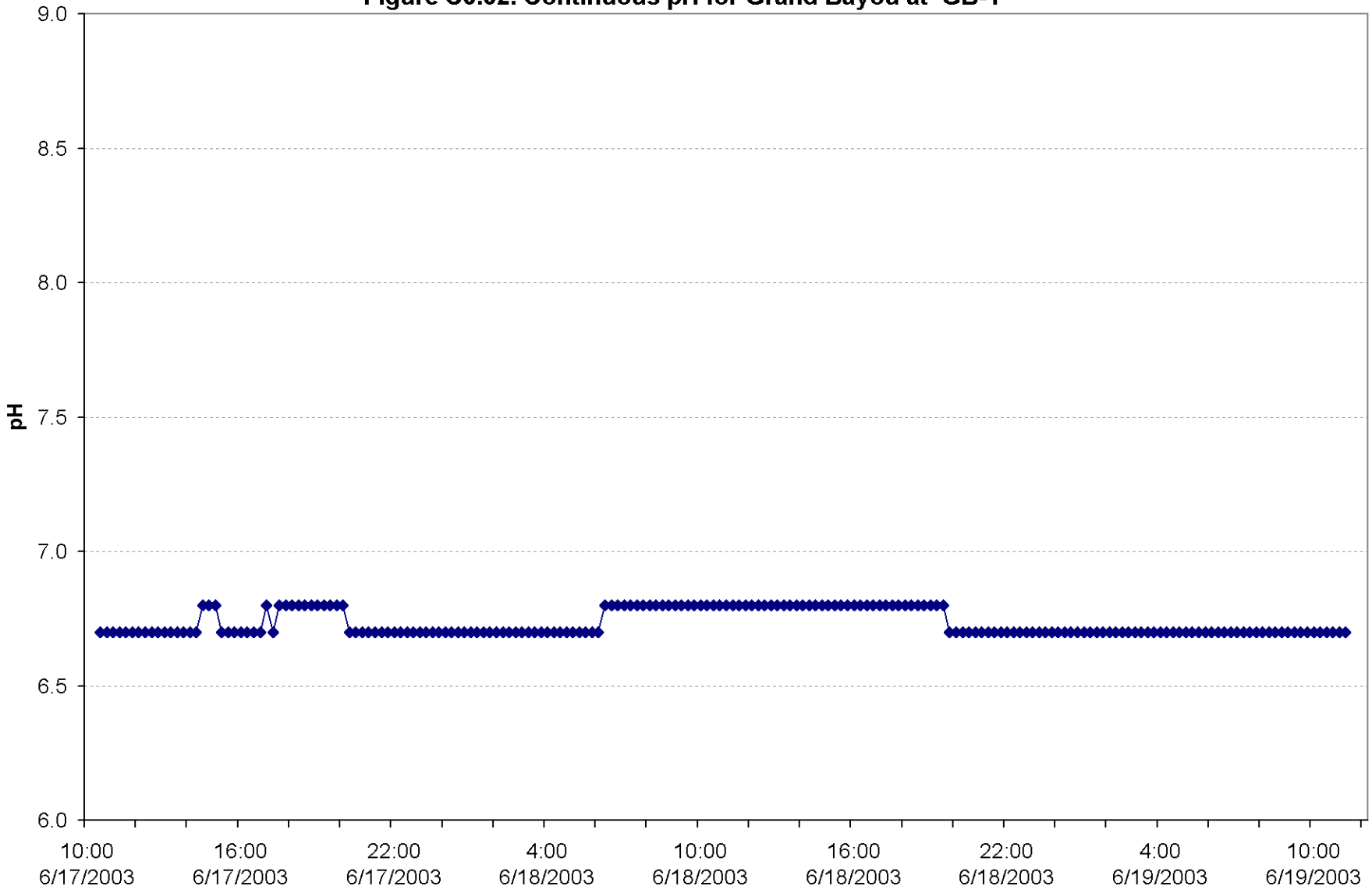


Figure C3.31. Continuous DO Percent Saturation for Grand Bayou at GB-1
DO Percent Saturation
160
140
120
100
80
60
40
20
0
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

Figure C3.32. Continuous pH for Grand Bayou at GB-1



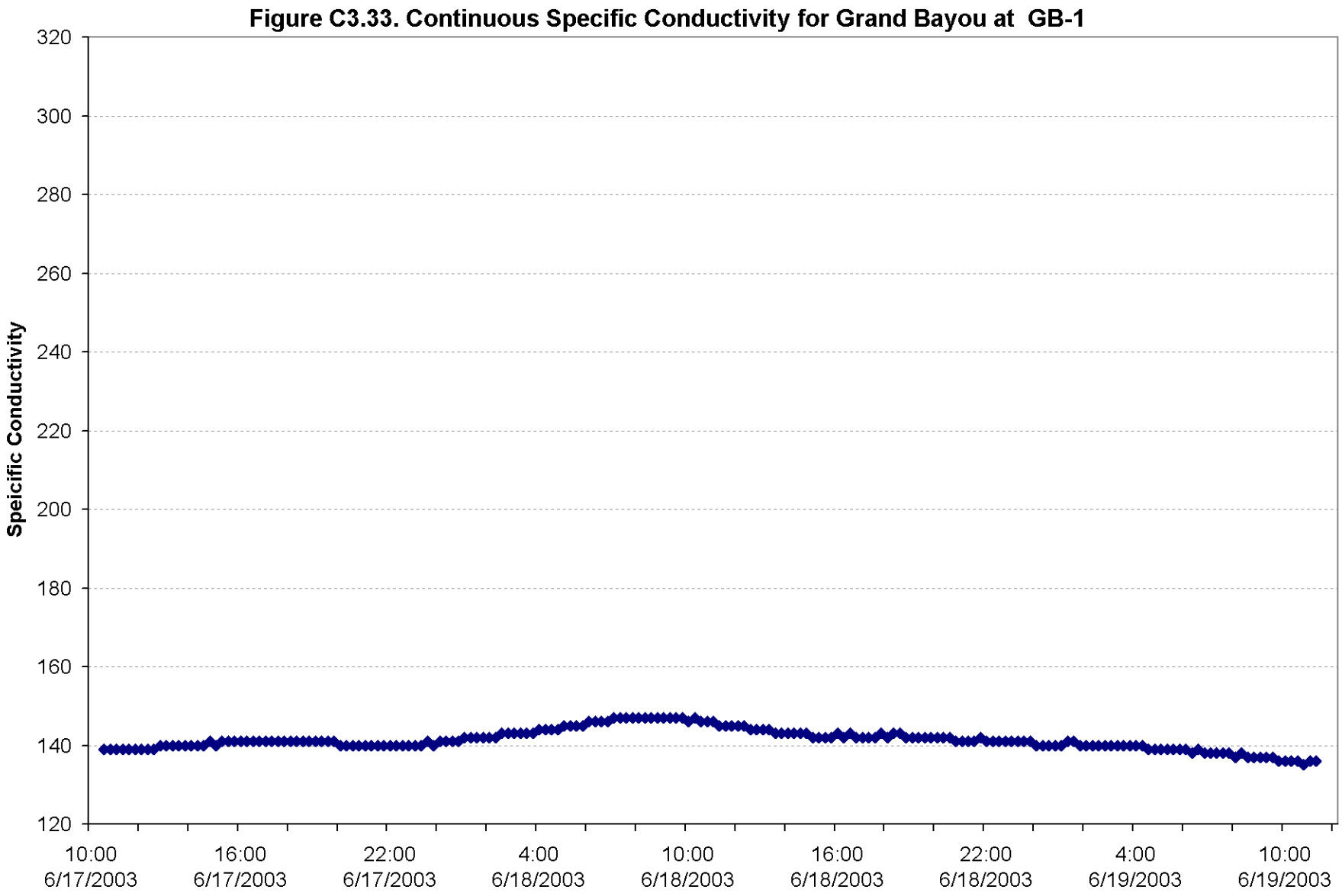


Figure C3.33. Continuous Specific Conductivity for Grand Bayou at GB-1
Speicific Conductivity
320
300
280
260
240
220
200
180
160
140
120
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

Figure C3.34. Continuous Depth for Grand Bayou at GB-1

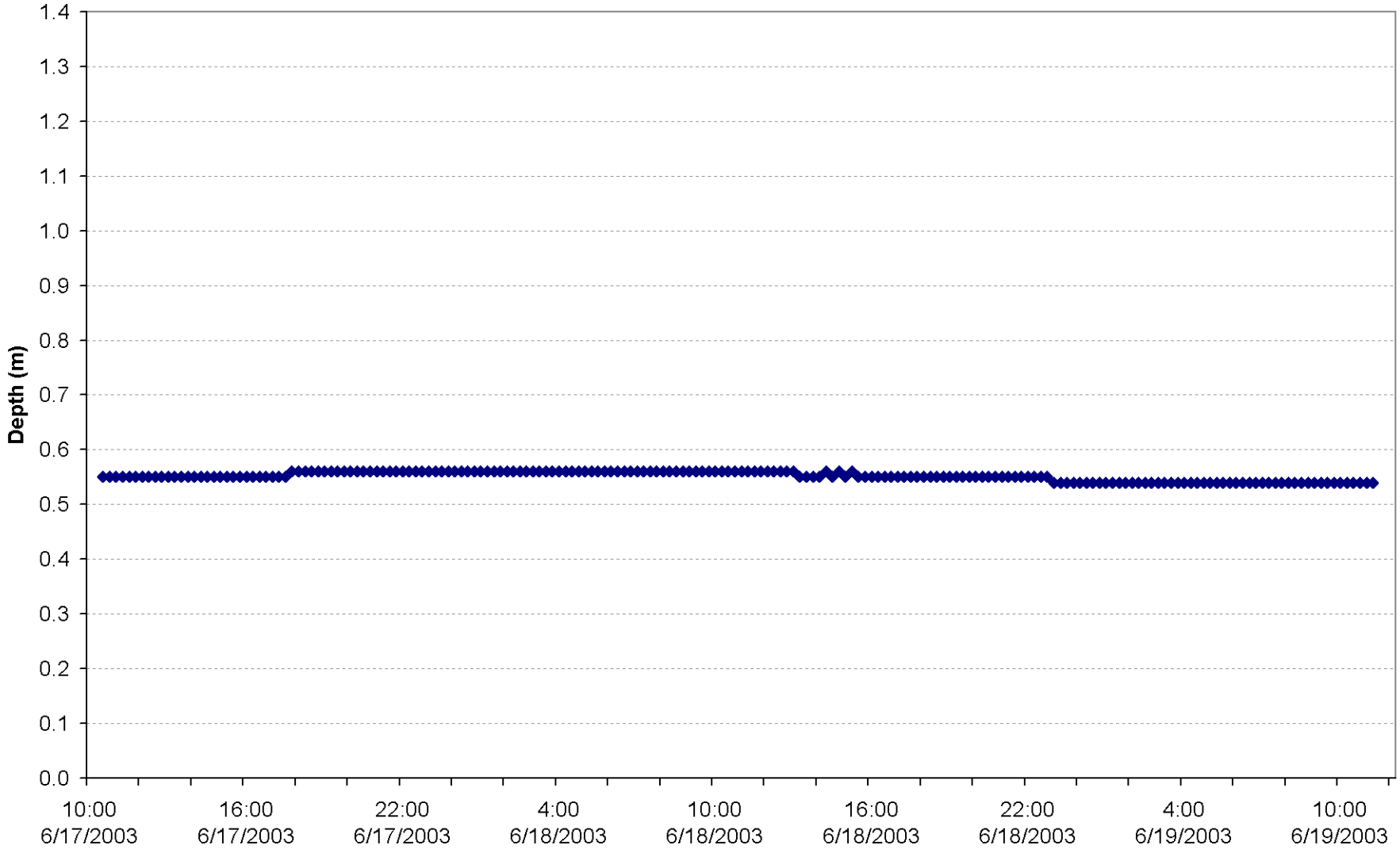


Figure C3.35. Continuous Temperature for Grand Bayou at GB-4

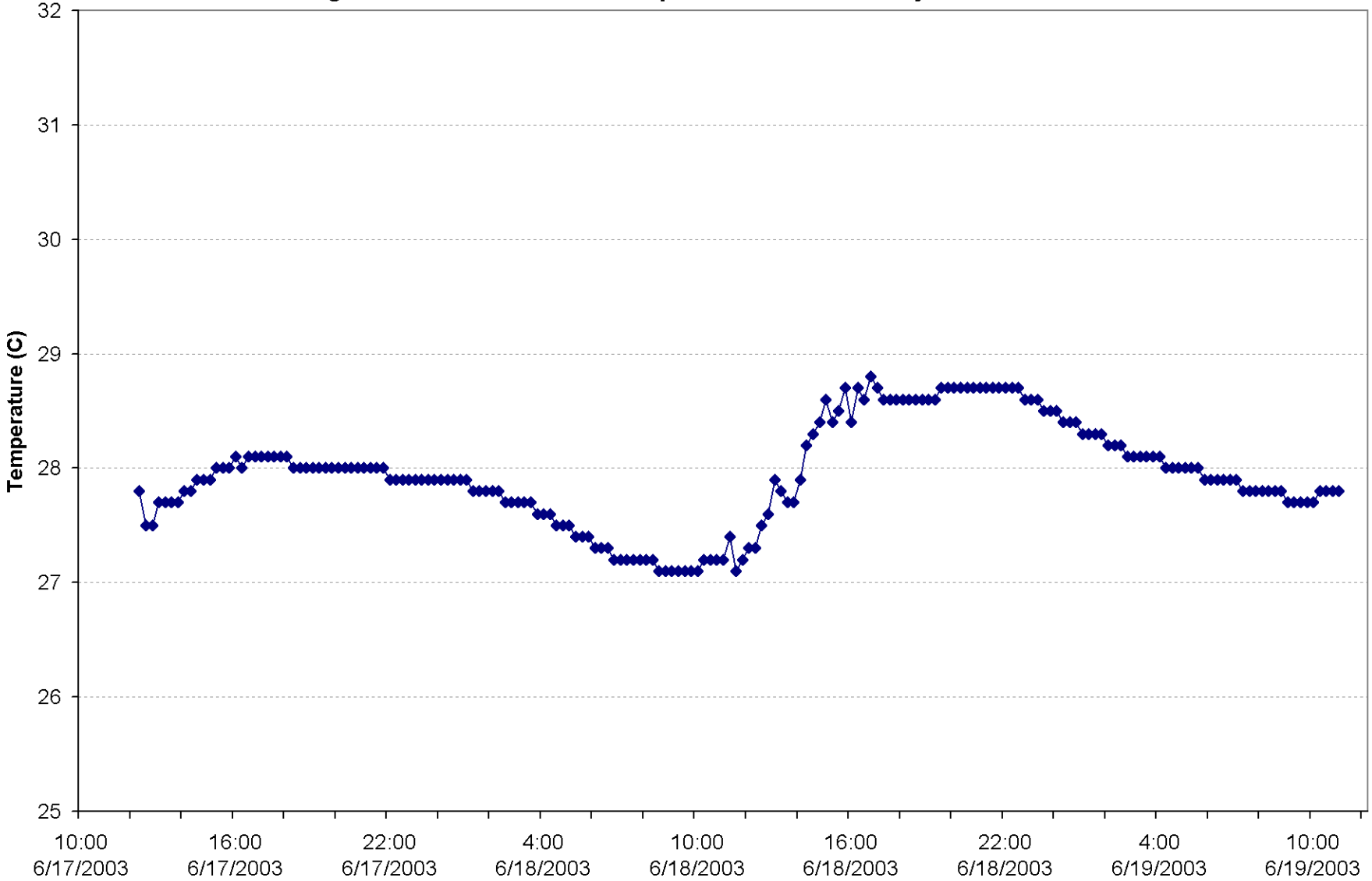


Figure C3.36. Continuous DO for Grand Bayou at GB-4

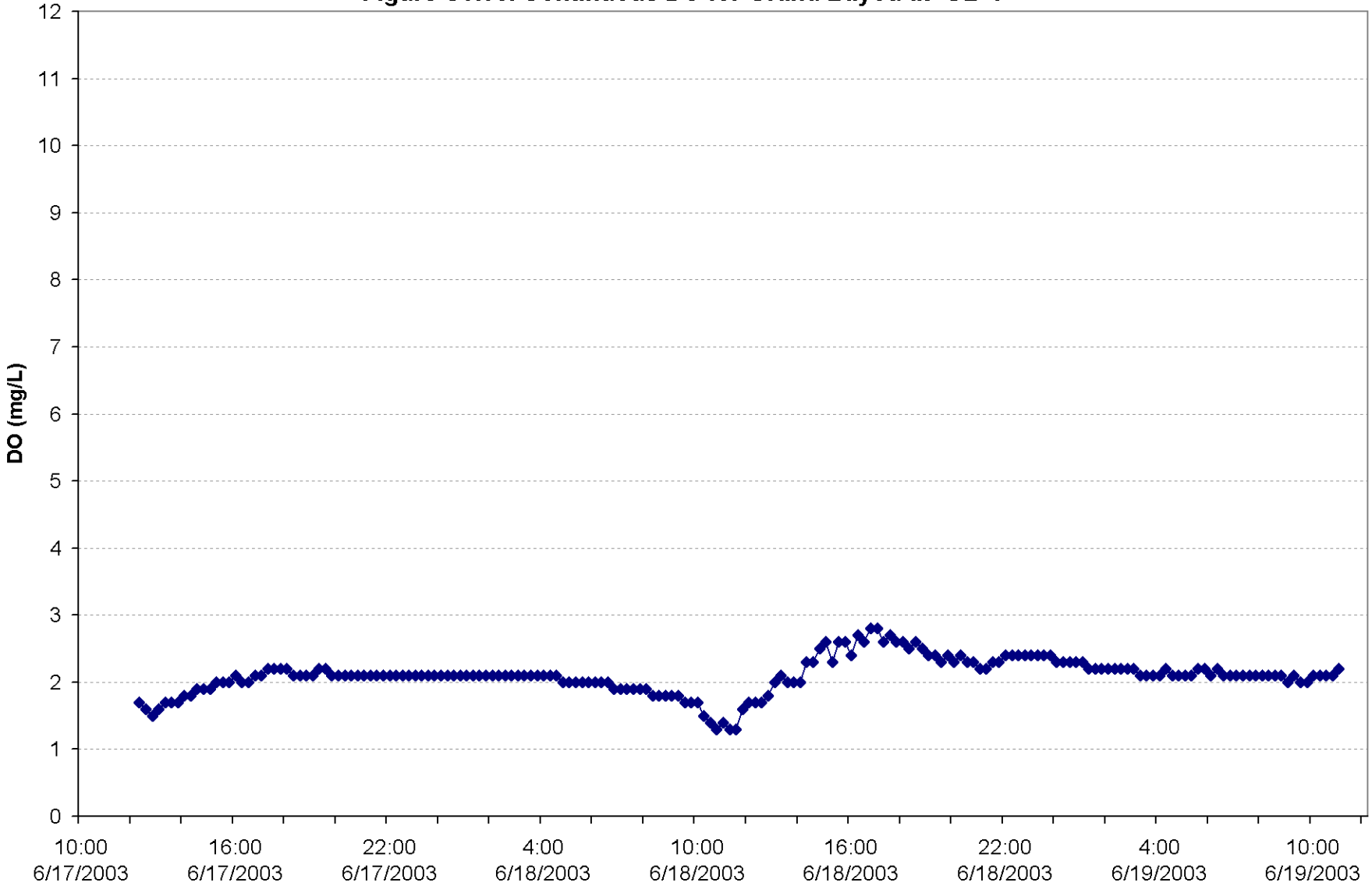


Figure C3.37. Continuous DO Percent Saturation for Grand Bayou at GB-4

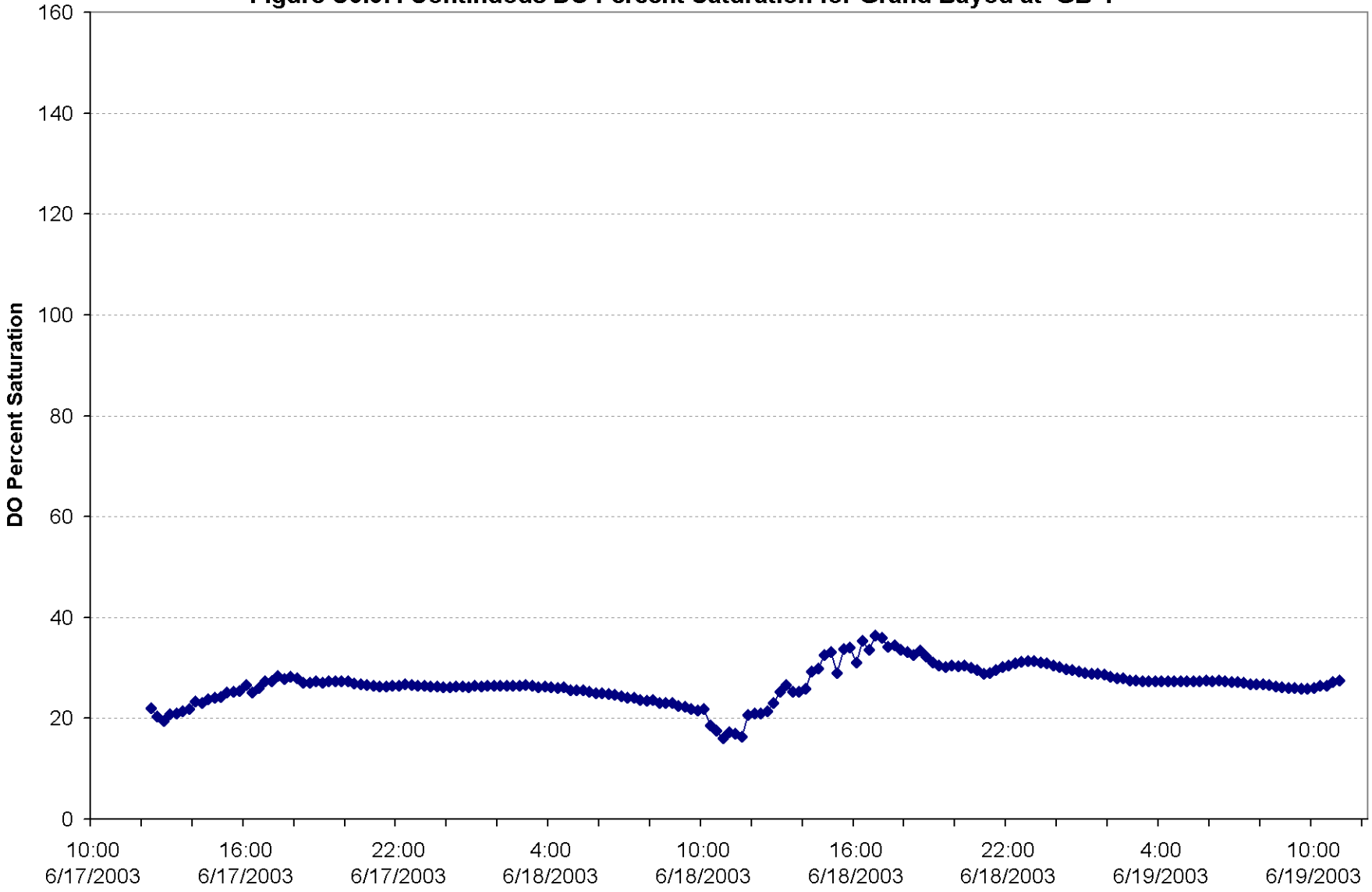
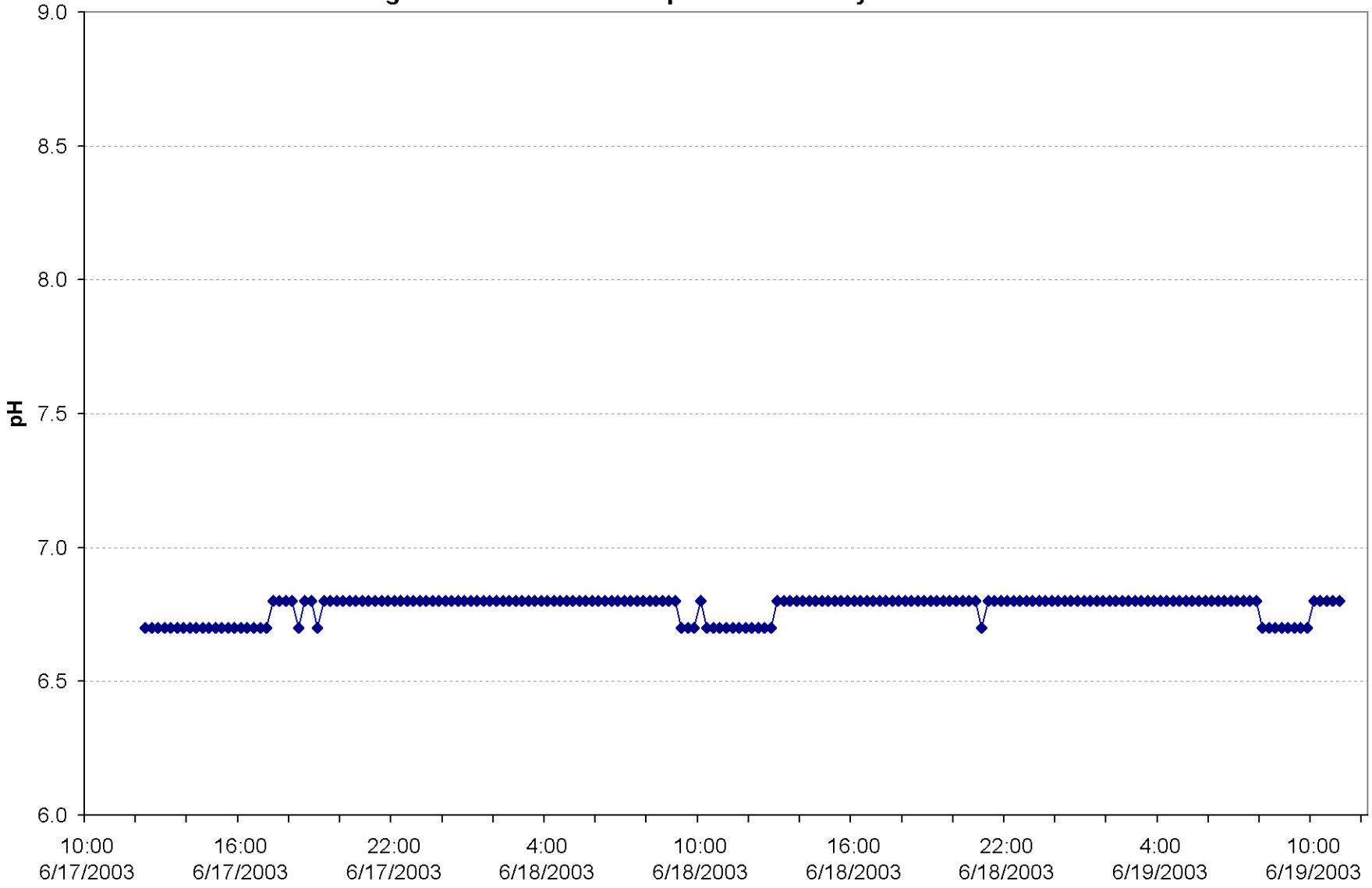


Figure C3.38. Continuous pH for Grand Bayou at GB-4



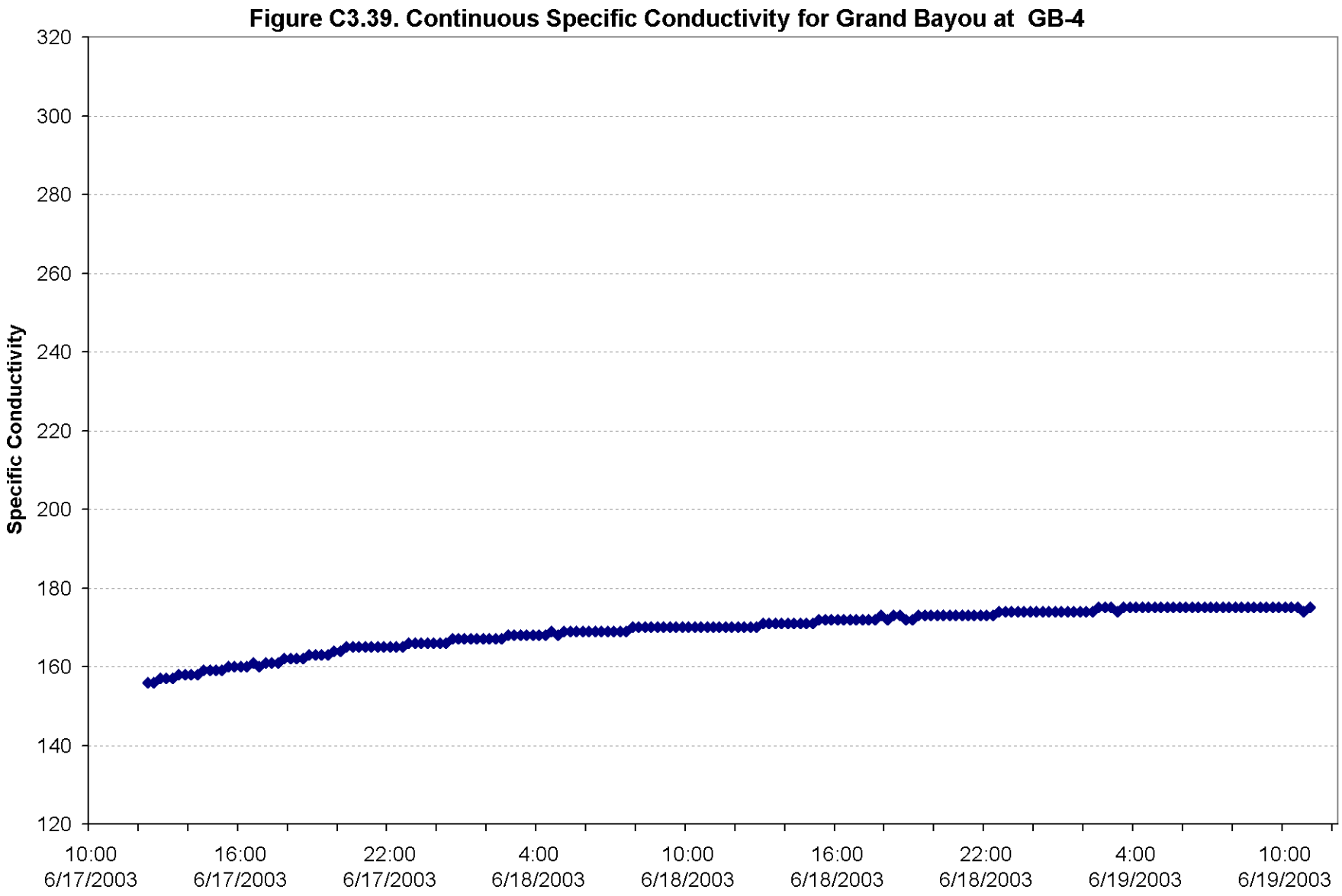


Figure C3.39. Continuous Specific Conductivity for Grand Bayou at GB-4
Specific Conductivity
320
300
280
260
240
220
200
180
160
140
120
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

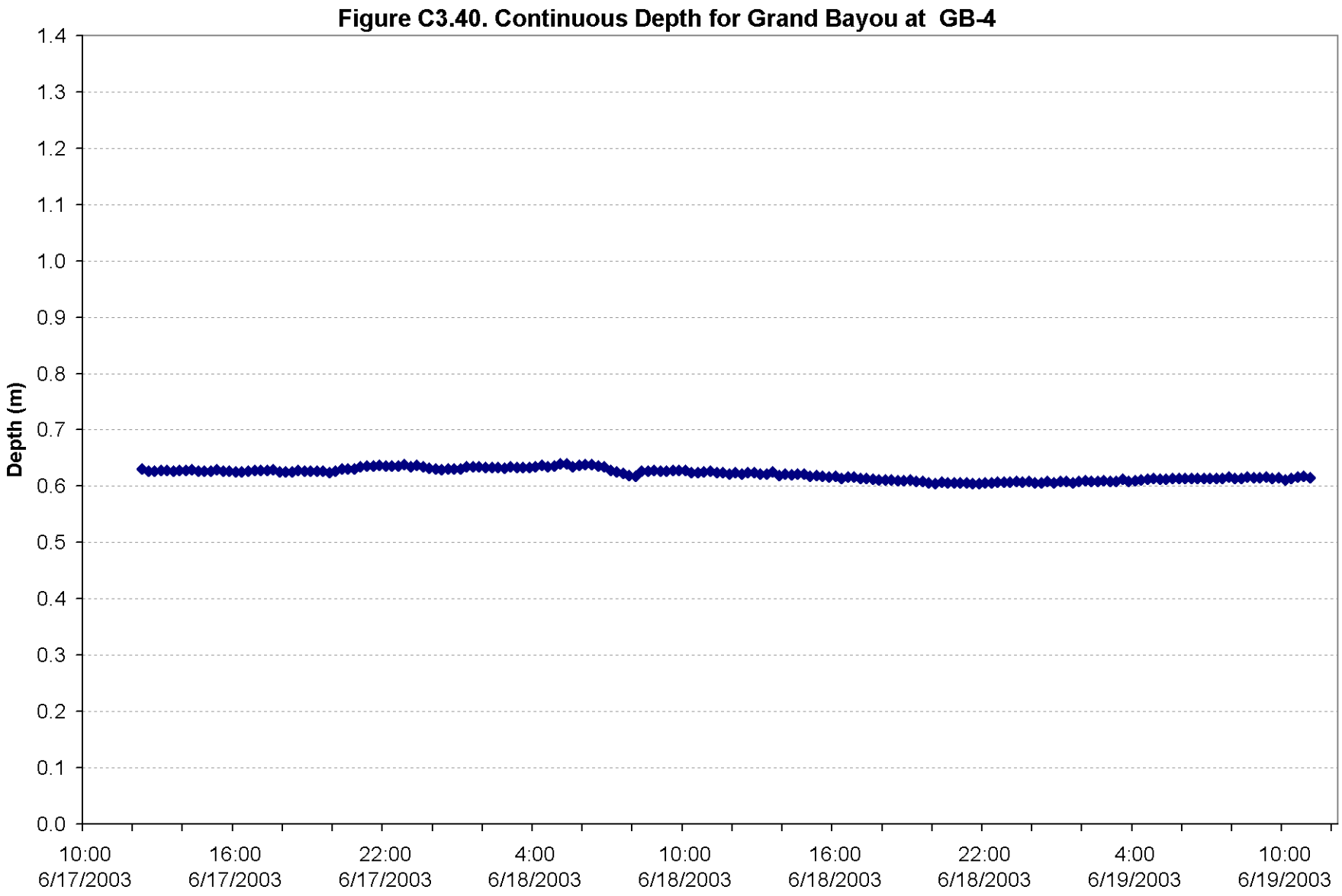


Figure C3.40. Continuous Depth for Grand Bayou at GB-4
Depth (m)
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

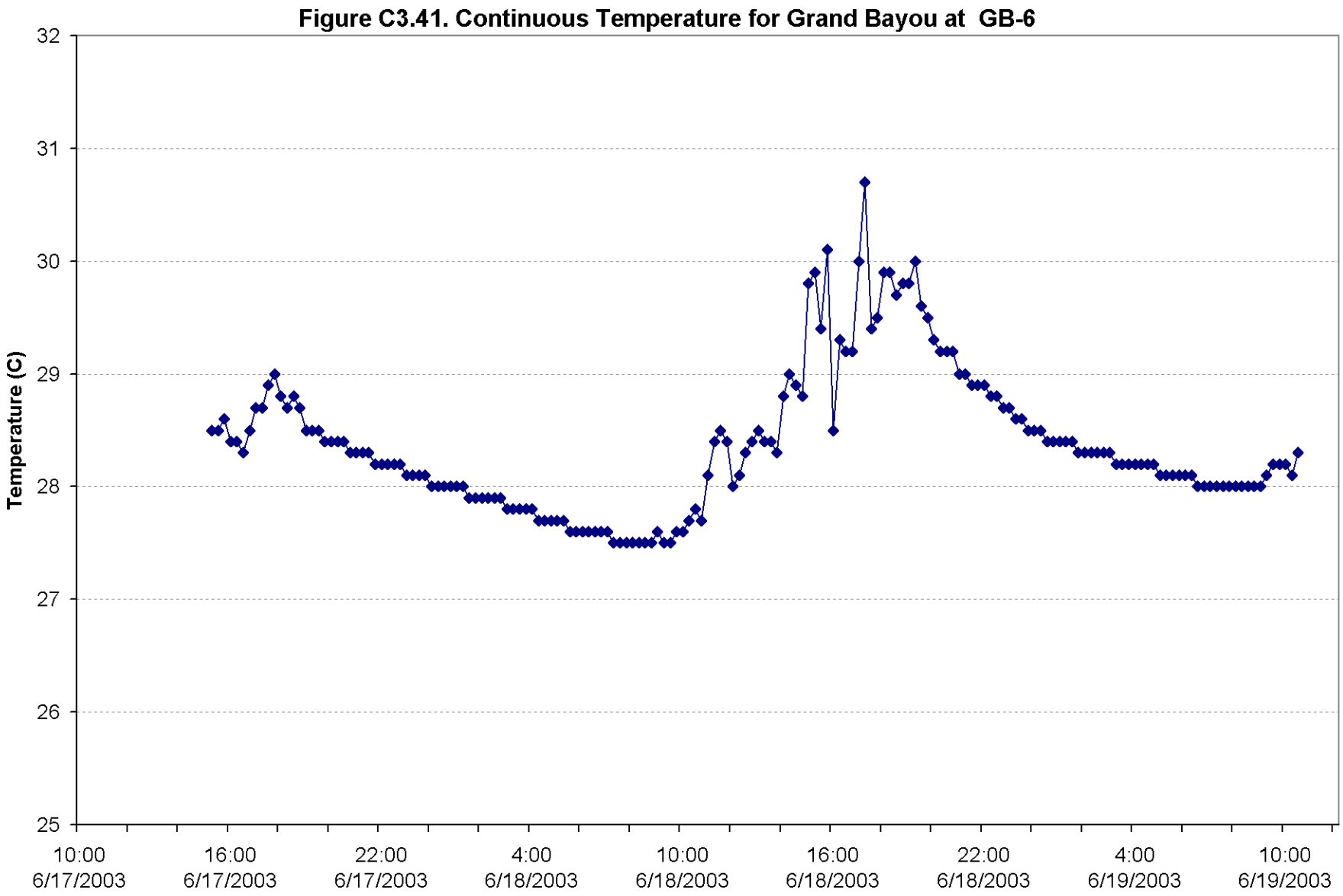


Figure C3.41. Continuous Temperature for Grand Bayou at GB-6
Temperature (C)
32
31
30
29
28
27
26
25
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

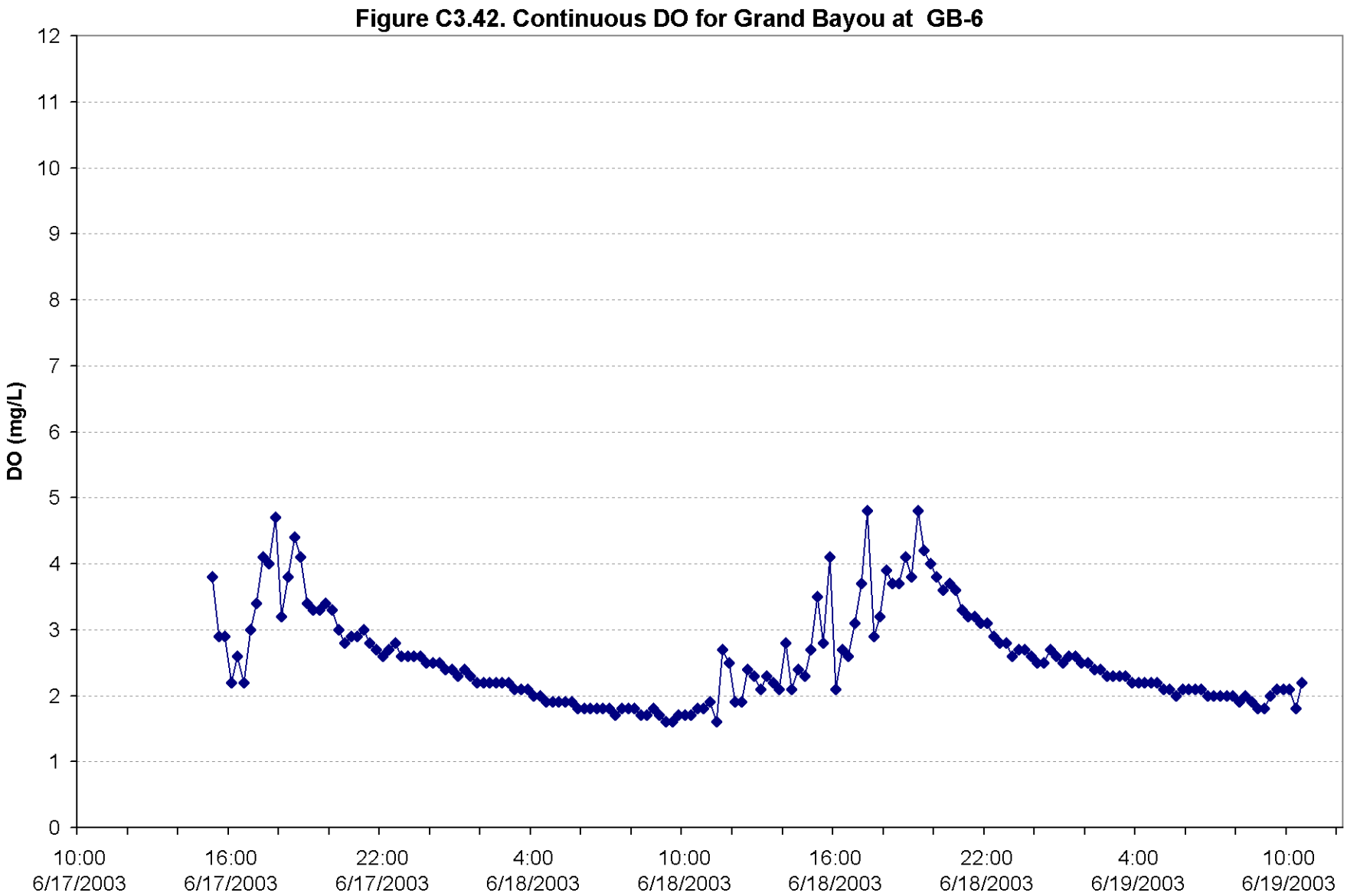


Figure C3.42. Continuous DO for Grand Bayou at GB-6
DO (mg/L)
12
11
10
9
8
7
6
5
4
3
2
1
0
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

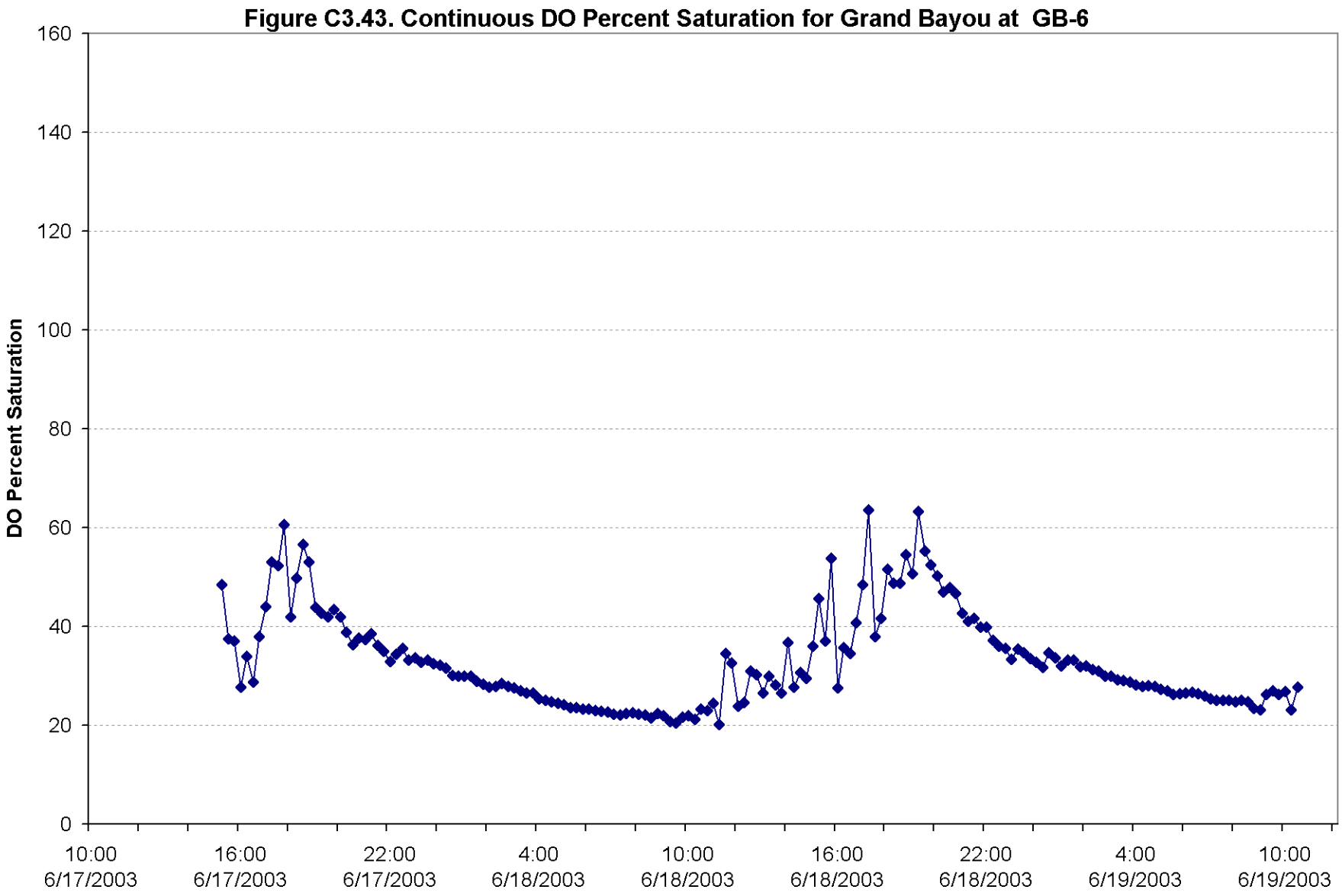


Figure C3.43. Continuous DO Percent Saturation for Grand Bayou at GB-6
DO Percent Saturation
160
140
120
100
80
60
40
20
0
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

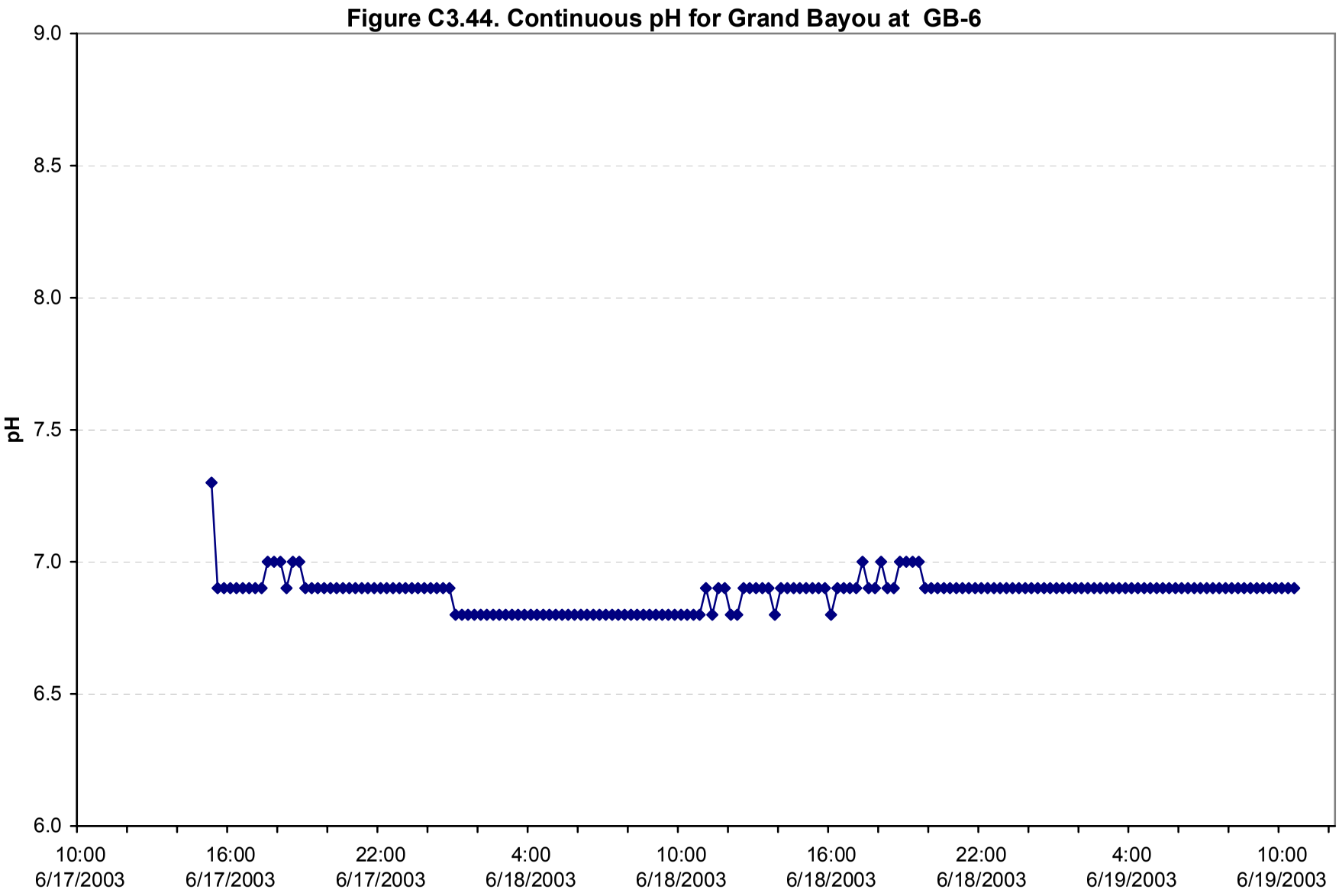


Figure C3.44. Continuous pH for Grand Bayou at GB-6
pH
9.0
8.5
8.0
7.5
7.0
6.5
6.0
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

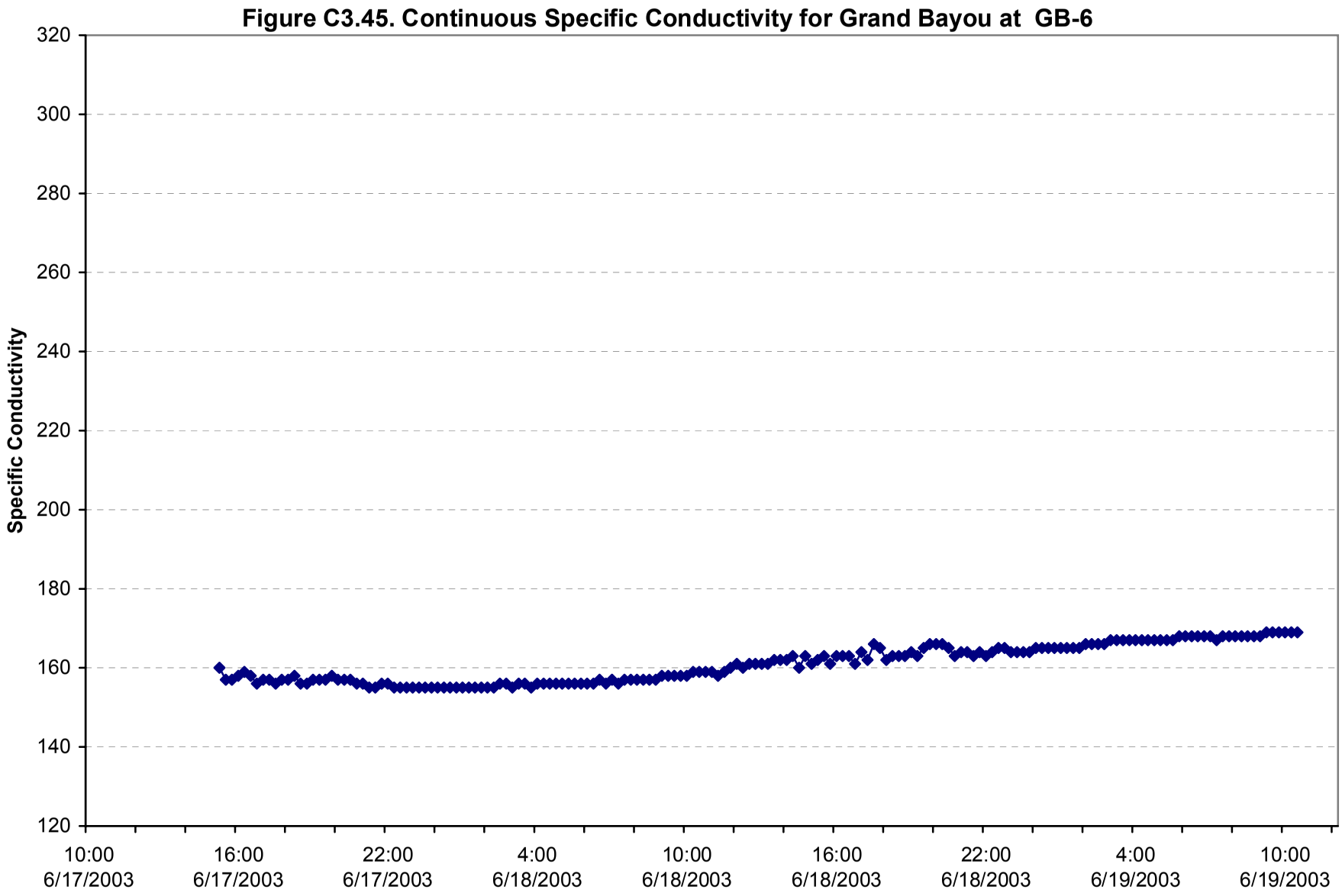


Figure C3.45. Continuous Specific Conductivity for Grand Bayou at GB-6
Specific Conductivity
320
300
280
260
240
220
200
180
160
140
120
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

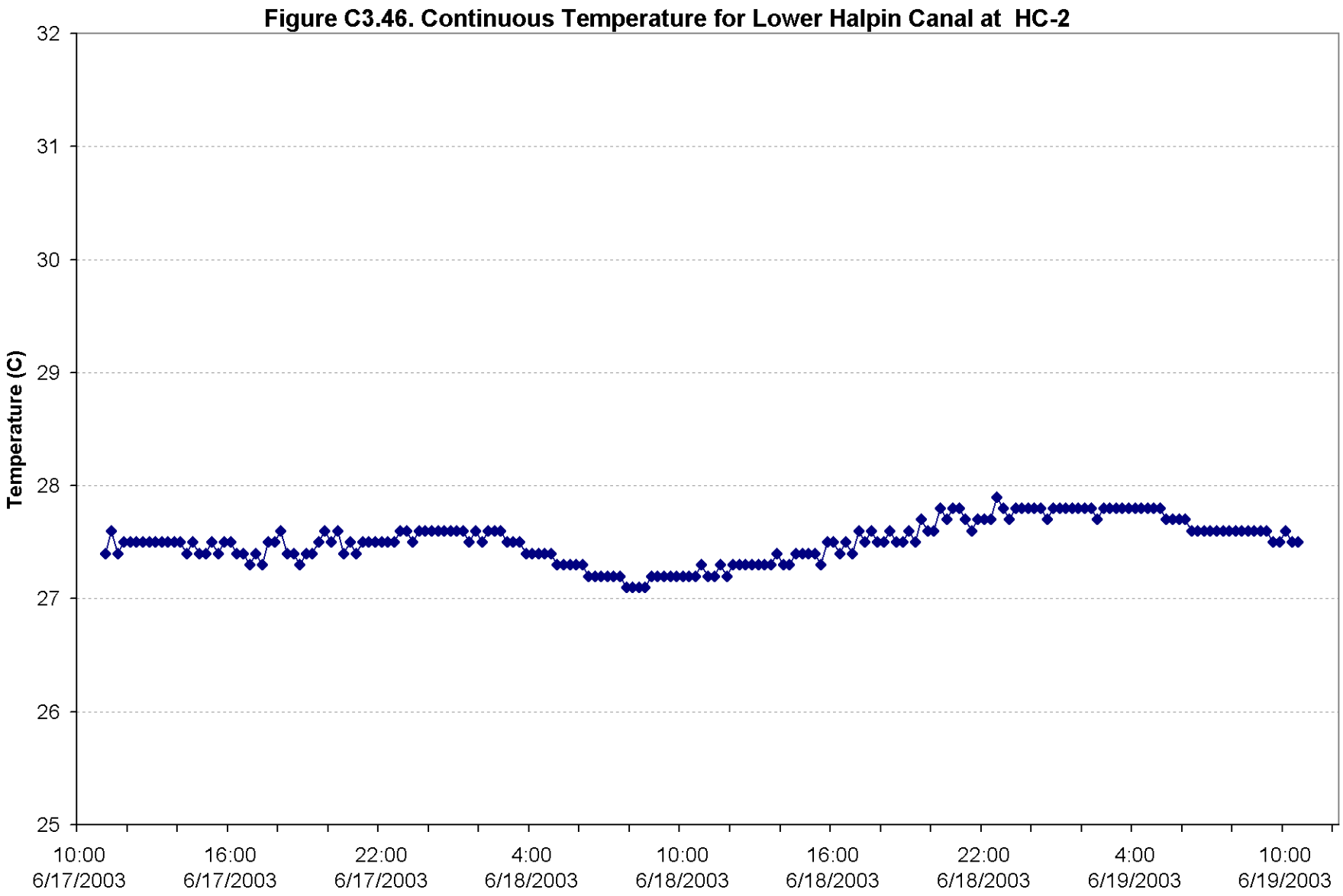
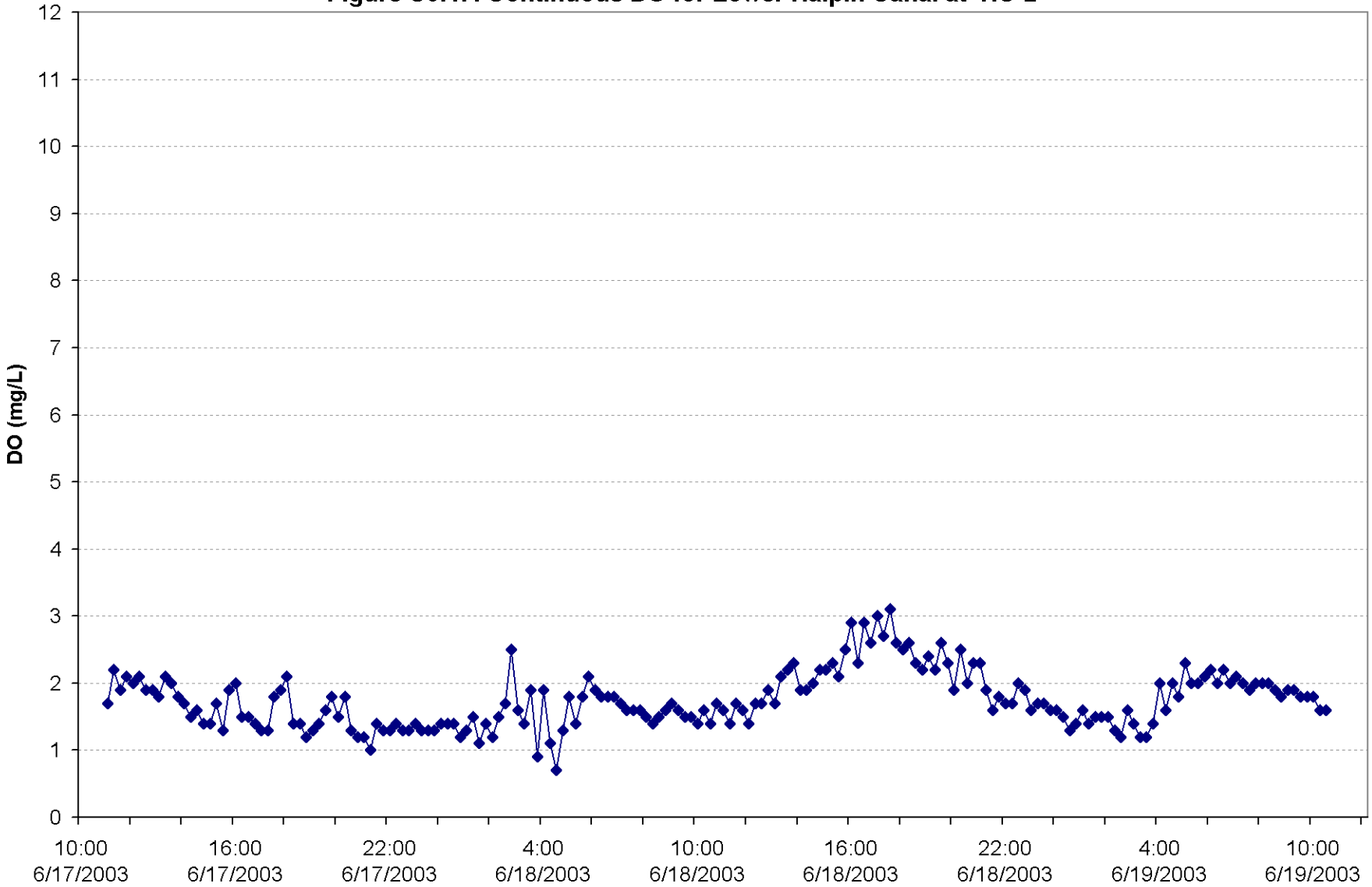


Figure C3.46. Continuous Temperature for Lower Halpin Canal at HC-2
Temperature (C)
32
31
30
29
28
27
26
25
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

Figure C3.47. Continuous DO for Lower Halpin Canal at HC-2



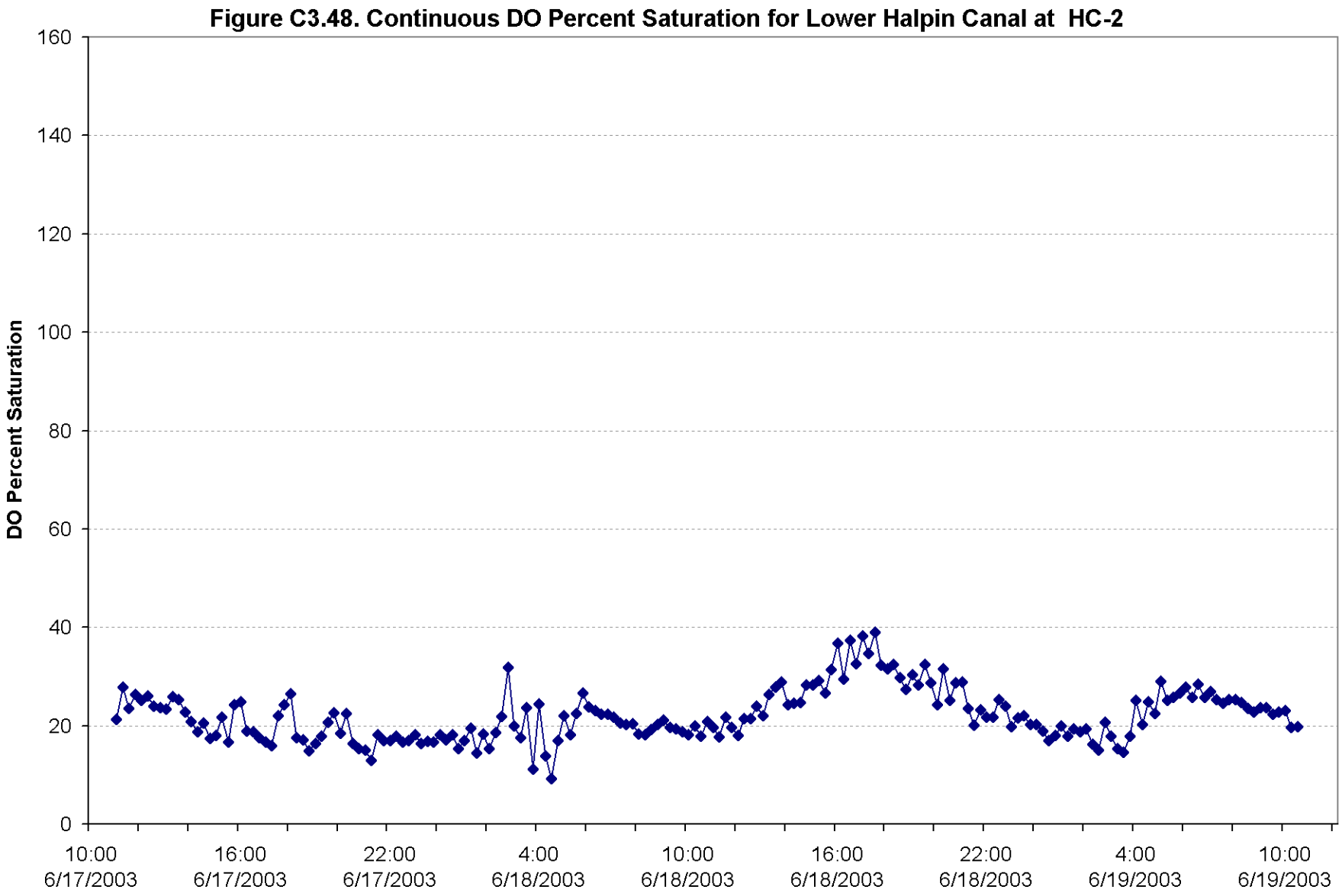


Figure C3.48. Continuous DO Percent Saturation for Lower Halpin Canal at HC-2
DO Percent Saturation
160
140
120
100
80
60
40
20
0
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

Figure C3.49. Continuous pH for Lower Halpin Canal at HC-2

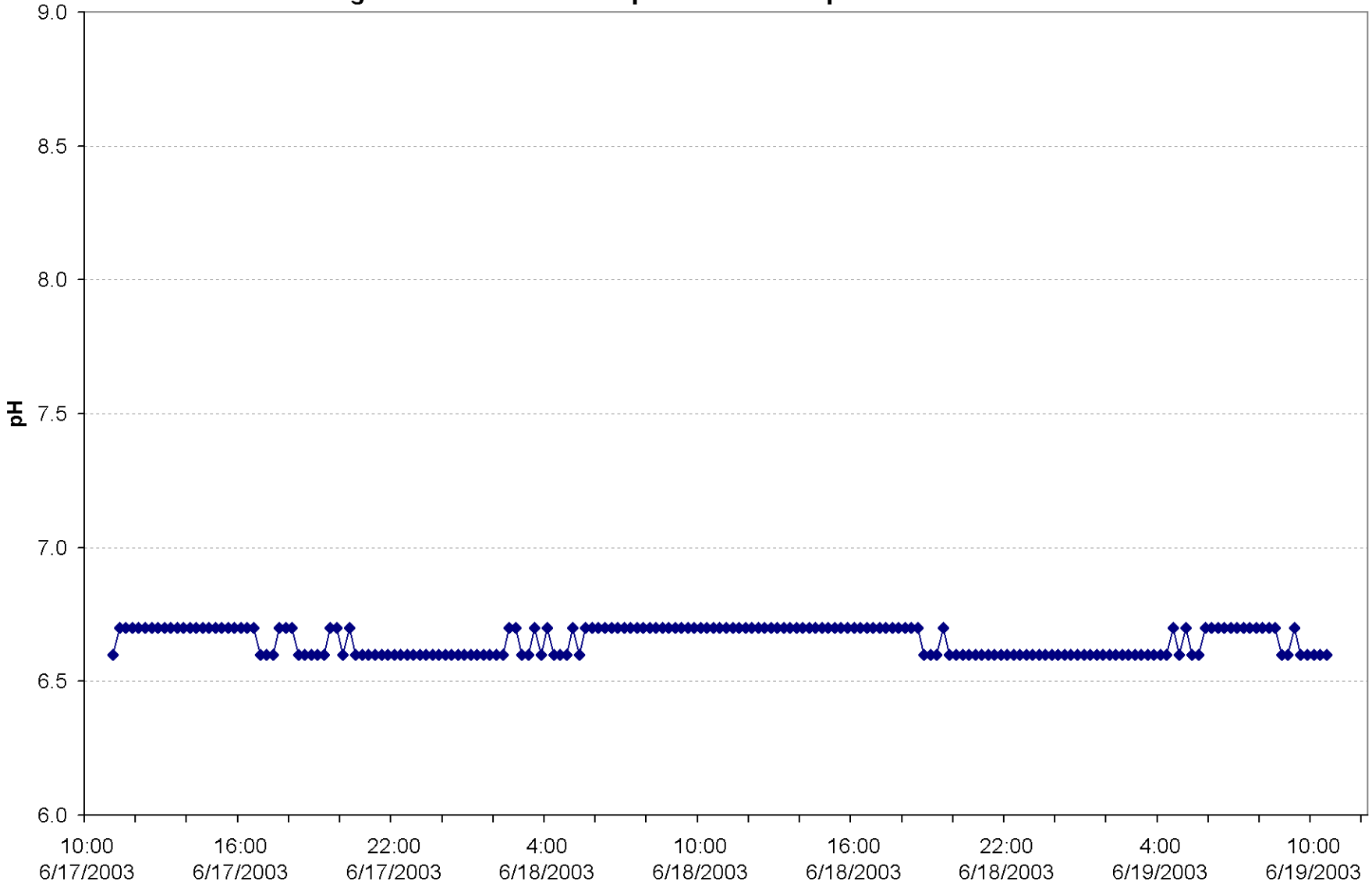


Figure C3.50. Continuous Specific Conductivity for Lower Halpin Canal at HC-2

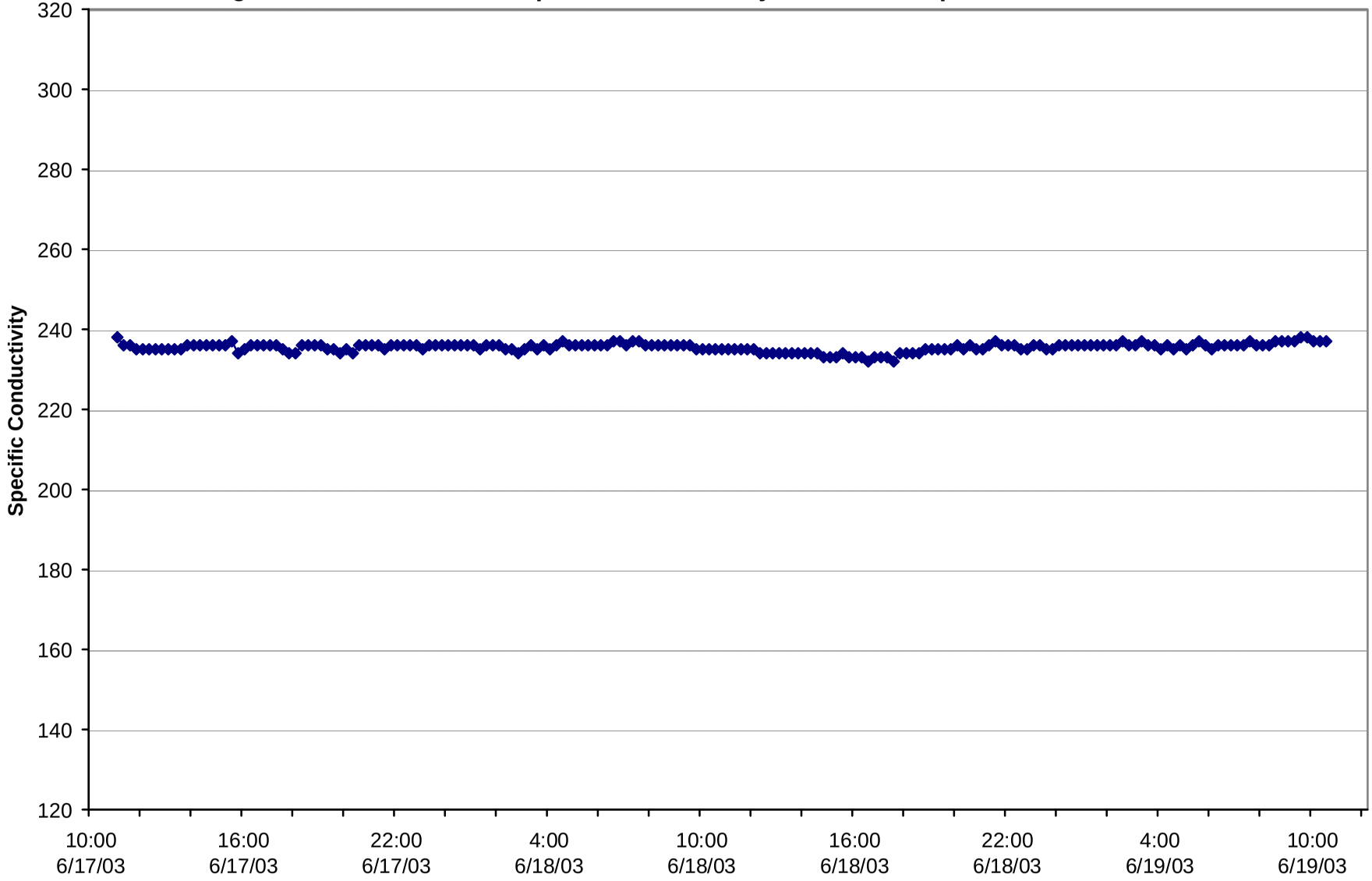


Figure C3.51. Continuous Temperature for Lake Boeuf at LB-1

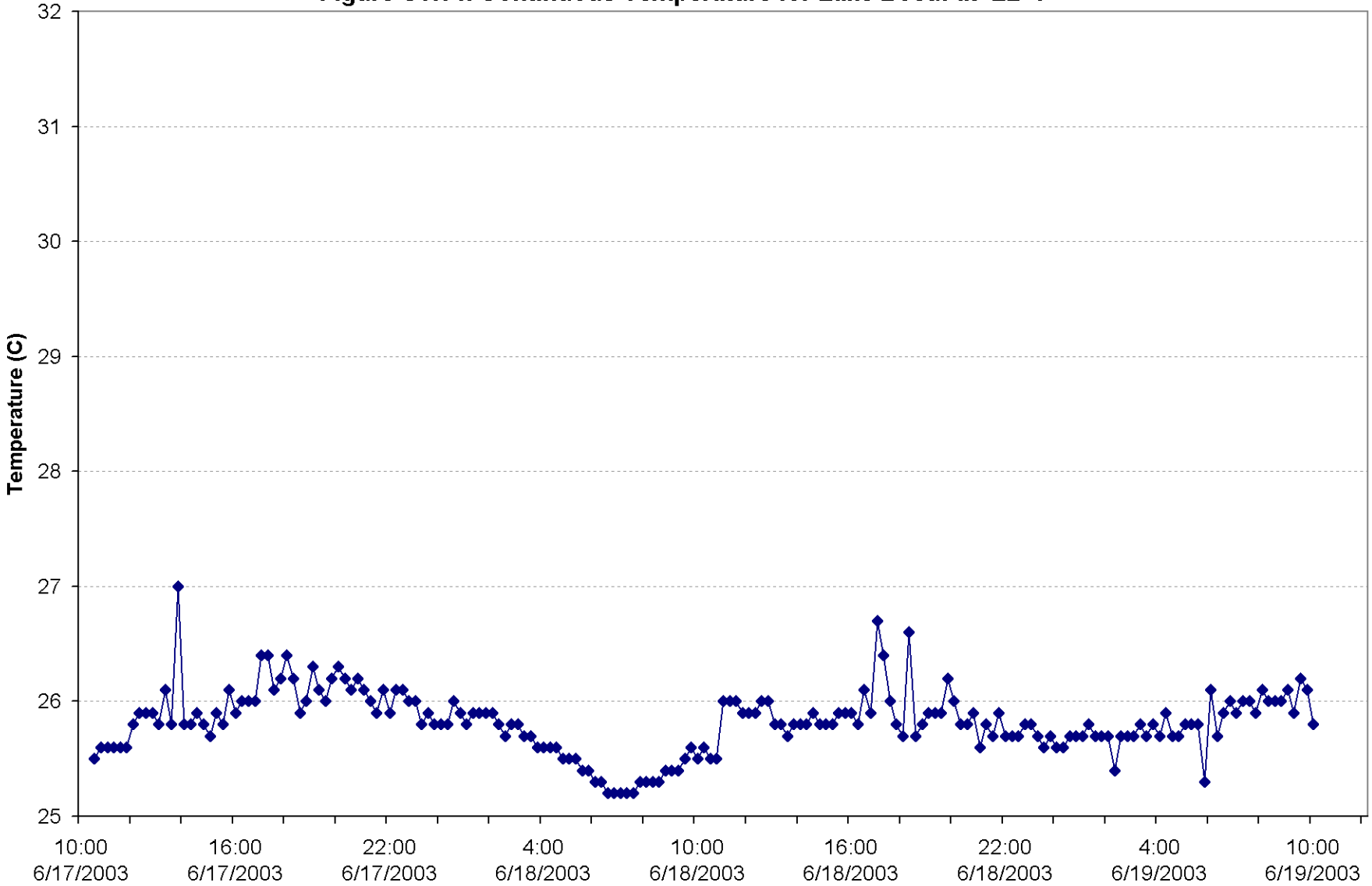


Figure C3.52. Continuous DO for Lake Boeuf at LB-1

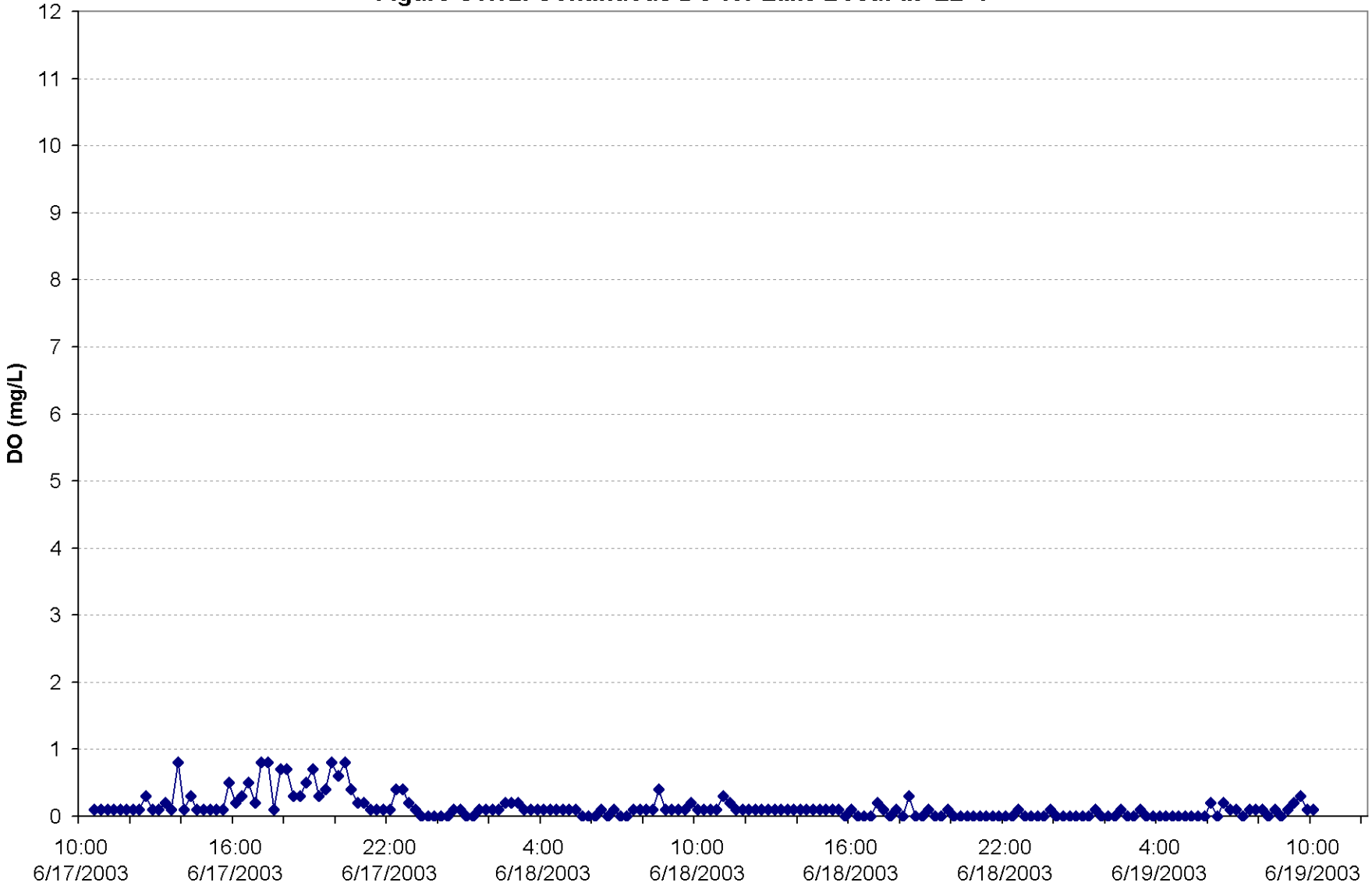


Figure C3.53. Continuous DO Percent Saturation for Lake Boeuf at LB-1

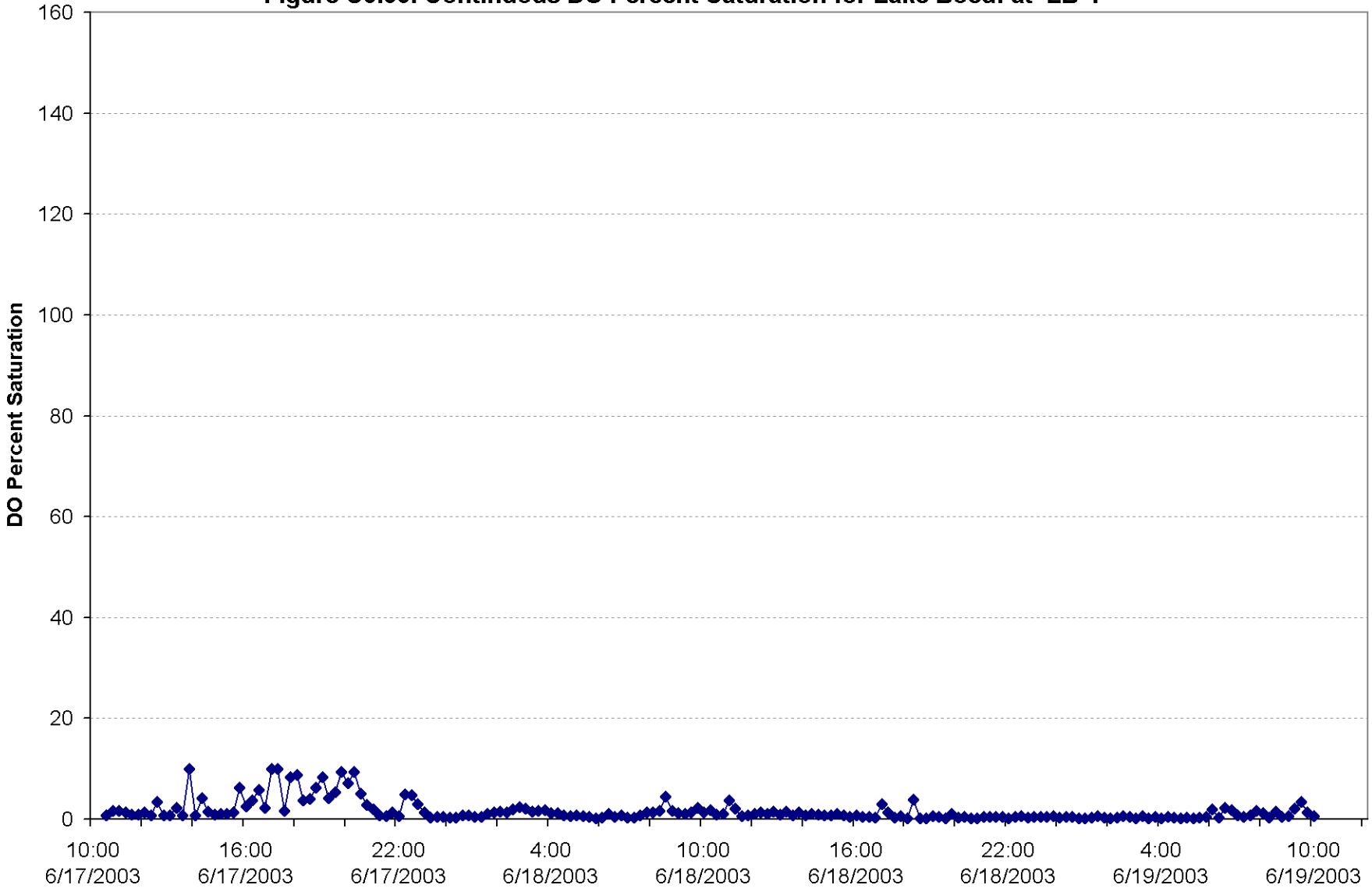


Figure C3.54. Continuous pH for Lake Boeuf at LB-1

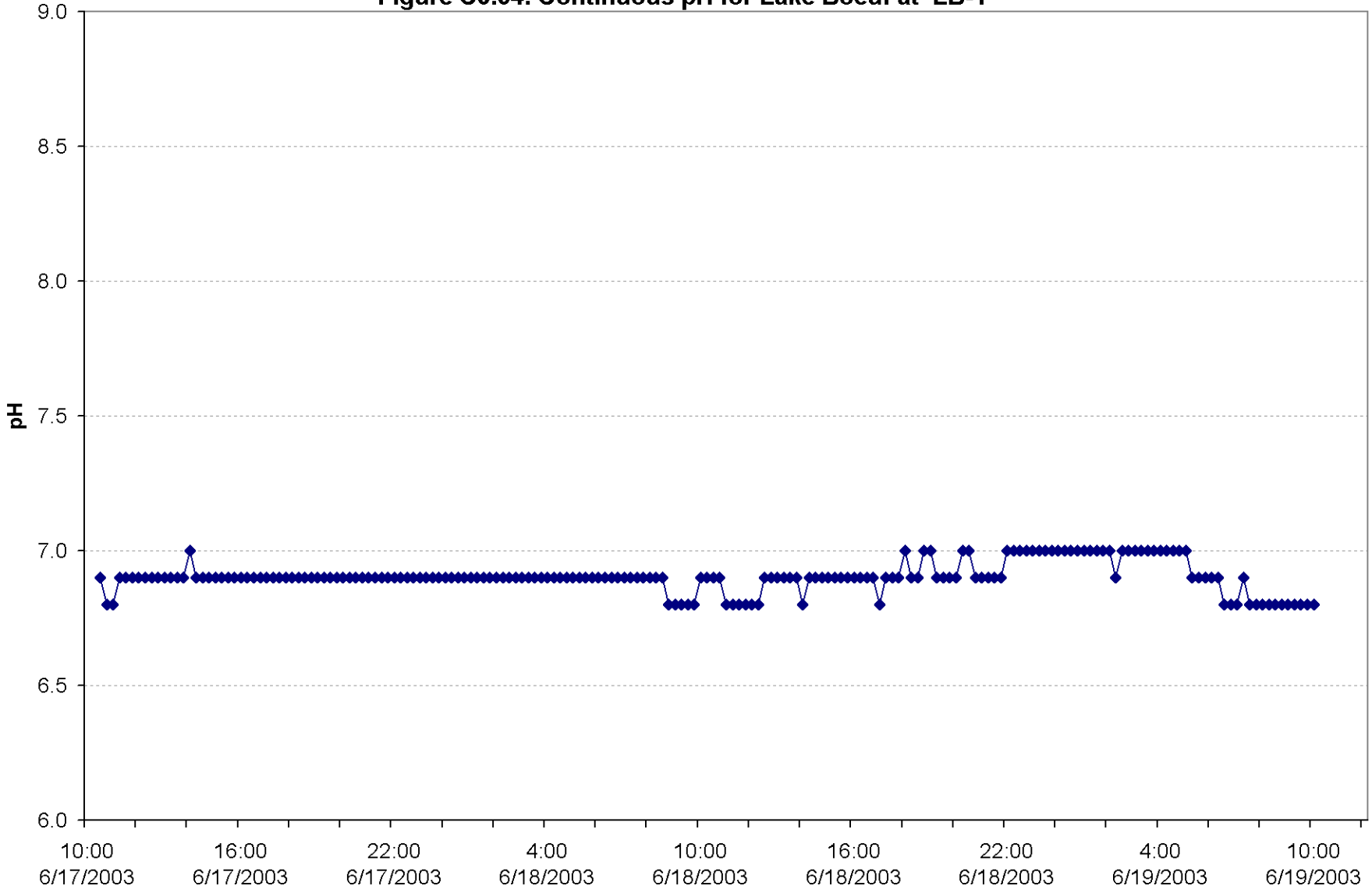


Figure C3.55. Continuous Specific Conductivity for Lake Boeuf at LB-1

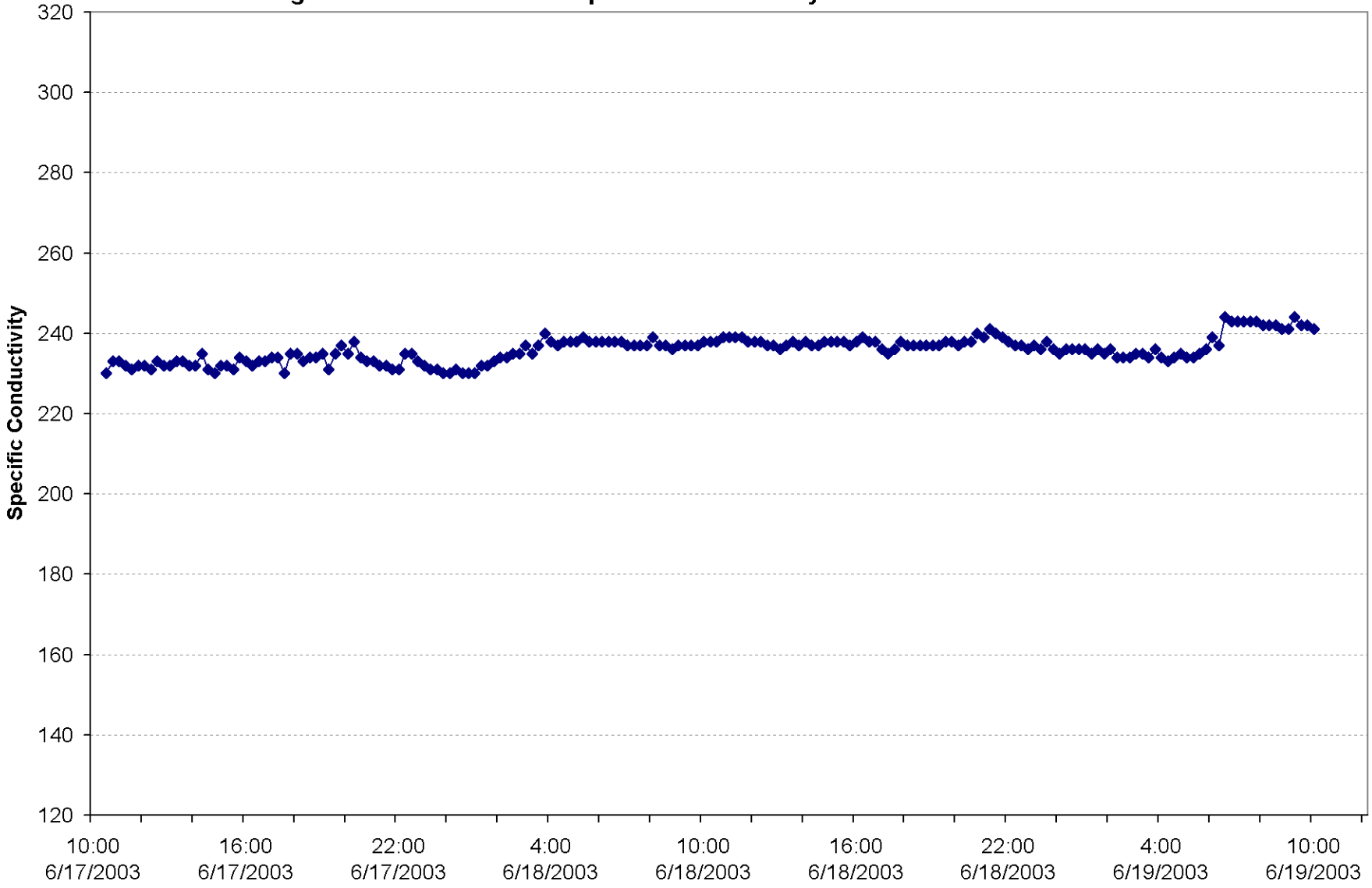


Figure C3.56. Continuous Temperature for Lake des Allemands at LDA-1

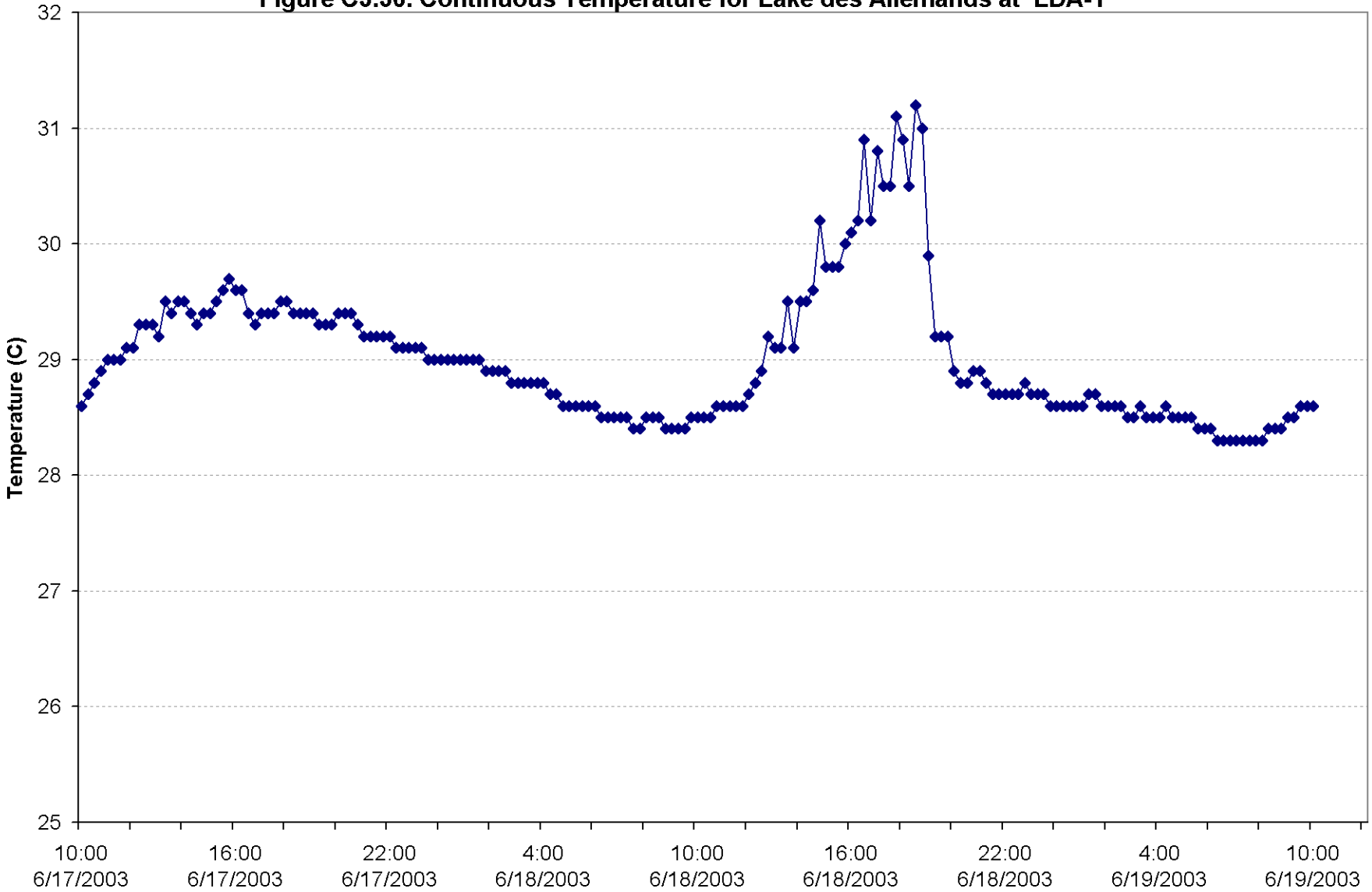


Figure C3.57. Continuous DO for Lake des Allemands at LDA-1

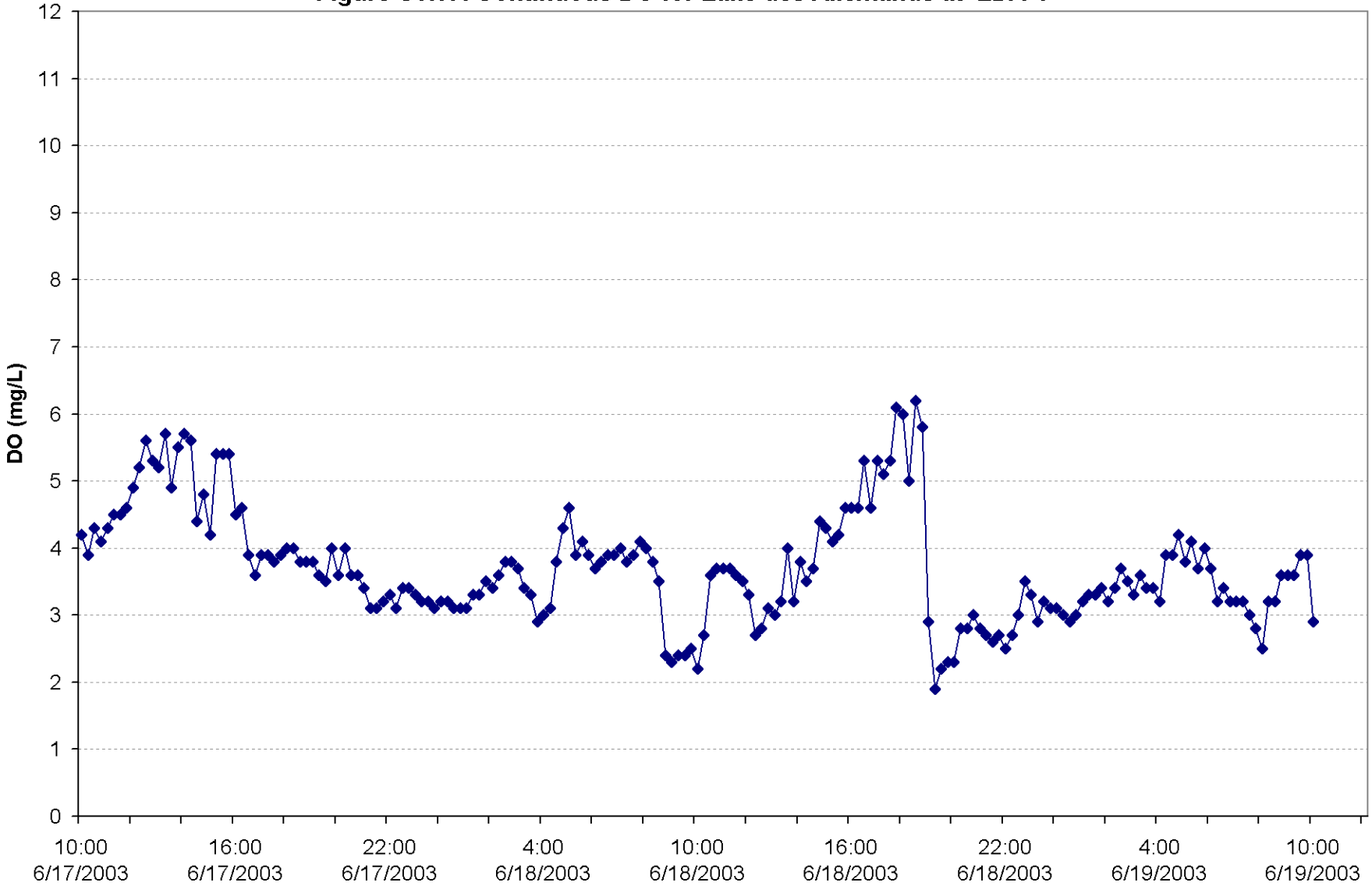


Figure C3.58. Continuous DO Percent Saturation for Lake des Allemands at LDA-1

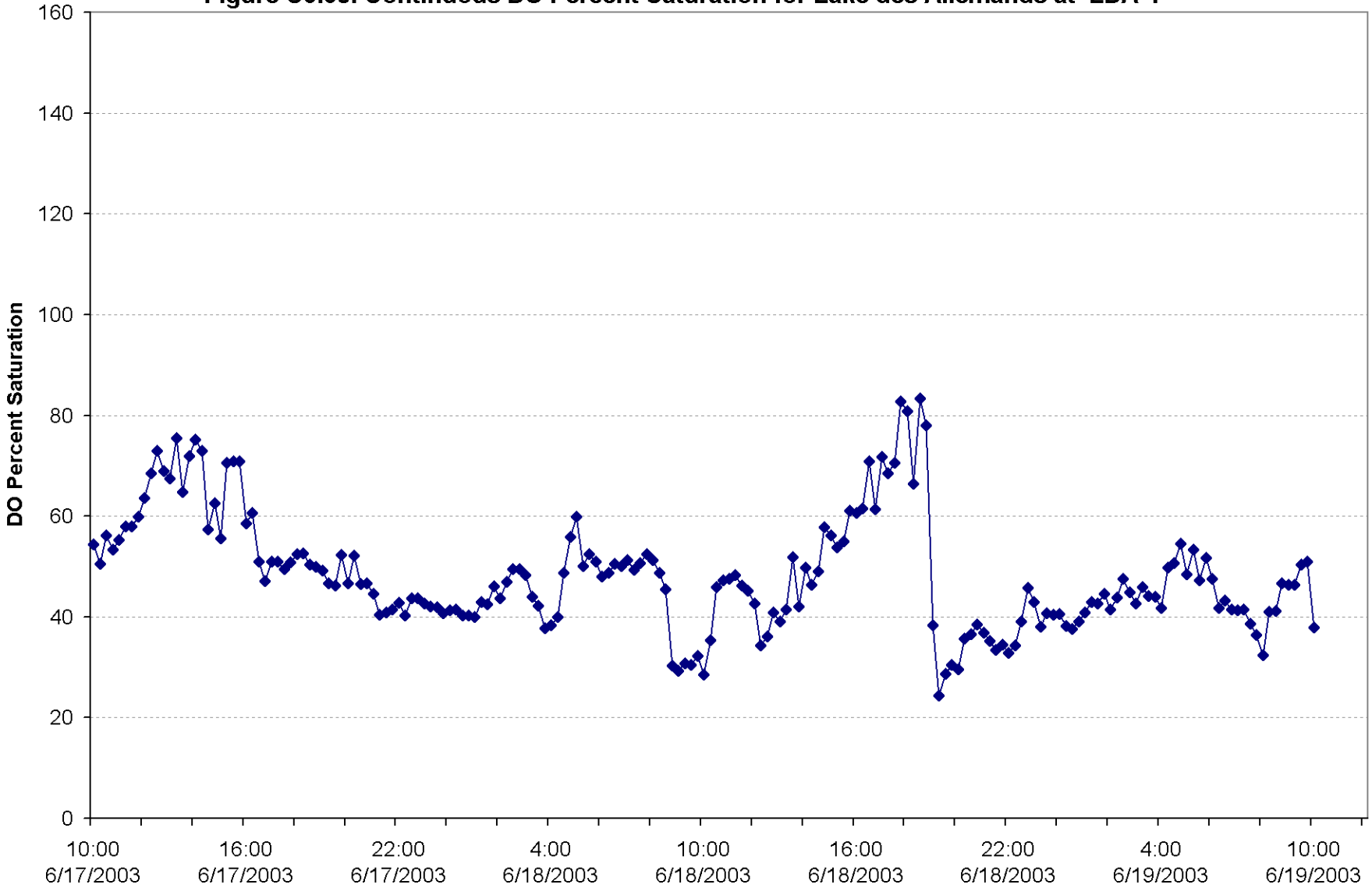


Figure C3.59. Continuous pH for Lake des Allemands at LDA-1

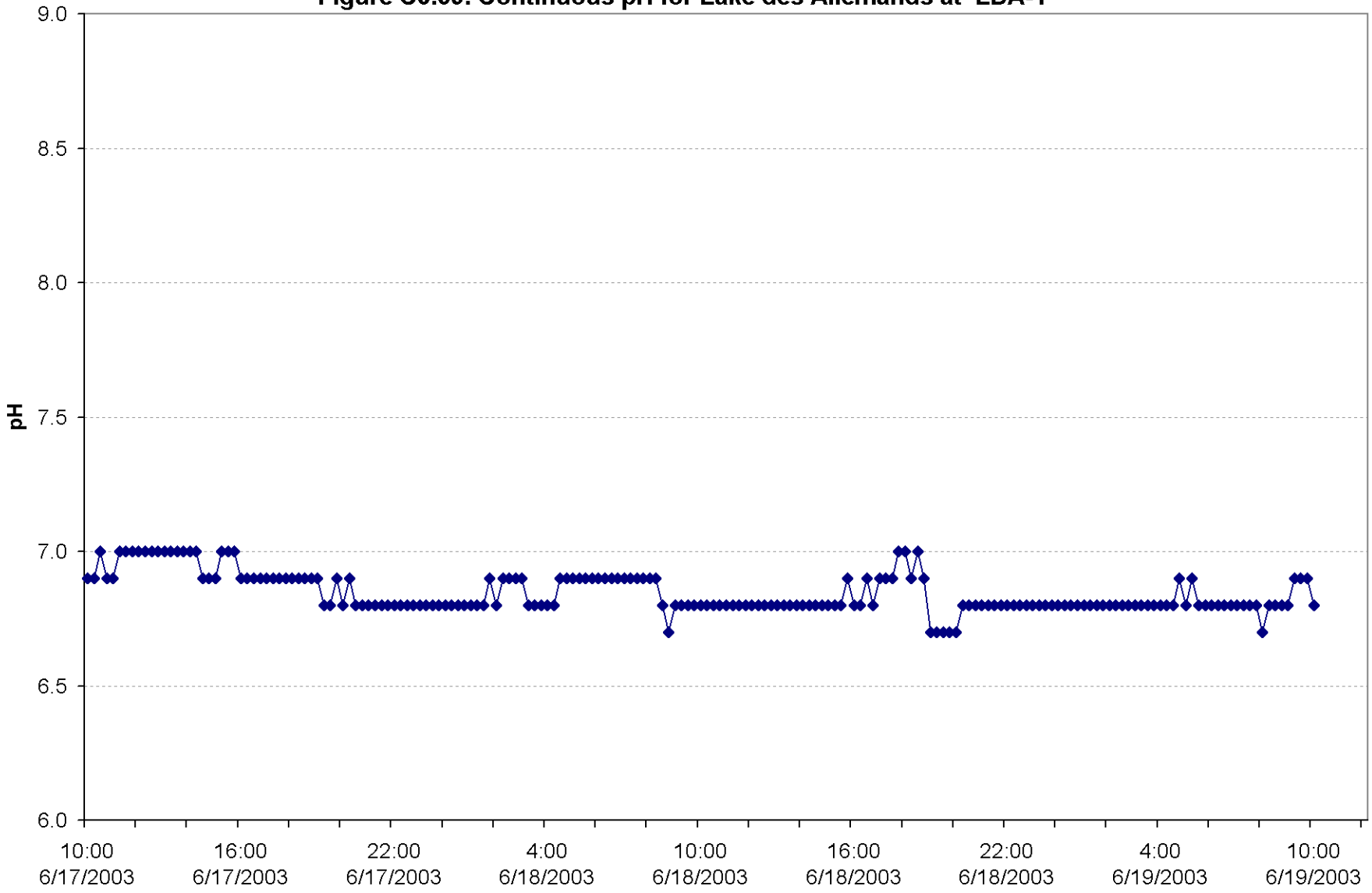
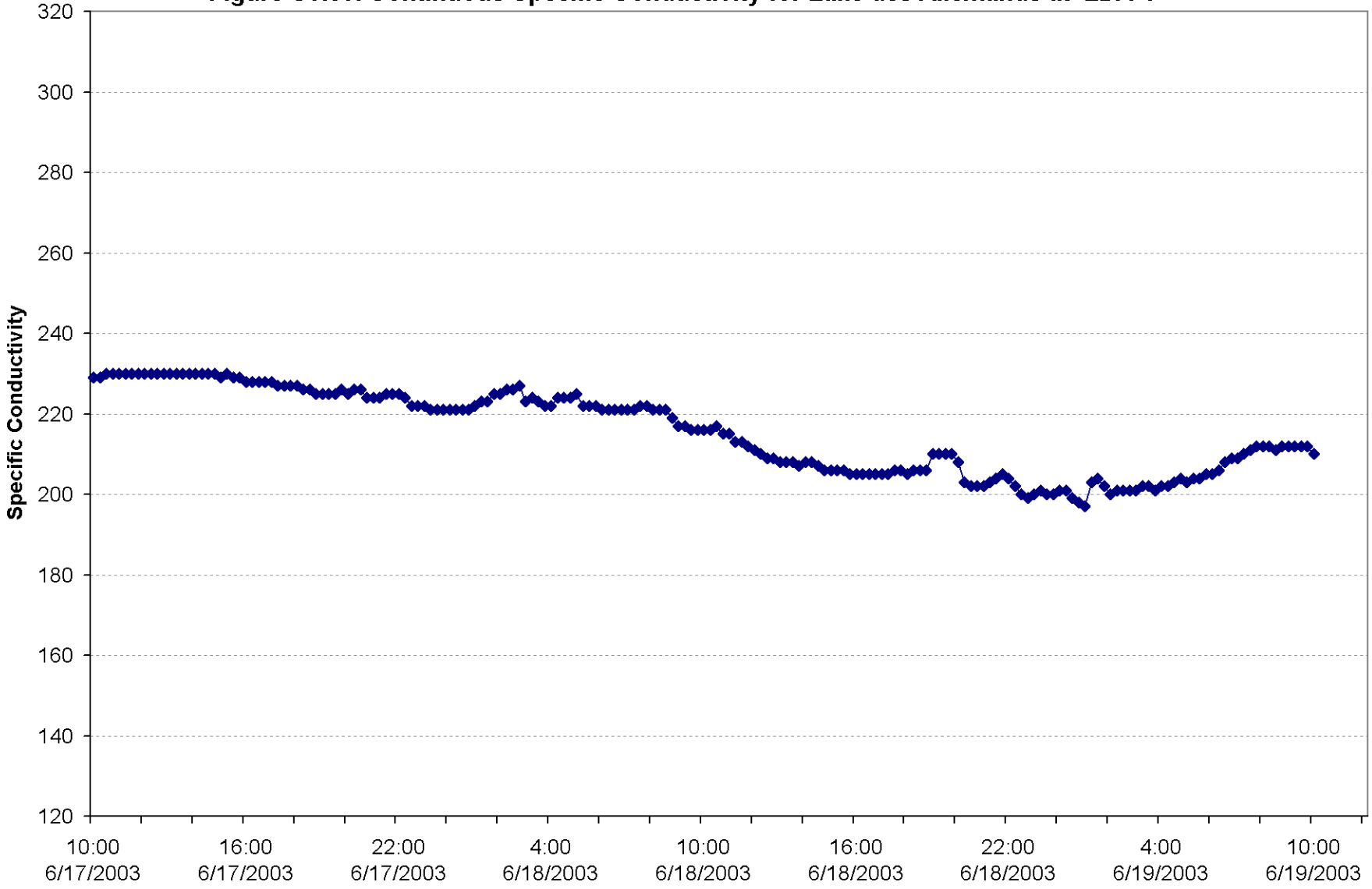


Figure C3.60. Continuous Specific Conductivity for Lake des Allemands at LDA-1



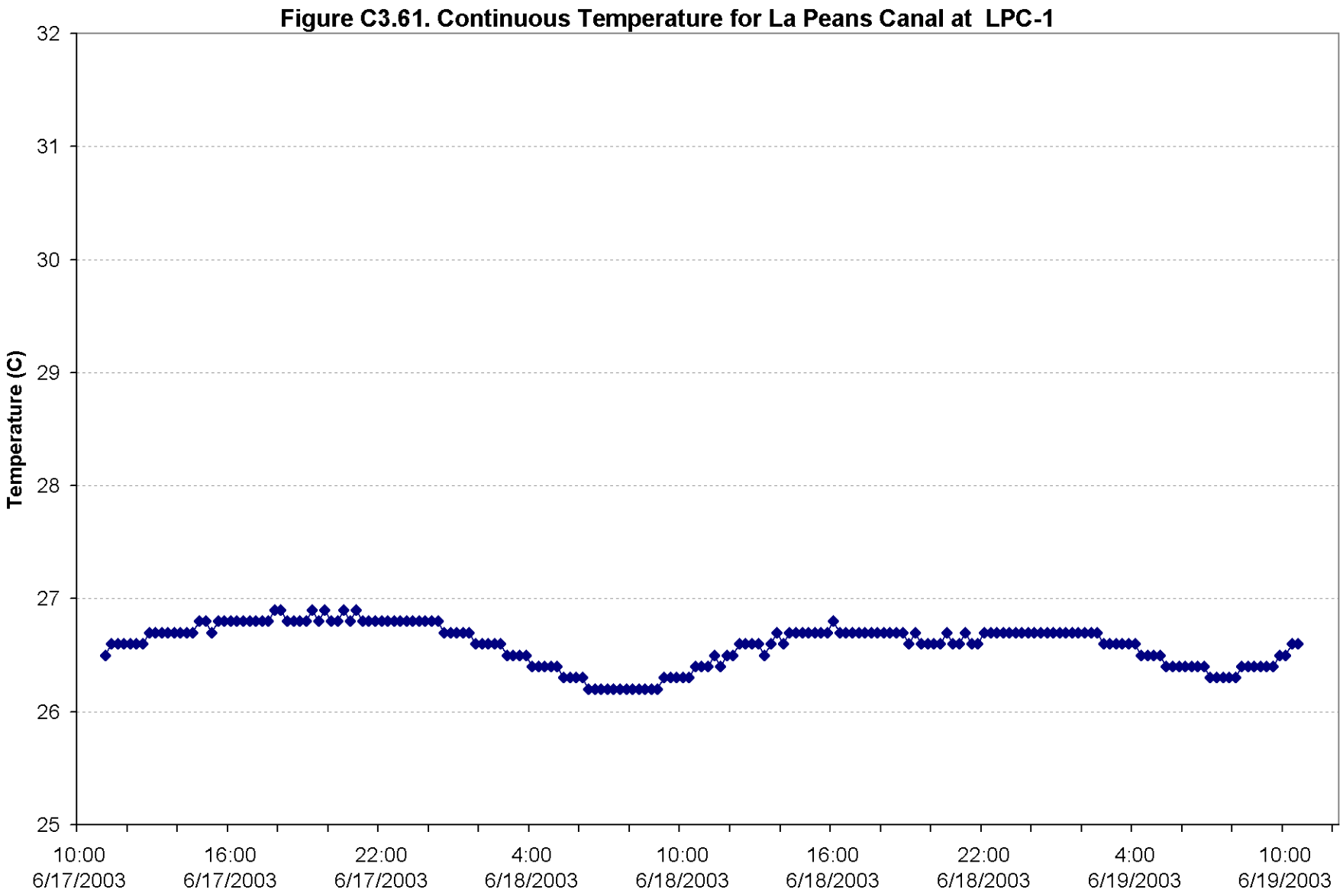


Figure C3.61. Continuous Temperature for La Peans Canal at LPC-1
Temperature (C)
32
31
30
29
28
27
26
25
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

Figure C3.62. Continuous DO for La Peans Canal at LPC-1

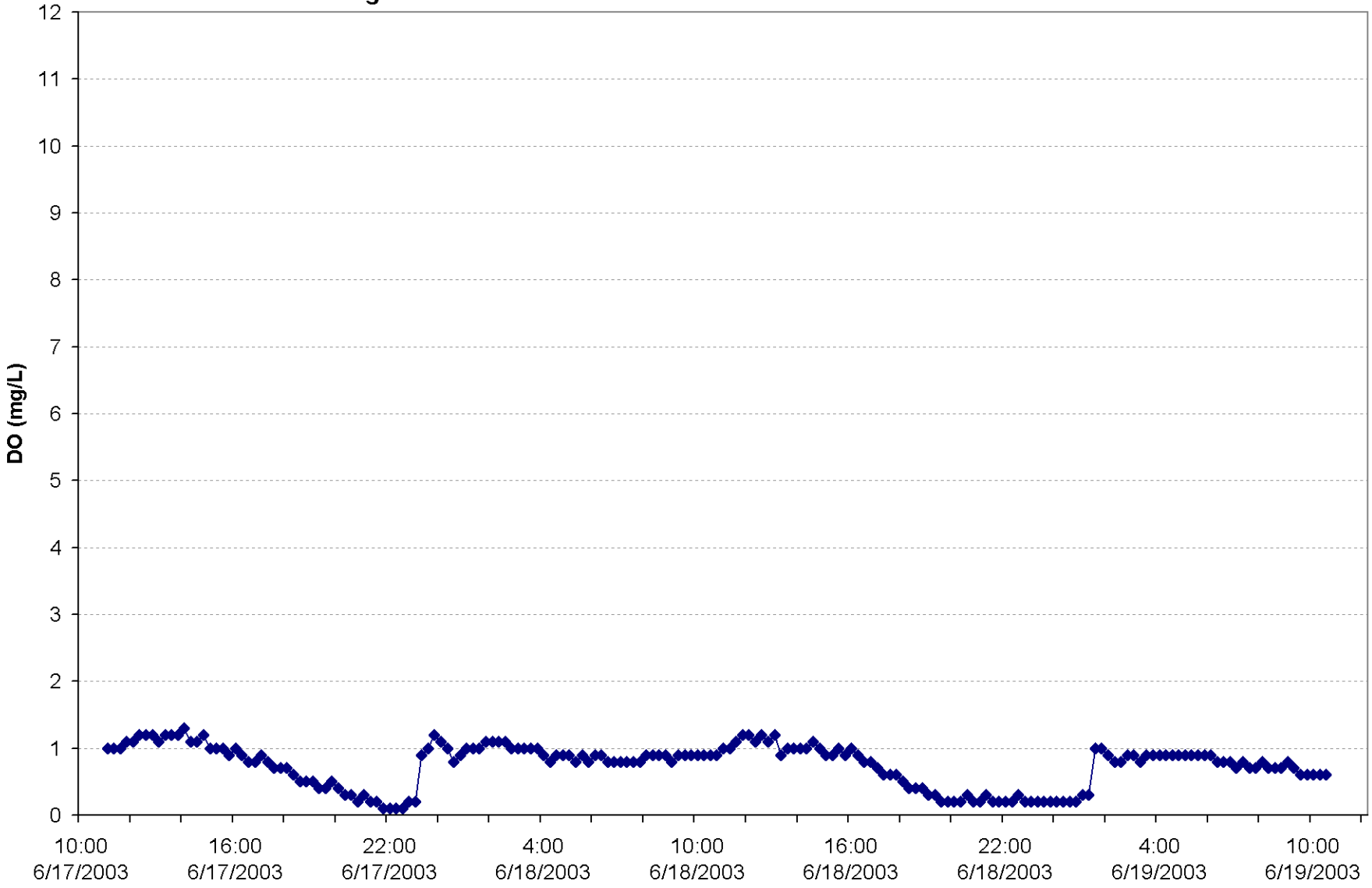


Figure C3.63. Continuous DO Percent Saturation for La Peans Canal at LPC-1

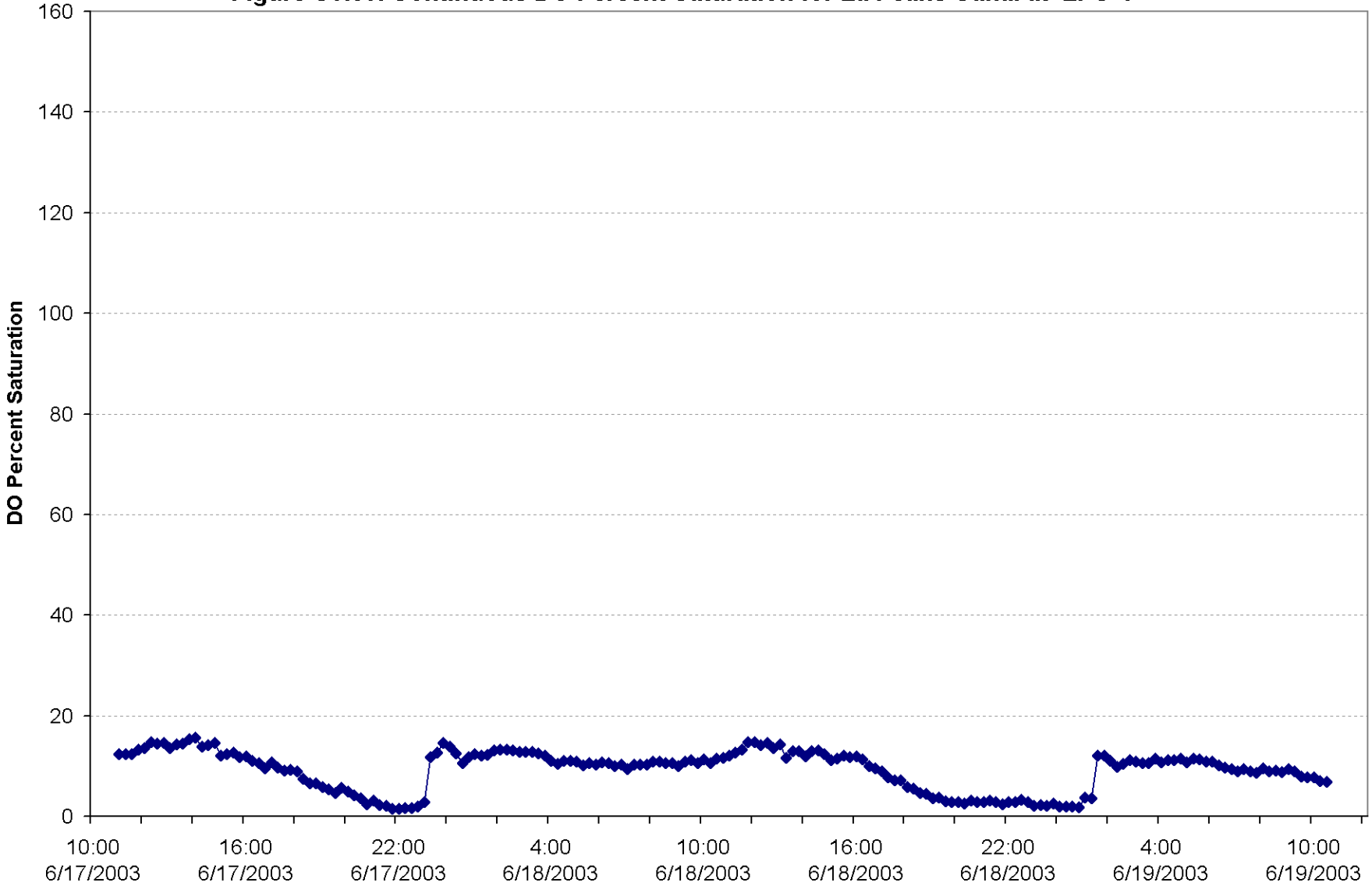


Figure C3.64. Continuous pH for La Peans Canal at LPC-1

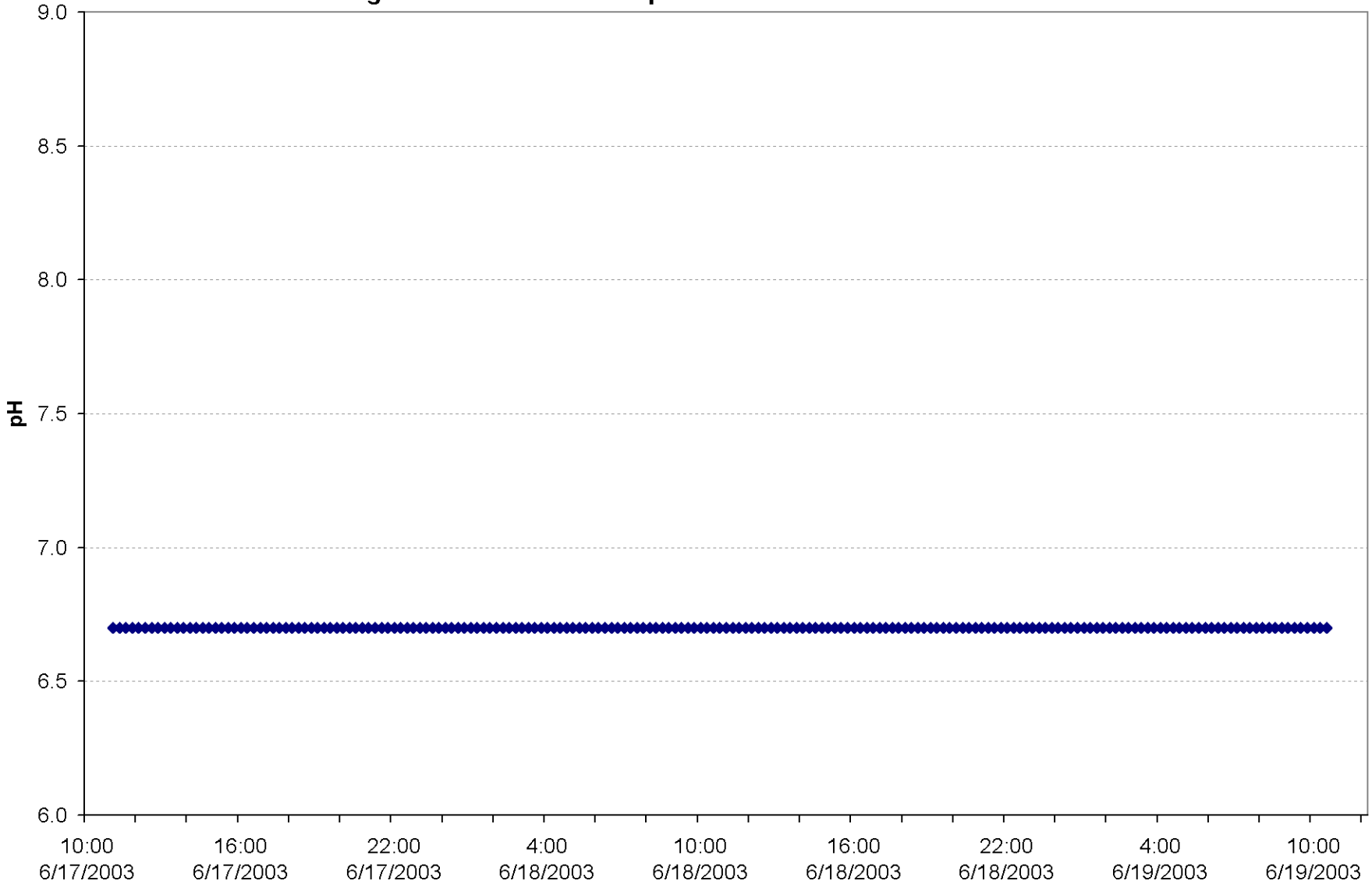


Figure C3.65. Continuous Specific Conductivity for La Peans Canal at LPC-1

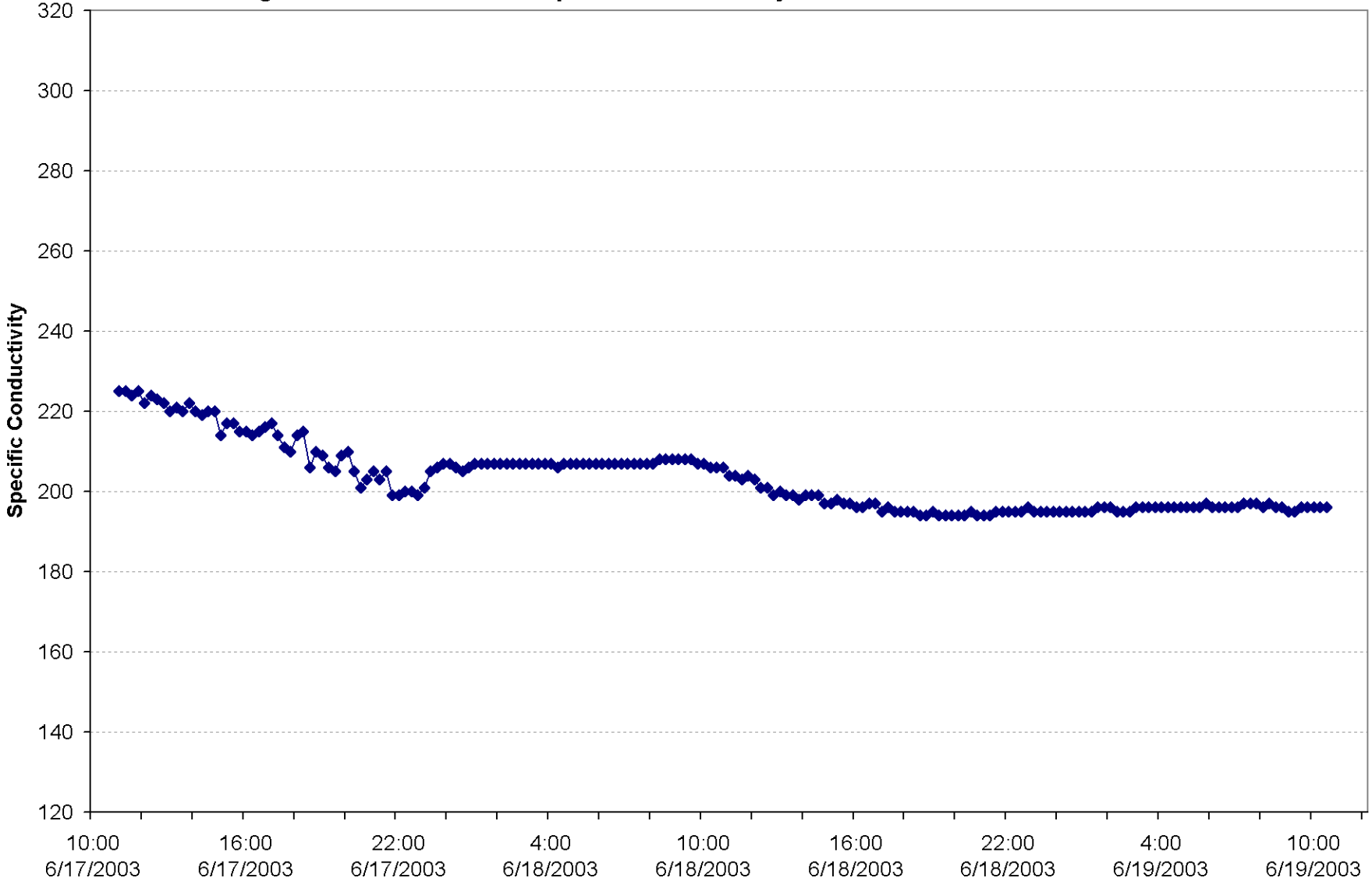


Figure C3.66. Continuous Depth for La Peans Canal at LPC-1

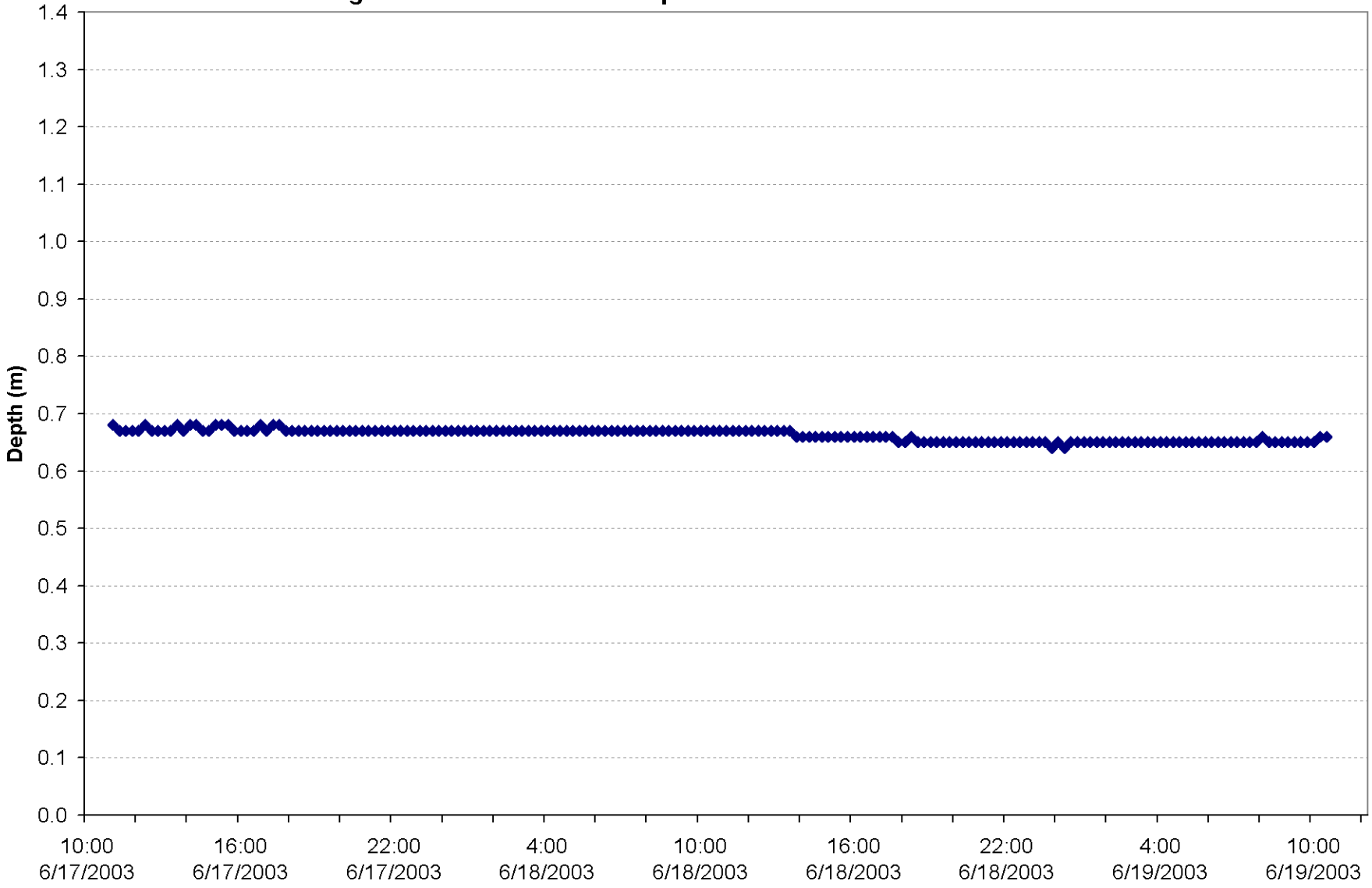


Figure C3.67. Continuous Temperature for Theriot Canal at TC-1

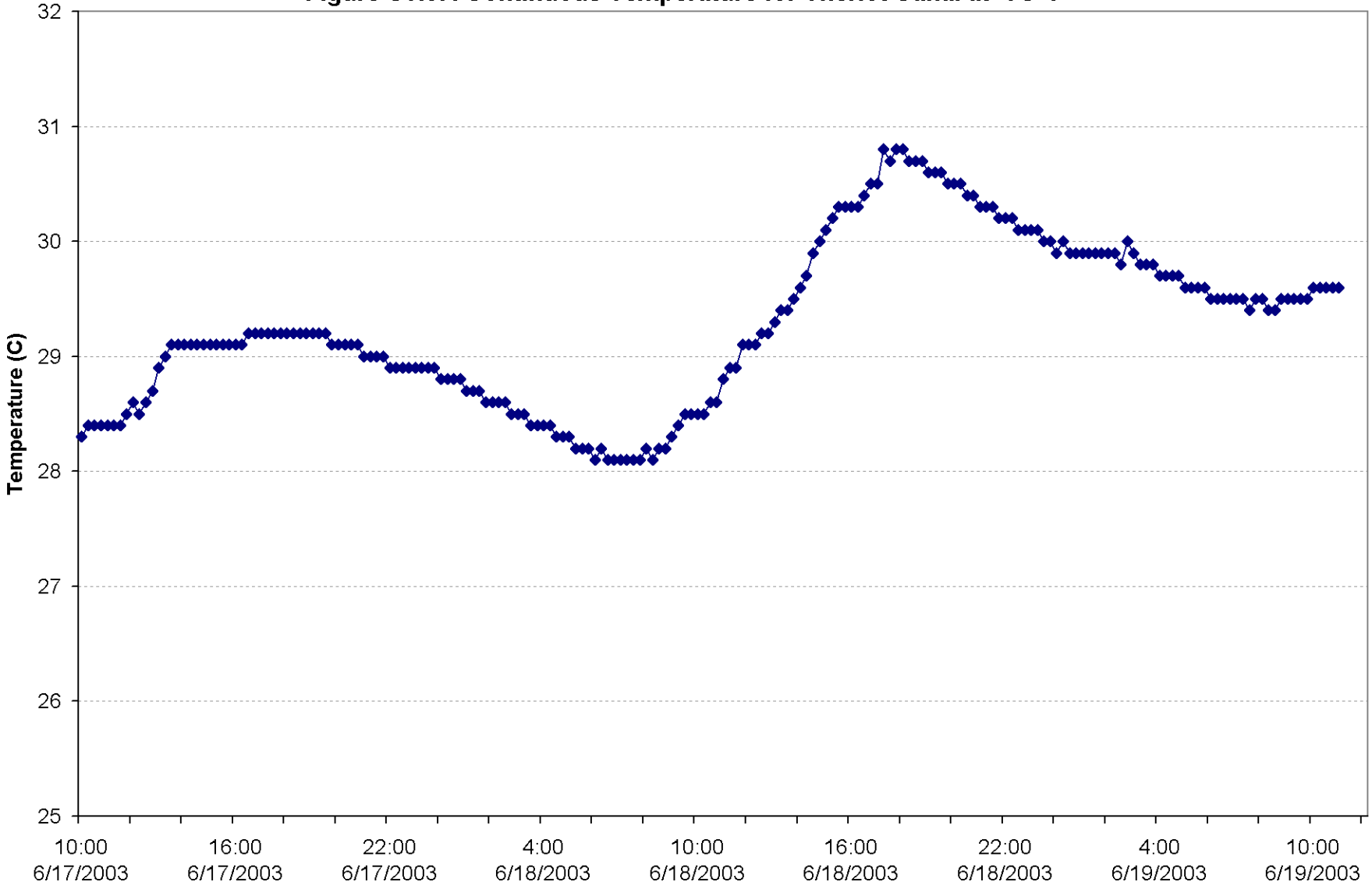


Figure C3.68. Continuous DO for Theriot Canal at TC-1

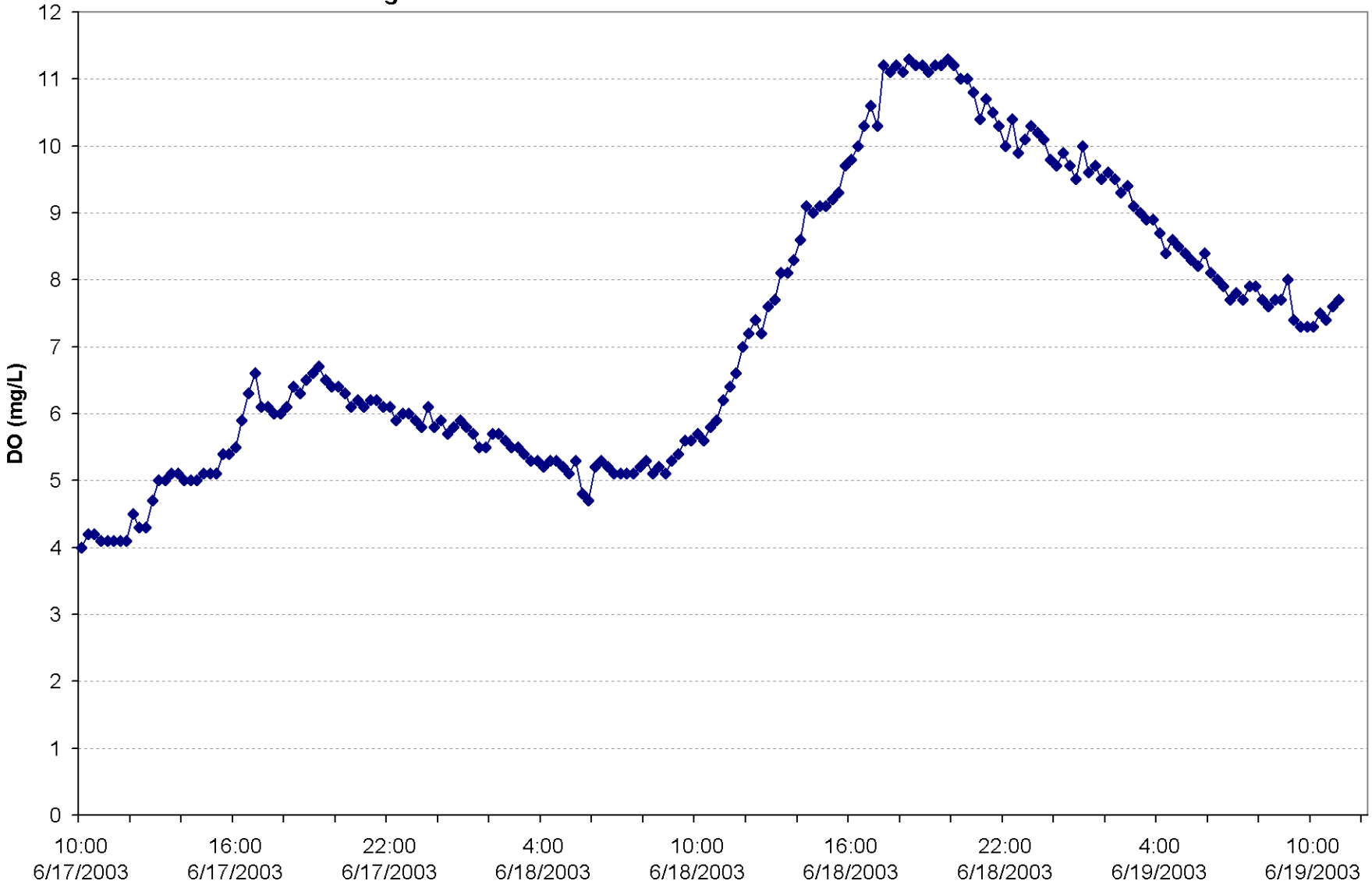


Figure C3.69. Continuous DO Percent Saturation for Theriot Canal at TC-1

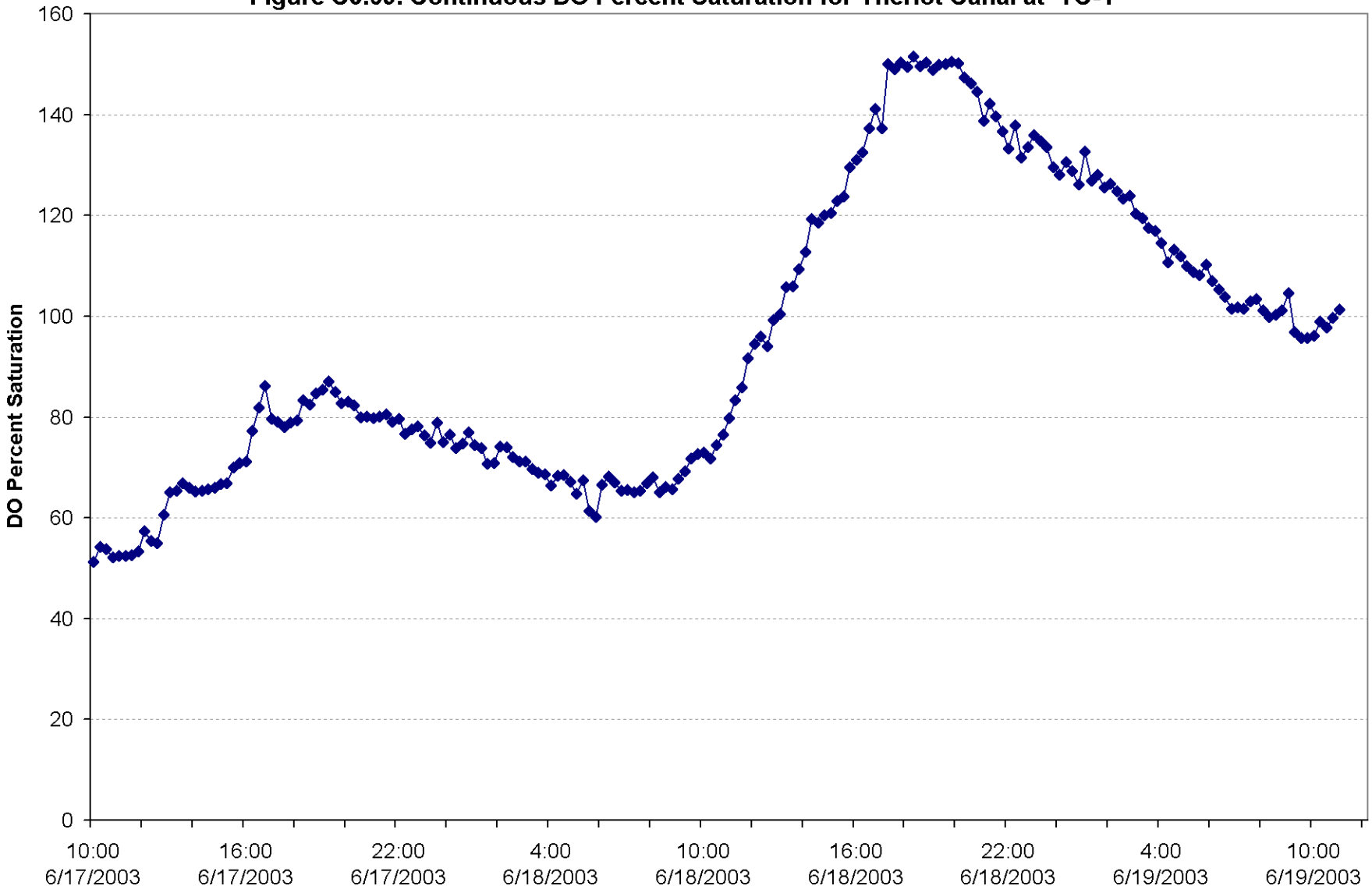
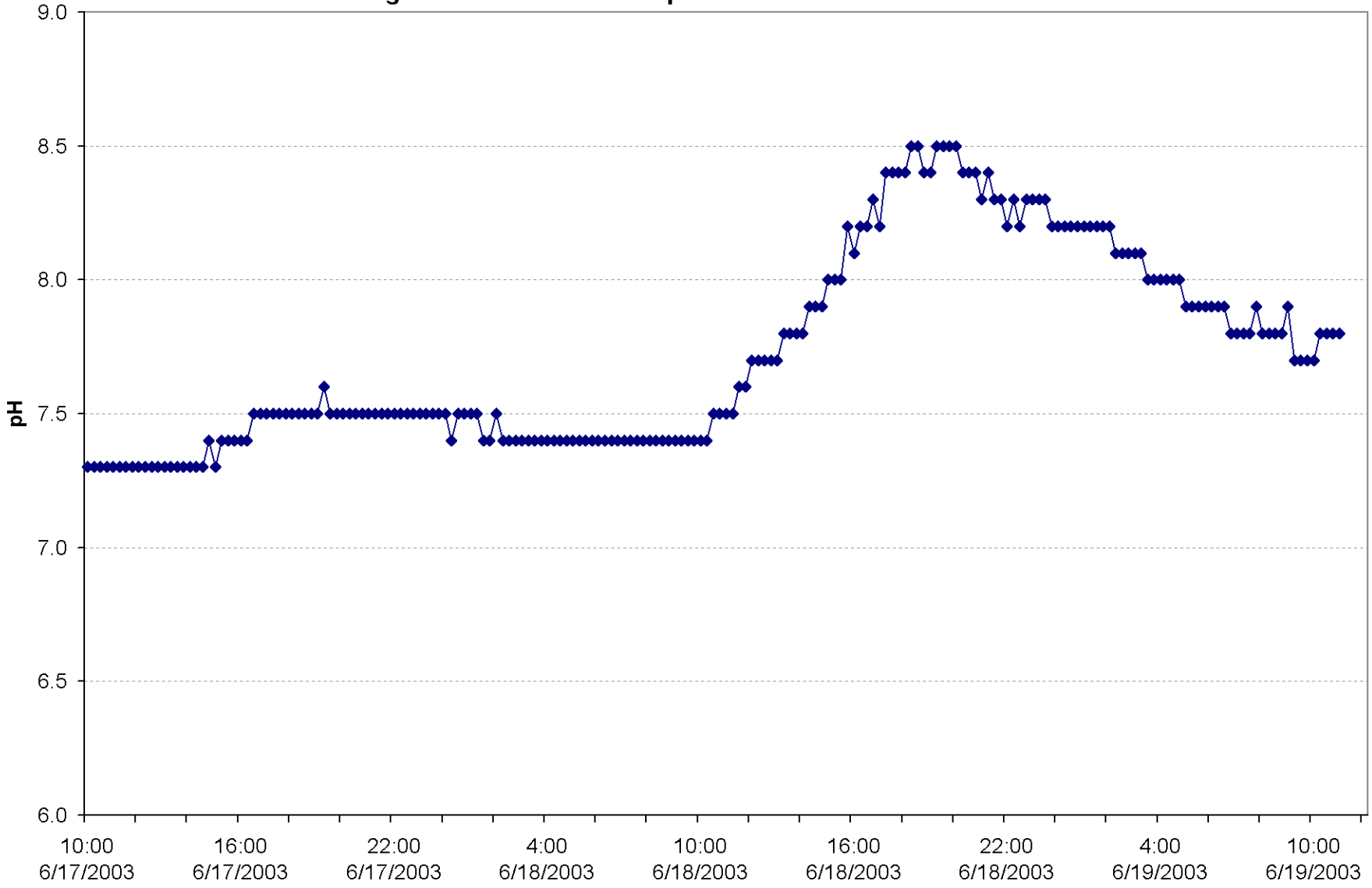


Figure C3.70. Continuous pH for Theriot Canal at TC-1



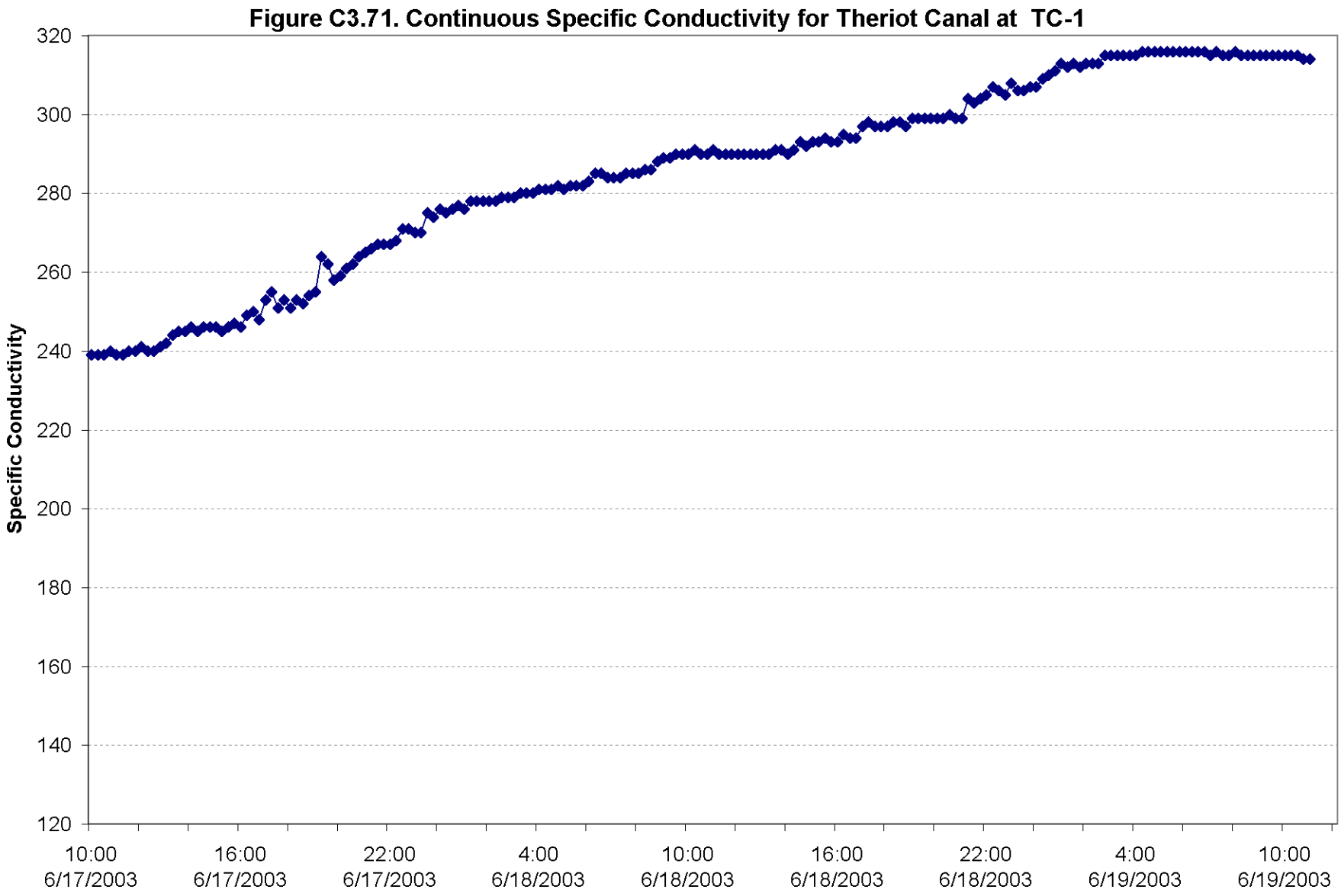
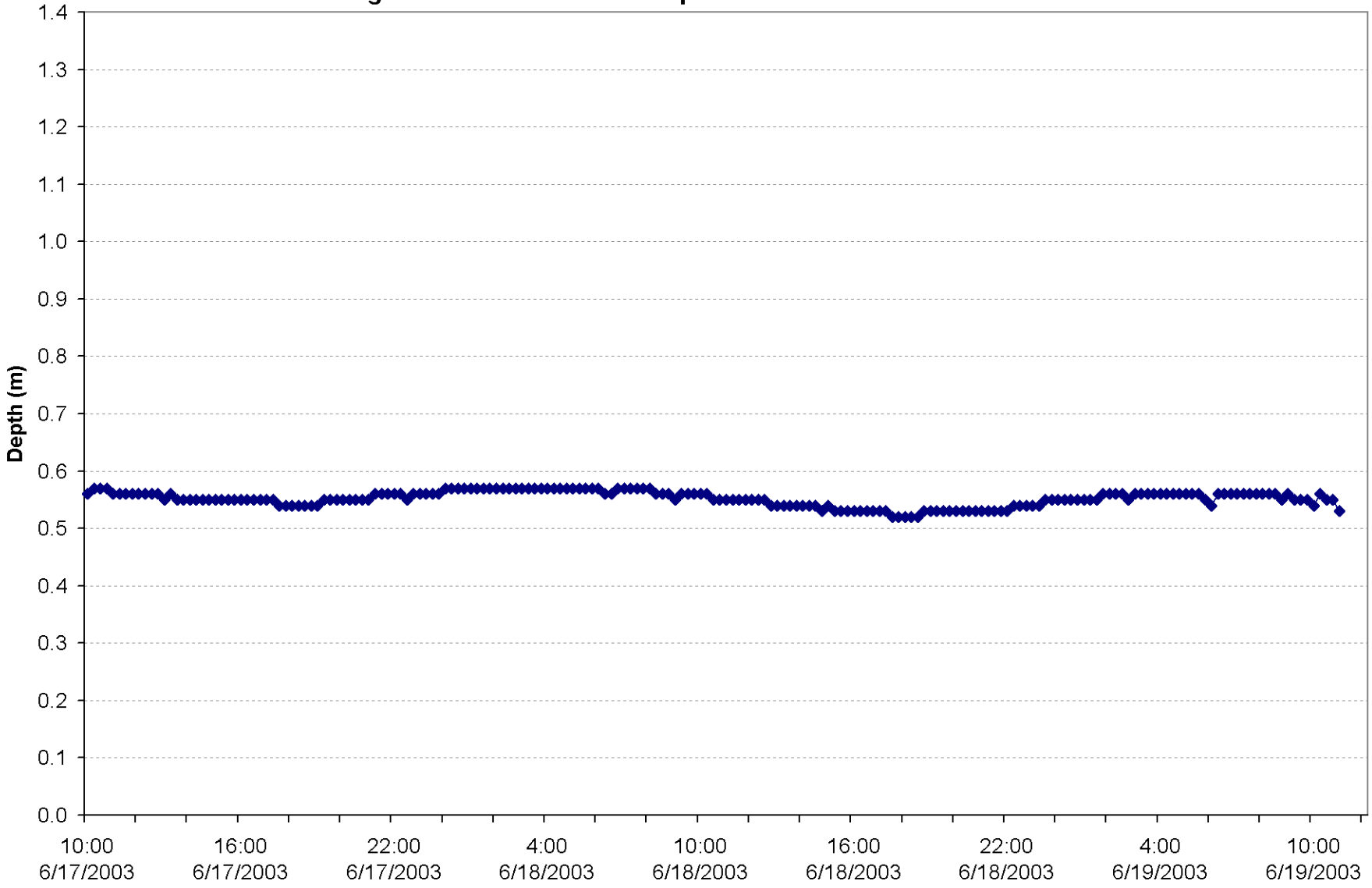


Figure C3.71. Continuous Specific Conductivity for Theriot Canal at TC-1
Specific Conductivity
320
300
280
260
240
220
200
180
160
140
120
10:00 6/17/2003
16:00 6/17/2003
22:00 6/17/2003
4:00 6/18/2003
10:00 6/18/2003
16:00 6/18/2003
22:00 6/18/2003
4:00 6/19/2003
10:00 6/19/2003

Figure C3.72. Continuous Depth for Theriot Canal at TC-1



APPENDIX C4

Results of BOD Time Series Analyses

Instructions for the worksheet:

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

Survey Stream and date: **Bayou Beouf System**

Sample Collection date: **Analysis Start date:** 06/19/03

Total BOD data

Item No.	Sample No.	06/19/03				06/20/03	06/23/03	06/25/03	06/27/03	06/30/03	07/03/03	07/09/03	07/18/03	07/29/03	08/08/03	08/18/03
		Daily analysis start dates:														
1	TC-1					0.0	1.9	2.3	2.9	4.1	4.6	5.3	6.1	6.7	7.0	7.0
2	TC-2					0.4	1.7	2.2	3.3	5.0	5.8	7.0	8.3	9.2	9.8	10.0
3	LPC-1					0.4	1.5	1.6	1.9	3.3	3.9	4.7	5.6	6.5	7.1	7.5
4	LPC-1-Field duplic					0.5	1.7	1.8	2.4	3.7	4.4	5.2	6.2	7.0	7.6	8.1
5	BOC-1					0.9	3.0	3.4	4.0	5.6	6.7	8.2	9.6	10.8	11.7	12.0
6	GB-1					0.6	2.2	3.3	4.1	5.4	5.9	7.1	8.3	9.3	10.2	10.6
7	GB-2					0.6	2.4	3.7	4.8	5.9	6.5	7.6	9.0	10.1	10.9	11.4
8	GB-4					0.5	2.2	3.5	4.6	5.6	6.3	7.3	8.6	9.7	10.3	10.8
9	GB-4-Field duplic					0.7	2.7	4.2	5.3	6.3	7.1	8.1	9.3	10.5	11.1	11.6
10	GB-6					0.6	2.5	3.4	4.6	6.1	6.8	7.8	9.0	10.0	10.6	11.0
11	BO-1					0.6	2.8	4.5	5.4	6.5	7.0	8.2	9.6	10.9	11.7	12.2
12	BBF-3					1.2	4.0	5.2	6.3	7.9	9.0	9.9	11.5	12.4	13.1	13.6
13	LDA-1					0.9	2.9	3.4	4.2	6.3	7.5	8.7	10.2	11.3	12.2	12.6
14	HC-1					0.5	1.7	1.7	1.9	3.3	4.0	4.9	5.9	6.8	7.4	7.7
15																

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

Item No.	Sample No.	06/19/03				06/20/03	06/23/03	06/25/03	06/27/03	06/30/03	07/03/03	07/09/03	07/18/03	07/29/03	08/08/03	08/18/03
		Daily analysis start dates:														
1	TC-1	1.30				1.31	1.23	1.25	1.31	1.43	1.46	1.49	1.55	1.43	1.56	1.53
2	TC-2	2.72				2.74	2.67	2.71	2.95	2.80	2.97	3.05	3.25	2.92	3.12	3.20
3	LPC-1	0.10				0.10	0.09	0.10	0.12	0.21	0.25	0.28	0.36	0.34	0.38	0.39
4	LPC-1-Field duplic	0.10				0.10	0.10	0.11	0.14	0.24	0.28	0.31	0.40	0.37	0.41	0.43
5	BOC-1	0.05				0.05	0.05	0.05	0.05	0.08	0.09	0.28	0.41	0.39	0.45	0.46
6	GB-1	1.45				1.49	1.46	1.59	1.71	1.93	1.99	2.02	2.02	1.93	2.00	1.98
7	GB-2	1.44				1.49	1.52	1.69	1.93	2.07	2.11	2.14	2.10	2.00	2.11	2.03
8	GB-4	1.63				1.66	1.74	1.88	2.11	2.22	2.23	2.24	2.24	2.23	2.28	2.22
9	GB-4-Field duplic	1.66				1.67	1.75	1.89	2.12	2.22	2.23	2.25	2.33	2.26	2.33	2.27
10	GB-6	2.56				2.60	2.62	2.60	2.80	3.01	3.18	3.11	3.19	3.04	3.11	3.16
11	BO-1	0.88				0.89	1.06	1.30	1.41	1.49	1.56	1.47	1.56	1.42	1.59	1.59
12	BBF-3	2.08				2.04	2.06	2.02	2.12	2.28	2.45	2.44	2.64	2.52	2.70	2.64
13	LDA-1	0.80				0.81	0.85	0.81	0.90	1.18	1.36	1.32	1.43	1.43	1.45	1.44
14	HC-1	0.05				0.05	0.05	0.05	0.05	0.08	0.08	0.20	0.26	0.28	0.31	0.31
15																

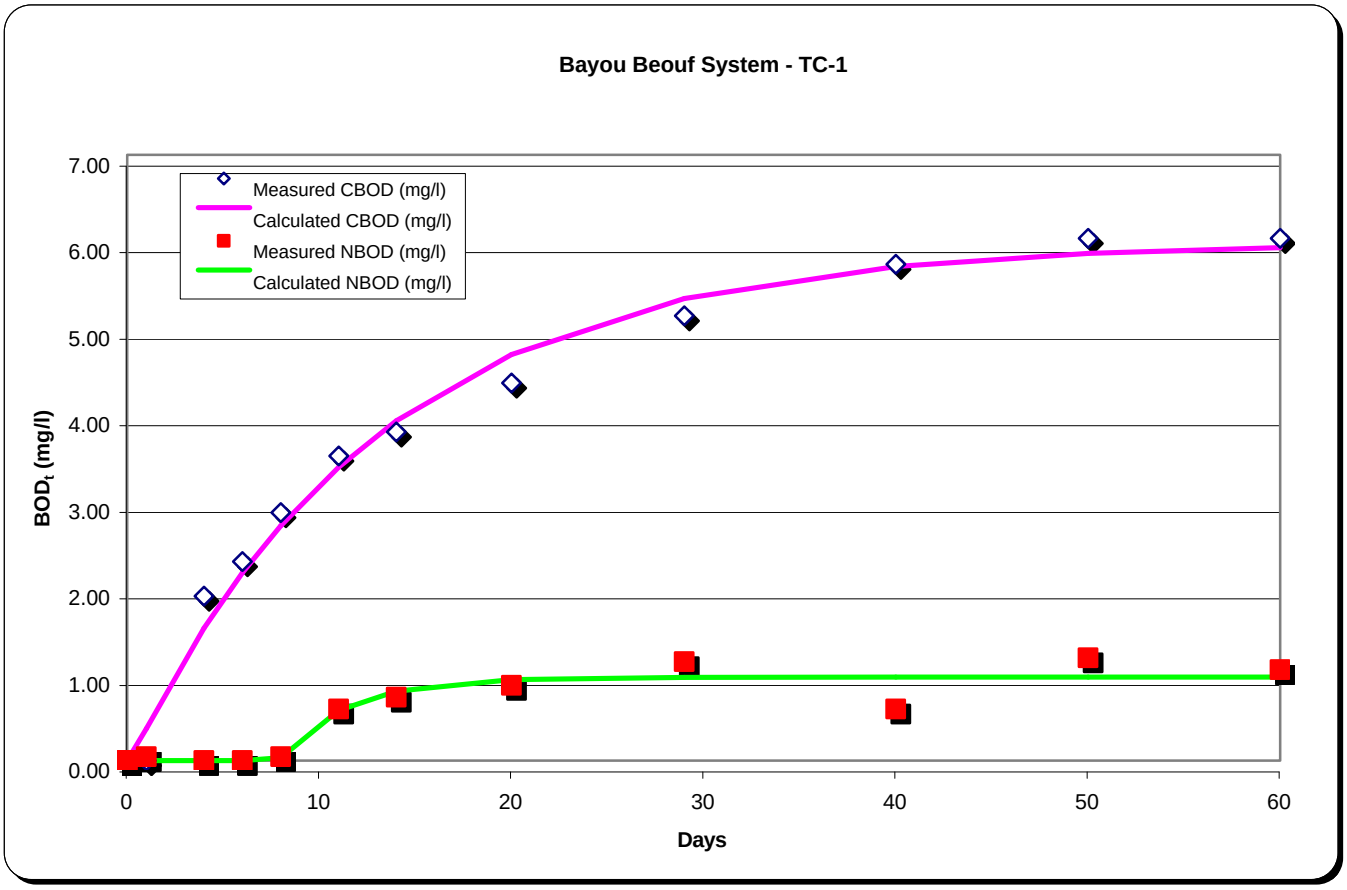
ALL ND's have been replaced with 0.05

FILE: R:\PROJECTS\3110-051\BEOUF PDF\GSBOD_FOR BEOUF-10 PTS.XLS

BOD Analysis of the for: **Bayou Beouf System - TC-1**

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		1.30				
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	0.0	1.31	0.05	0.00	0.00	0.37
4	1.9	1.23	0.00	1.90	0.00	1.53
6	2.3	1.25	0.00	2.30	0.00	2.17
8	2.9	1.31	0.05	2.87	0.03	2.72
11	4.1	1.43	0.59	3.52	0.58	3.39
14	4.6	1.46	0.73	3.80	0.80	3.93
20	5.3	1.49	0.87	4.36	0.94	4.69
29	6.1	1.55	1.14	5.14	0.96	5.34
40	6.7	1.43	0.59	5.74	0.96	5.71
50	7.0	1.56	1.19	6.04	0.96	5.86
60	7.0	1.53	1.05	6.04	0.96	5.93

0.96	5.99	**UBOD (mg/l)**
0.29	0.08	**k rate (1/day)**
7.88	0.17	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

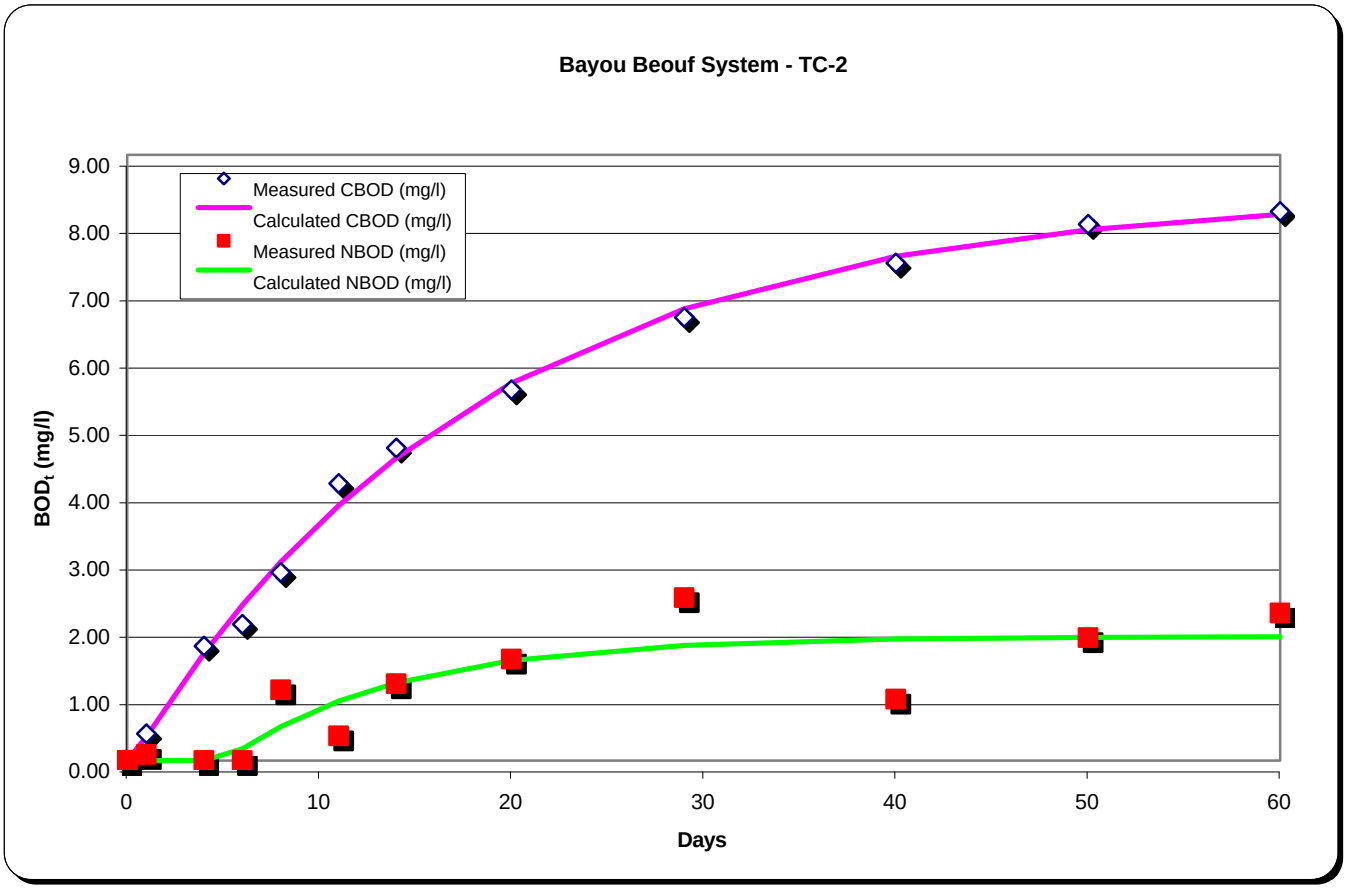
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - TC-2**

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		2.72				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.4	2.74	0.09	0.40	0.00	0.36
4	1.7	2.67	0.00	1.70	0.00	1.59
6	2.2	2.71	0.00	2.03	0.17	2.31
8	3.3	2.95	1.05	2.79	0.51	2.95
11	5.0	2.80	0.37	4.12	0.88	3.79
14	5.8	2.97	1.14	4.65	1.15	4.50
20	7.0	3.05	1.51	5.51	1.49	5.61
29	8.3	3.25	2.42	6.59	1.71	6.71
40	9.2	2.92	0.91	7.39	1.81	7.49
50	9.8	3.12	1.83	7.97	1.83	7.89
60	10.0	3.20	2.19	8.16	1.84	8.12

1.85	8.42	**UBOD (mg/l)**
0.11	0.06	**k rate (1/day)**
5.10	0.22	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

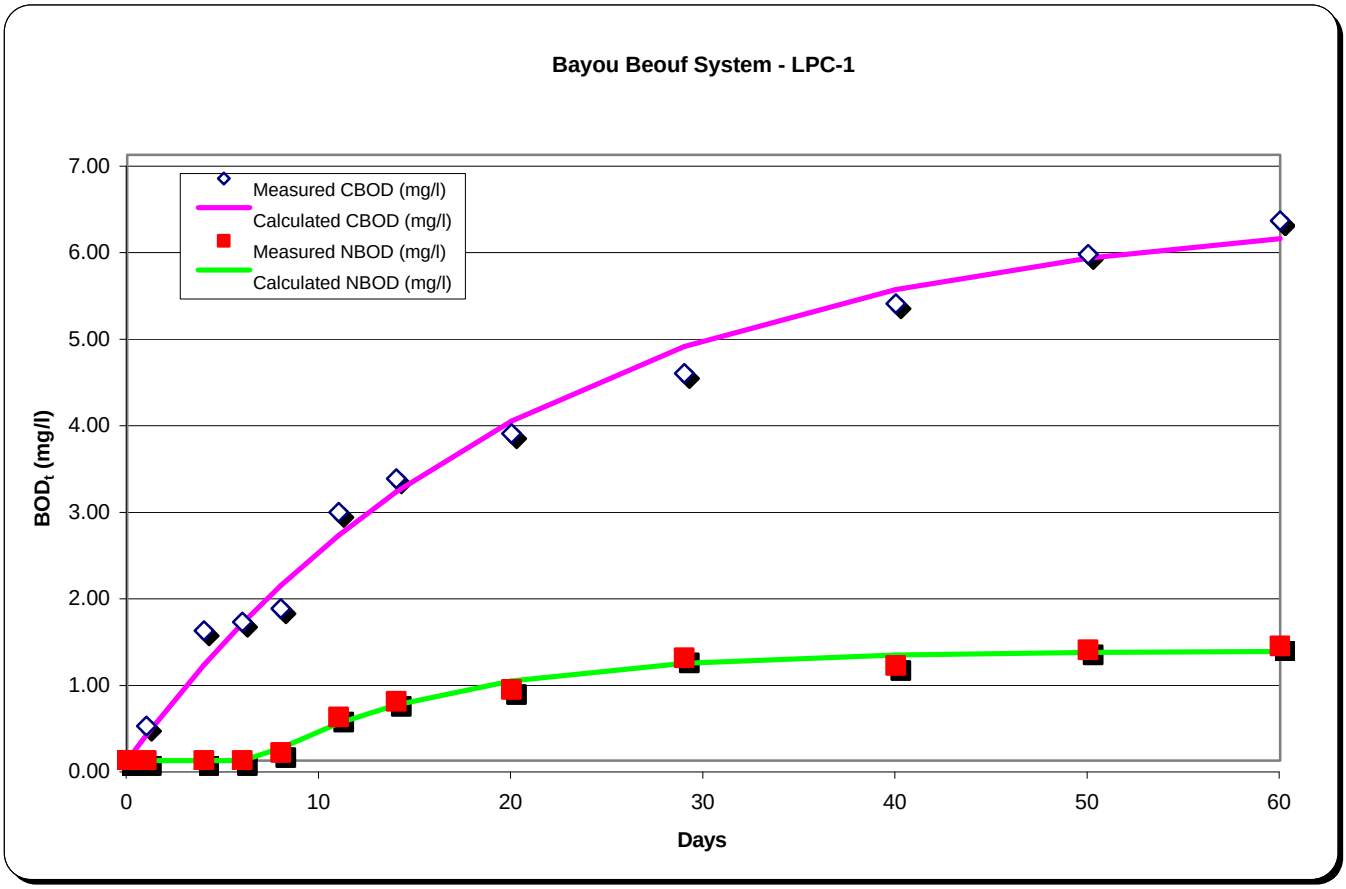
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - LPC-1**

Measured Data					Calculated Data	
Days	***Total BOD (mg/l)***	***NOx as N (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.10				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.4	0.10	0.00	0.40	0.00	0.30
4	1.5	0.09	0.00	1.50	0.00	1.11
6	1.6	0.10	0.00	1.60	0.00	1.59
8	1.9	0.12	0.09	1.75	0.15	2.02
11	3.3	0.21	0.50	2.87	0.43	2.60
14	3.9	0.25	0.69	3.26	0.64	3.11
20	4.7	0.28	0.82	3.78	0.92	3.92
29	5.6	0.36	1.19	4.48	1.12	4.78
40	6.5	0.34	1.10	5.28	1.22	5.44
50	7.1	0.38	1.28	5.85	1.25	5.81
60	7.5	0.39	1.33	6.24	1.26	6.03

1.27	6.40	**UBOD (mg/l)**
0.10	0.05	**k rate (1/day)**
6.76	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

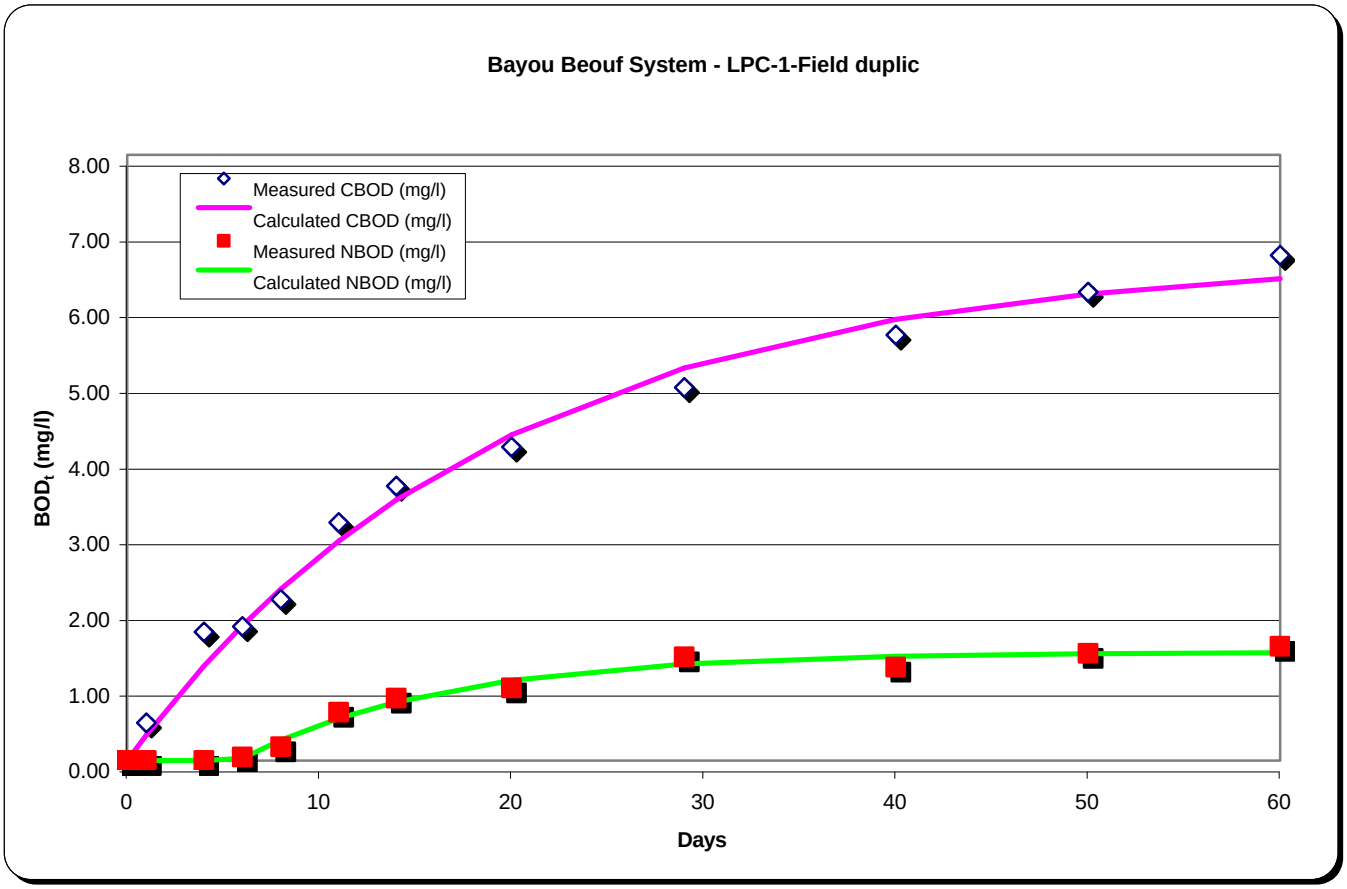
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - LPC-1-Field duplic**

Measured Data					Calculated Data	
Days	***Total BOD (mg/l)***	***NOx as N (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***	***NBOD (mg/l)***	***CBOD (mg/l)***
Note 1	Note 2	Note 3	Note 4	Note 5	Note 6	Note 7
0		0.10				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.5	0.10	0.00	0.50	0.00	0.34
4	1.7	0.10	0.00	1.70	0.00	1.25
6	1.8	0.11	0.05	1.77	0.03	1.78
8	2.4	0.14	0.18	2.13	0.27	2.27
11	3.7	0.24	0.64	3.14	0.56	2.90
14	4.4	0.28	0.82	3.63	0.77	3.44
20	5.2	0.31	0.96	4.14	1.06	4.30
29	6.2	0.40	1.37	4.93	1.27	5.18
40	7.0	0.37	1.23	5.62	1.38	5.83
50	7.6	0.41	1.42	6.19	1.41	6.16
60	8.1	0.43	1.51	6.67	1.43	6.36

1.43	6.66	**UBOD (mg/l)**
0.09	0.05	**k rate (1/day)**
5.78	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

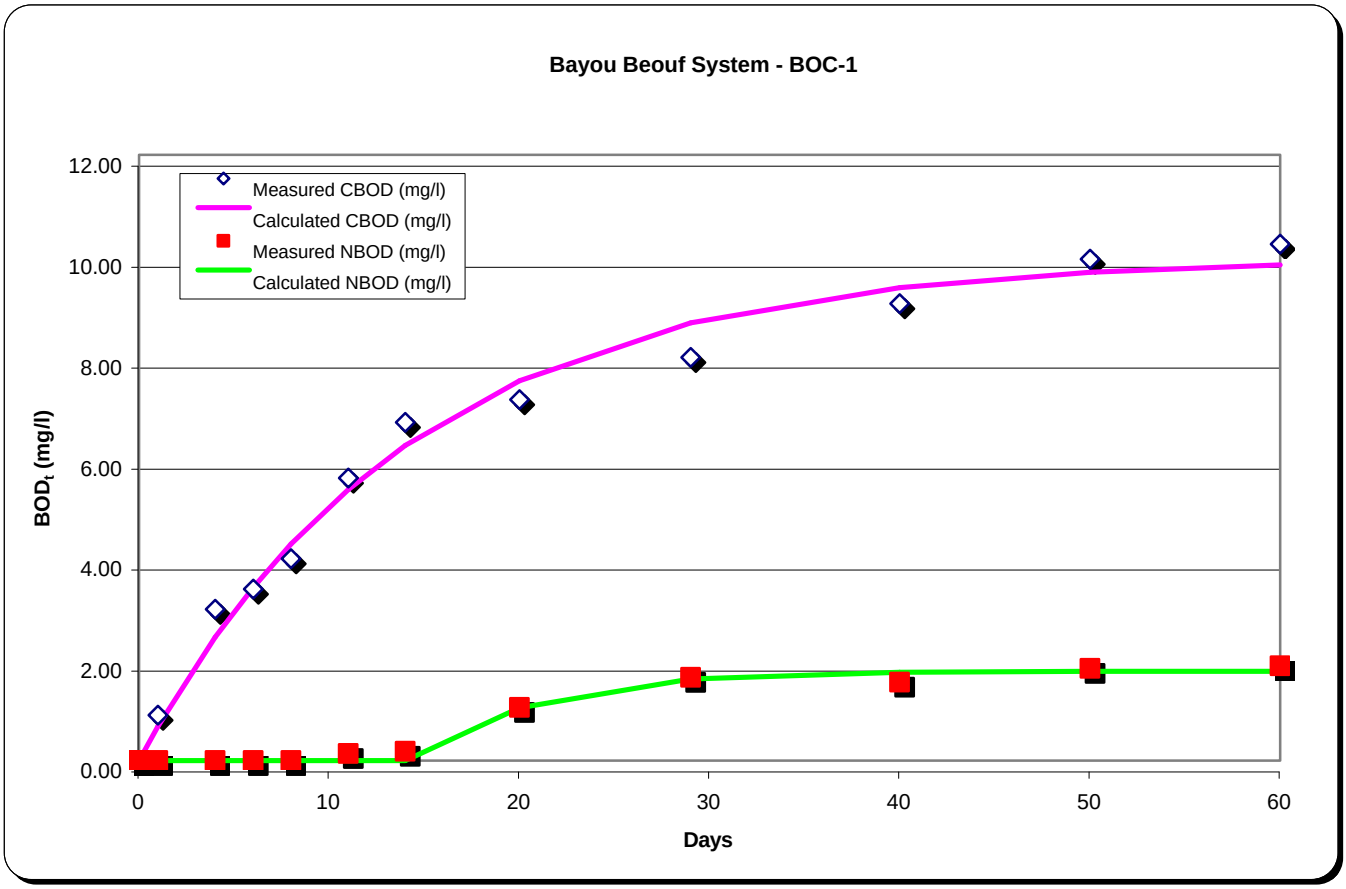
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - BOC-1**

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	0.68
4	3.0	0.05	0.00	3.00	0.00	2.44
6	3.4	0.05	0.00	3.40	0.00	3.43
8	4.0	0.05	0.00	4.00	0.00	4.29
11	5.6	0.08	0.14	5.60	0.00	5.37
14	6.7	0.09	0.18	6.70	0.00	6.24
20	8.2	0.28	1.05	7.15	1.05	7.53
29	9.6	0.41	1.65	7.98	1.62	8.67
40	10.8	0.39	1.55	9.05	1.75	9.37
50	11.7	0.45	1.83	9.93	1.77	9.67
60	12.0	0.46	1.87	10.23	1.77	9.82

1.77	9.97	**UBOD (mg/l)**
0.17	0.07	**k rate (1/day)**
14.73	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

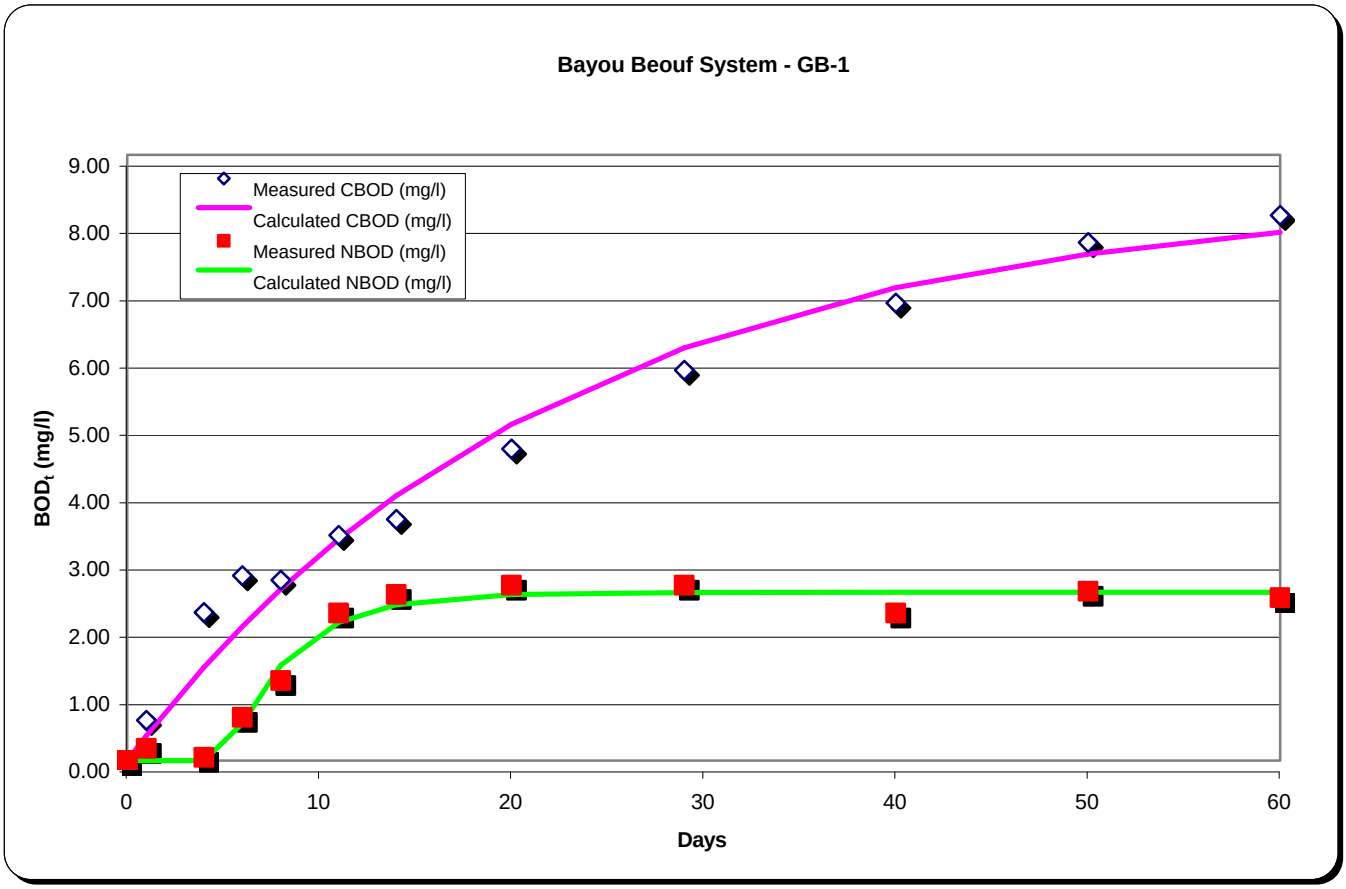
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - GB-1**

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		1.45				
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	0.6	1.49	0.18	0.60	0.00	0.37
4	2.2	1.46	0.05	2.20	0.00	1.39
6	3.3	1.59	0.64	2.75	0.55	1.99
8	4.1	1.71	1.19	2.68	1.42	2.55
11	5.4	1.93	2.19	3.35	2.05	3.29
14	5.9	1.99	2.47	3.59	2.31	3.94
20	7.1	2.02	2.60	4.63	2.47	5.00
29	8.3	2.02	2.60	5.80	2.50	6.14
40	9.3	1.93	2.19	6.80	2.50	7.02
50	10.2	2.00	2.51	7.70	2.50	7.53
60	10.6	1.98	2.42	8.10	2.50	7.85

2.50	8.41	**UBOD (mg/l)**
0.29	0.05	**k rate (1/day)**
5.15	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

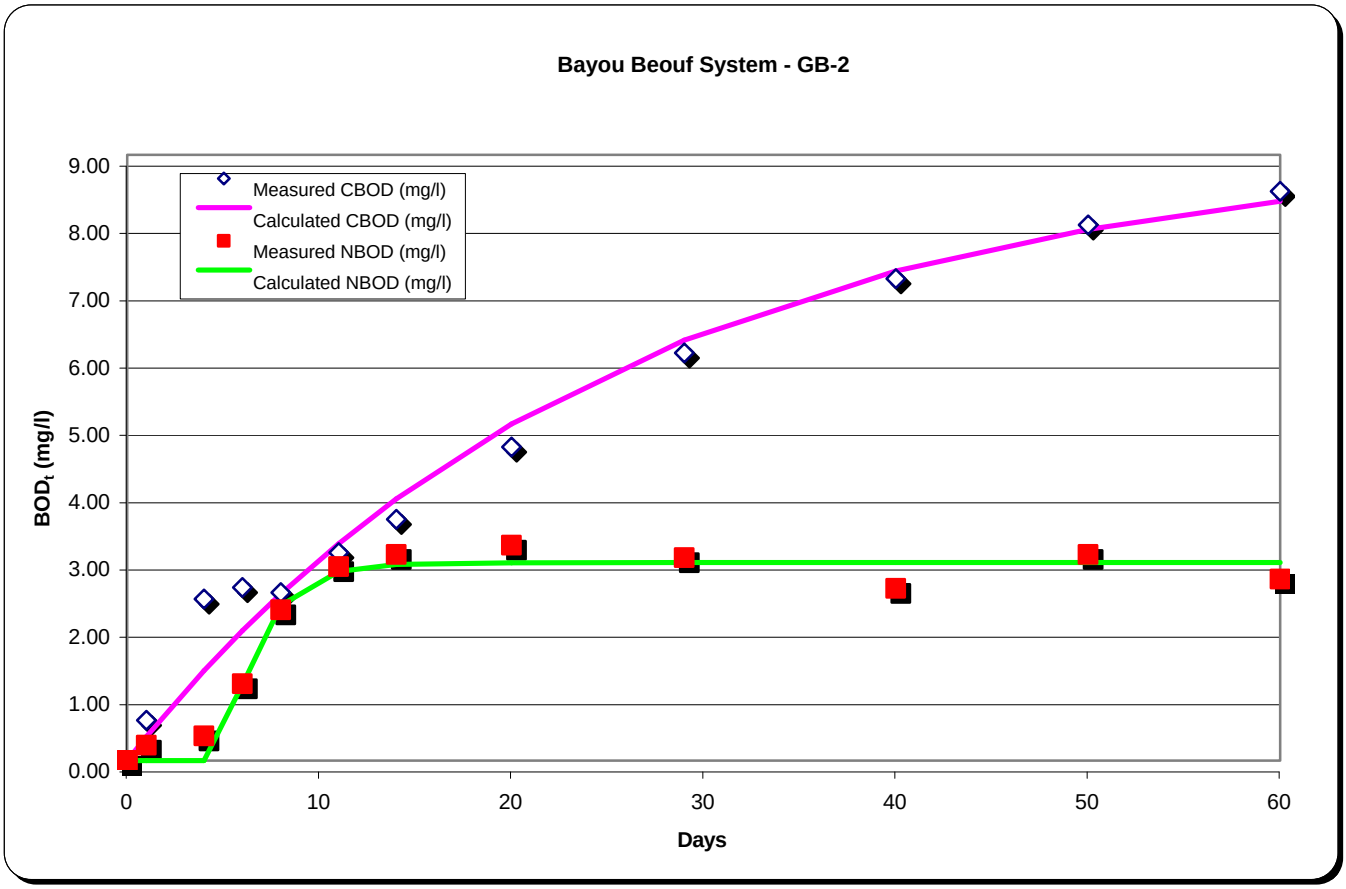
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - GB-2**

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		1.44				
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	0.6	1.49	0.23	0.60	0.00	0.35
4	2.4	1.52	0.37	2.40	0.00	1.34
6	3.7	1.69	1.14	2.57	1.13	1.93
8	4.8	1.93	2.24	2.50	2.30	2.48
11	5.9	2.07	2.88	3.09	2.81	3.22
14	6.5	2.11	3.06	3.59	2.91	3.89
20	7.6	2.14	3.20	4.66	2.94	5.00
29	9.0	2.10	3.02	6.06	2.94	6.25
40	10.1	2.00	2.56	7.16	2.94	7.28
50	10.9	2.11	3.06	7.96	2.94	7.89
60	11.4	2.03	2.70	8.46	2.94	8.31

2.94	9.17	**UBOD (mg/l)**
0.52	0.04	**k rate (1/day)**
5.08	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

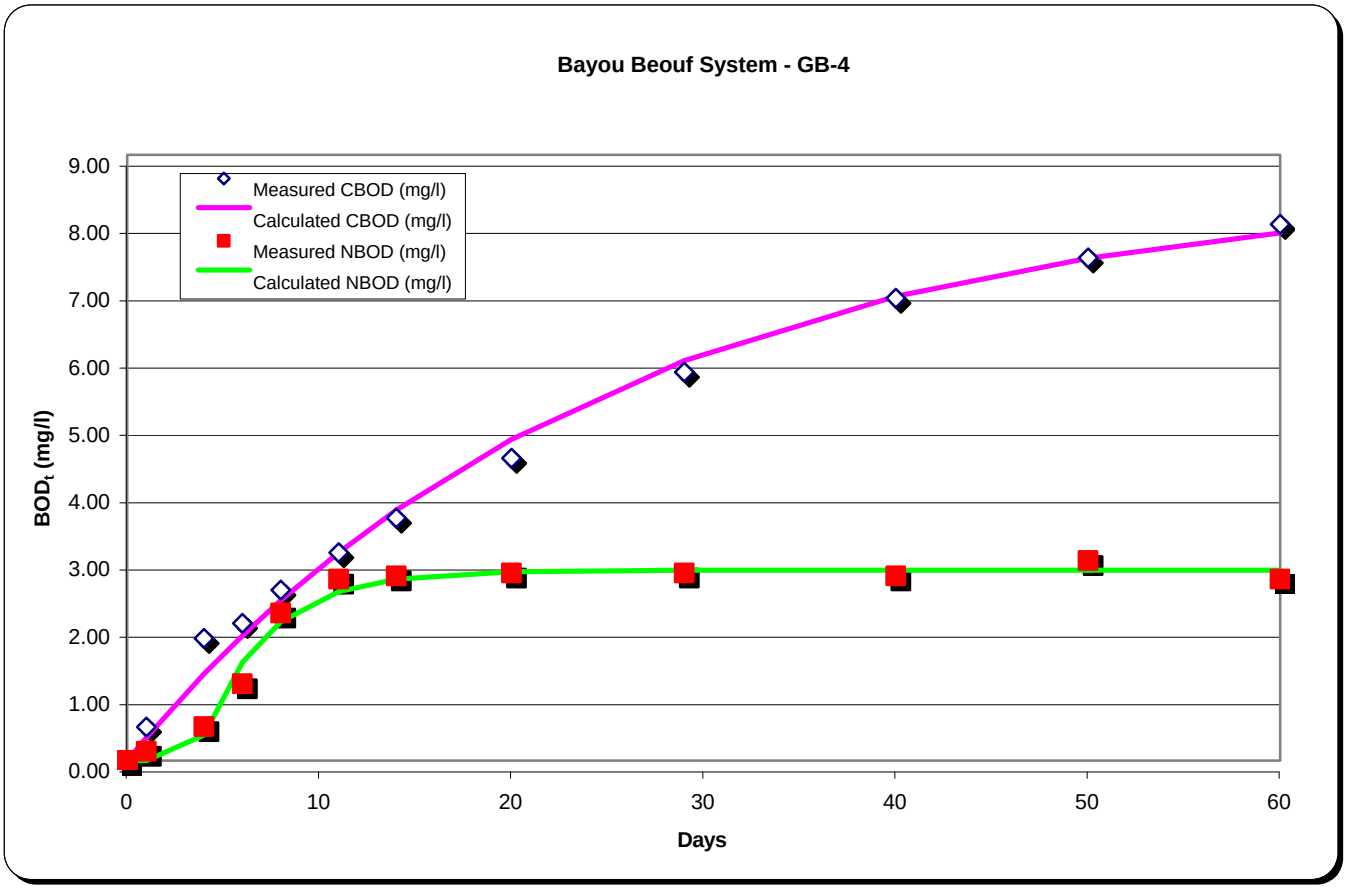
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - GB-4**

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		1.63				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.5	1.66	0.14	0.50	0.00	0.34
4	2.2	1.74	0.50	1.82	0.38	1.29
6	3.5	1.88	1.14	2.04	1.46	1.86
8	4.6	2.11	2.19	2.54	2.06	2.38
11	5.6	2.22	2.70	3.09	2.51	3.09
14	6.3	2.23	2.74	3.60	2.70	3.72
20	7.3	2.24	2.79	4.49	2.81	4.77
29	8.6	2.24	2.79	5.77	2.83	5.94
40	9.7	2.23	2.74	6.87	2.83	6.90
50	10.3	2.28	2.97	7.47	2.83	7.46
60	10.8	2.22	2.70	7.97	2.83	7.84

2.83	8.60	**UBOD (mg/l)**
0.29	0.04	**k rate (1/day)**
3.50	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

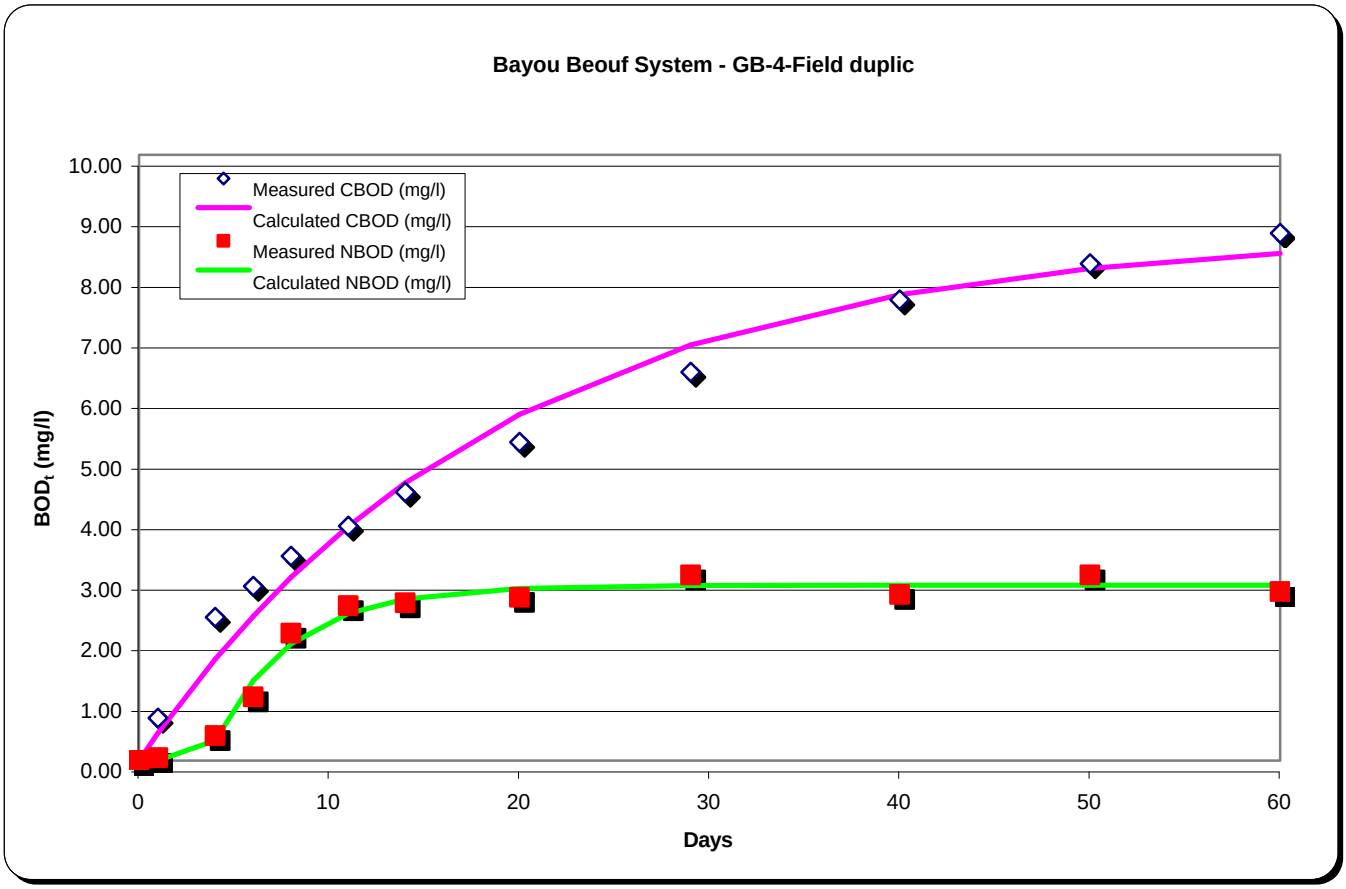
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - GB-4-Field duplic**

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		1.66				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	0.7	1.67	0.05	0.70	0.00	0.45
4	2.7	1.75	0.41	2.37	0.33	1.67
6	4.2	1.89	1.05	2.88	1.32	2.38
8	5.3	2.12	2.10	3.37	1.93	3.02
11	6.3	2.22	2.56	3.87	2.43	3.87
14	7.1	2.23	2.60	4.43	2.67	4.58
20	8.1	2.25	2.70	5.26	2.84	5.72
29	9.3	2.33	3.06	6.41	2.89	6.86
40	10.5	2.26	2.74	7.61	2.89	7.69
50	11.1	2.33	3.06	8.21	2.89	8.12
60	11.6	2.27	2.79	8.71	2.89	8.38

2.89	8.74	**UBOD (mg/l)**
0.24	0.05	**k rate (1/day)**
3.50	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

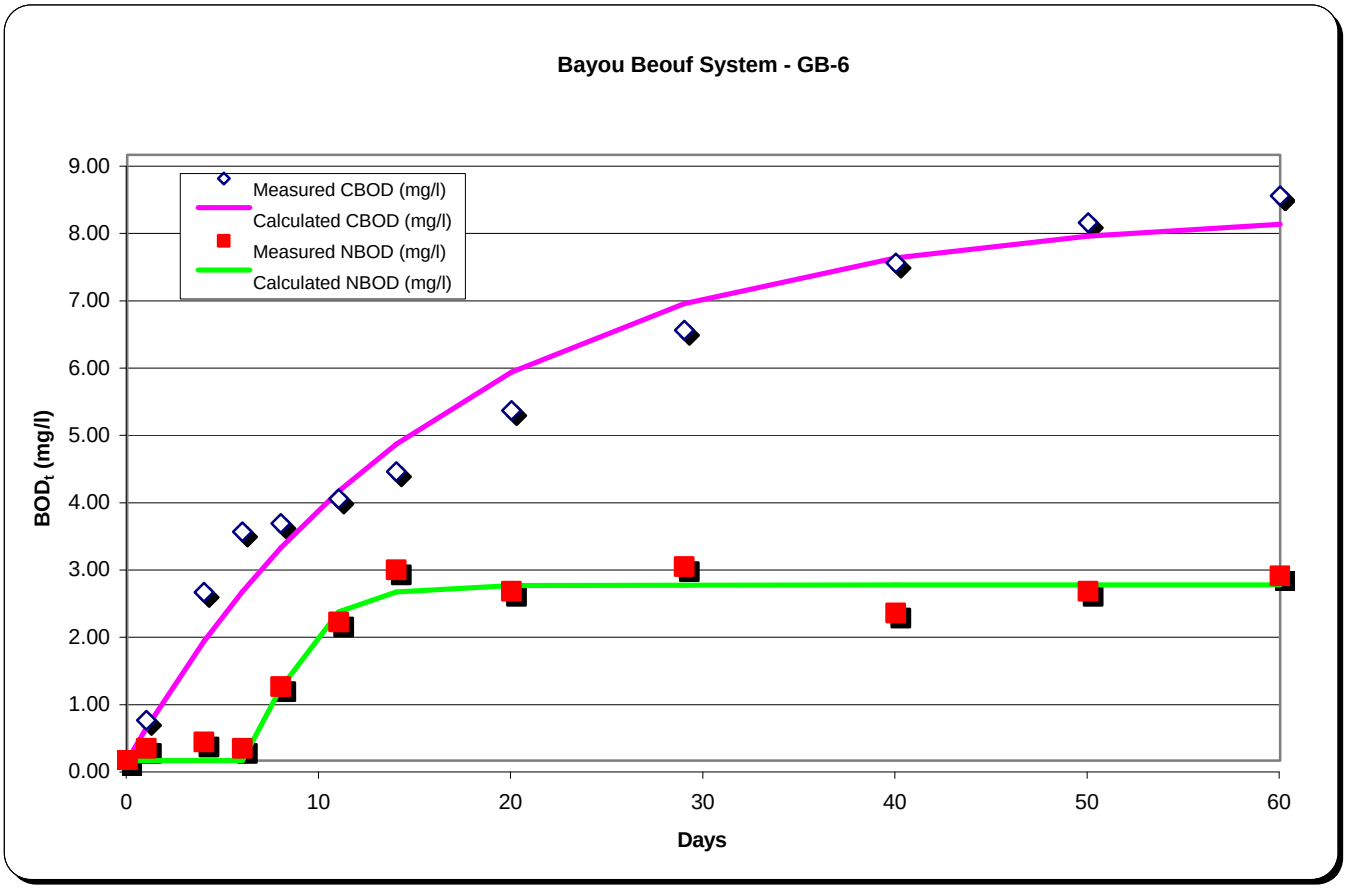
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - GB-6**

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		2.56				
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	0.6	2.60	0.18	0.60	0.00	0.49
4	2.5	2.62	0.27	2.50	0.00	1.77
6	3.4	2.60	0.18	3.40	0.00	2.51
8	4.6	2.80	1.10	3.52	1.08	3.16
11	6.1	3.01	2.06	3.89	2.21	4.00
14	6.8	3.18	2.83	4.29	2.51	4.70
20	7.8	3.11	2.51	5.20	2.60	5.77
29	9.0	3.19	2.88	6.39	2.61	6.79
40	10.0	3.04	2.19	7.39	2.61	7.47
50	10.6	3.11	2.51	7.99	2.61	7.79
60	11.0	3.16	2.74	8.39	2.61	7.97

2.61	8.18	**UBOD (mg/l)**
0.45	0.06	**k rate (1/day)**
6.82	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

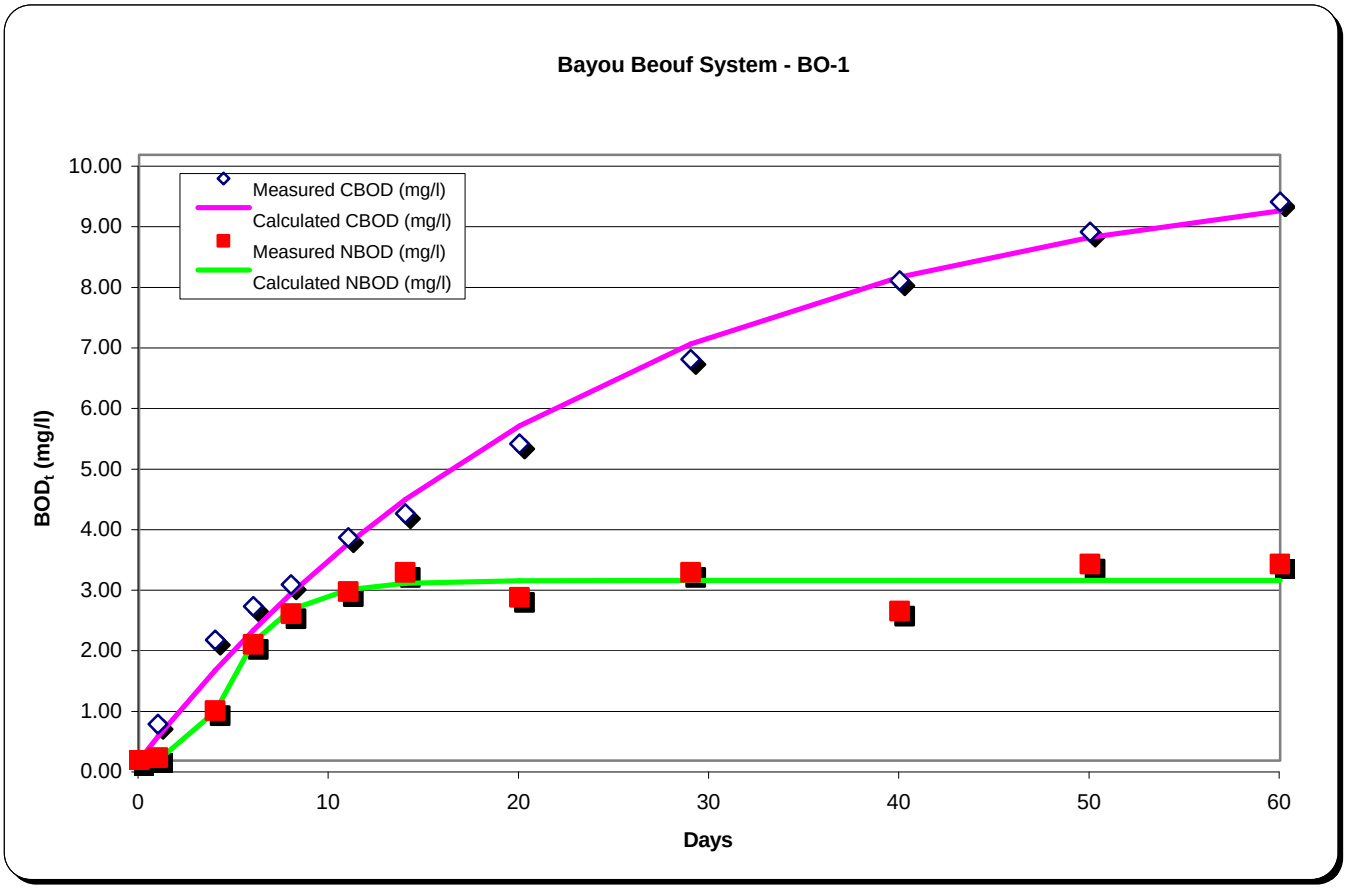
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - BO-1**

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		0.88				
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	0.6	0.89	0.05	0.60	0.00	0.40
4	2.8	1.06	0.82	1.99	0.81	1.49
6	4.5	1.30	1.92	2.55	1.95	2.15
8	5.4	1.41	2.42	2.91	2.49	2.76
11	6.5	1.49	2.79	3.68	2.82	3.58
14	7.0	1.56	3.11	4.08	2.92	4.31
20	8.2	1.47	2.70	5.23	2.97	5.53
29	9.6	1.56	3.11	6.63	2.97	6.88
40	10.9	1.42	2.47	7.93	2.97	7.98
50	11.7	1.59	3.24	8.73	2.97	8.64
60	12.2	1.59	3.24	9.23	2.97	9.08

2.97	9.95	**UBOD (mg/l)**
0.38	0.04	**k rate (1/day)**
3.16	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

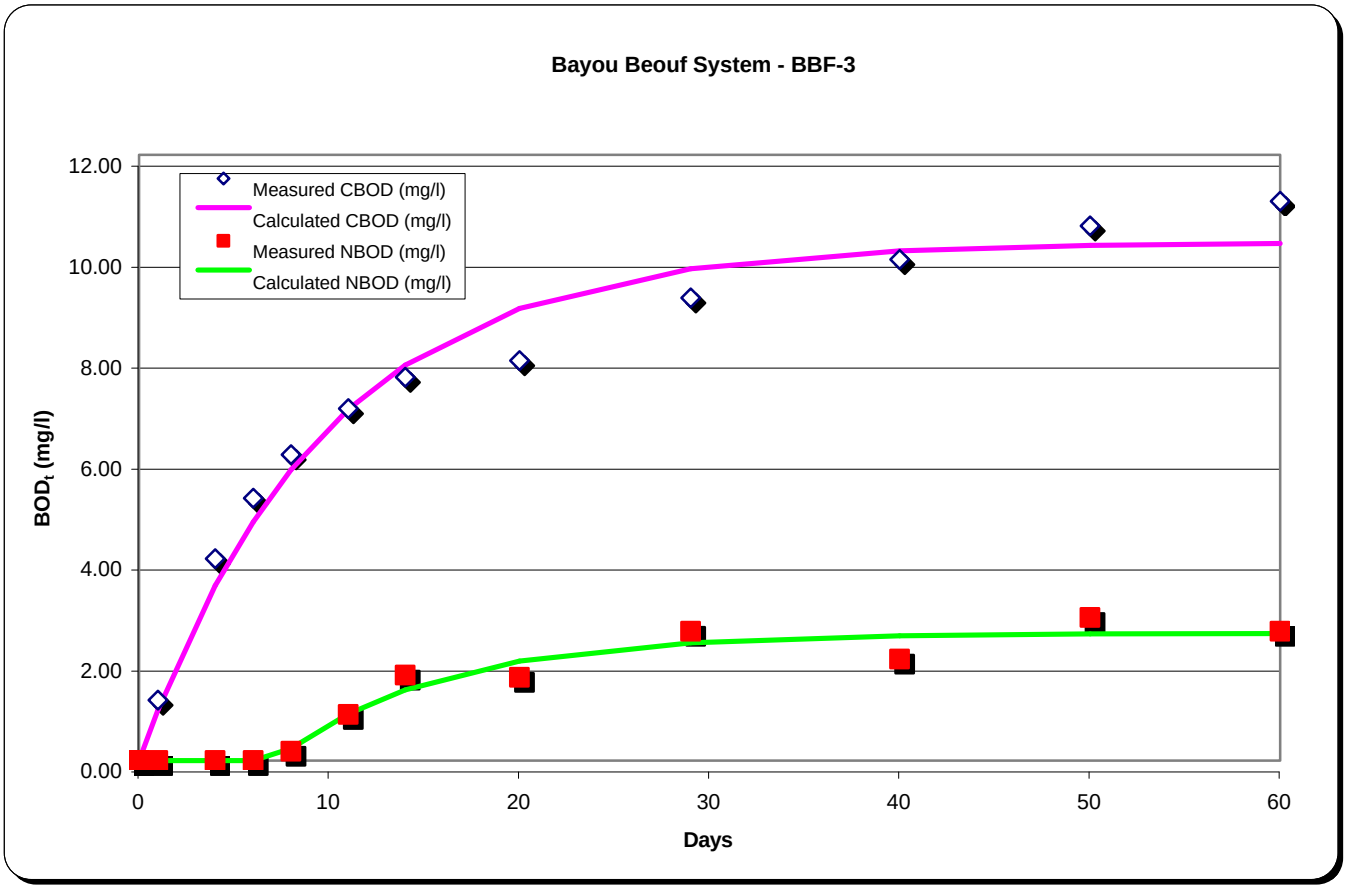
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - BBF-3**

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		2.08				
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
0	0.00	0.00			0.00	0.00
1	1.2	2.04	0.00	1.20	0.00	1.00
4	4.0	2.06	0.00	4.00	0.00	3.47
6	5.2	2.02	0.00	5.20	0.00	4.73
8	6.3	2.12	0.18	6.06	0.24	5.76
11	7.9	2.28	0.91	6.98	0.92	6.96
14	9.0	2.45	1.69	7.60	1.40	7.84
20	9.9	2.44	1.65	7.93	1.97	8.96
29	11.5	2.64	2.56	9.17	2.33	9.75
40	12.4	2.52	2.01	9.93	2.47	10.10
50	13.1	2.70	2.83	10.59	2.51	10.20
60	13.6	2.64	2.56	11.08	2.52	10.24

2.52	10.26	**UBOD (mg/l)**
0.12	0.10	**k rate (1/day)**
7.15	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

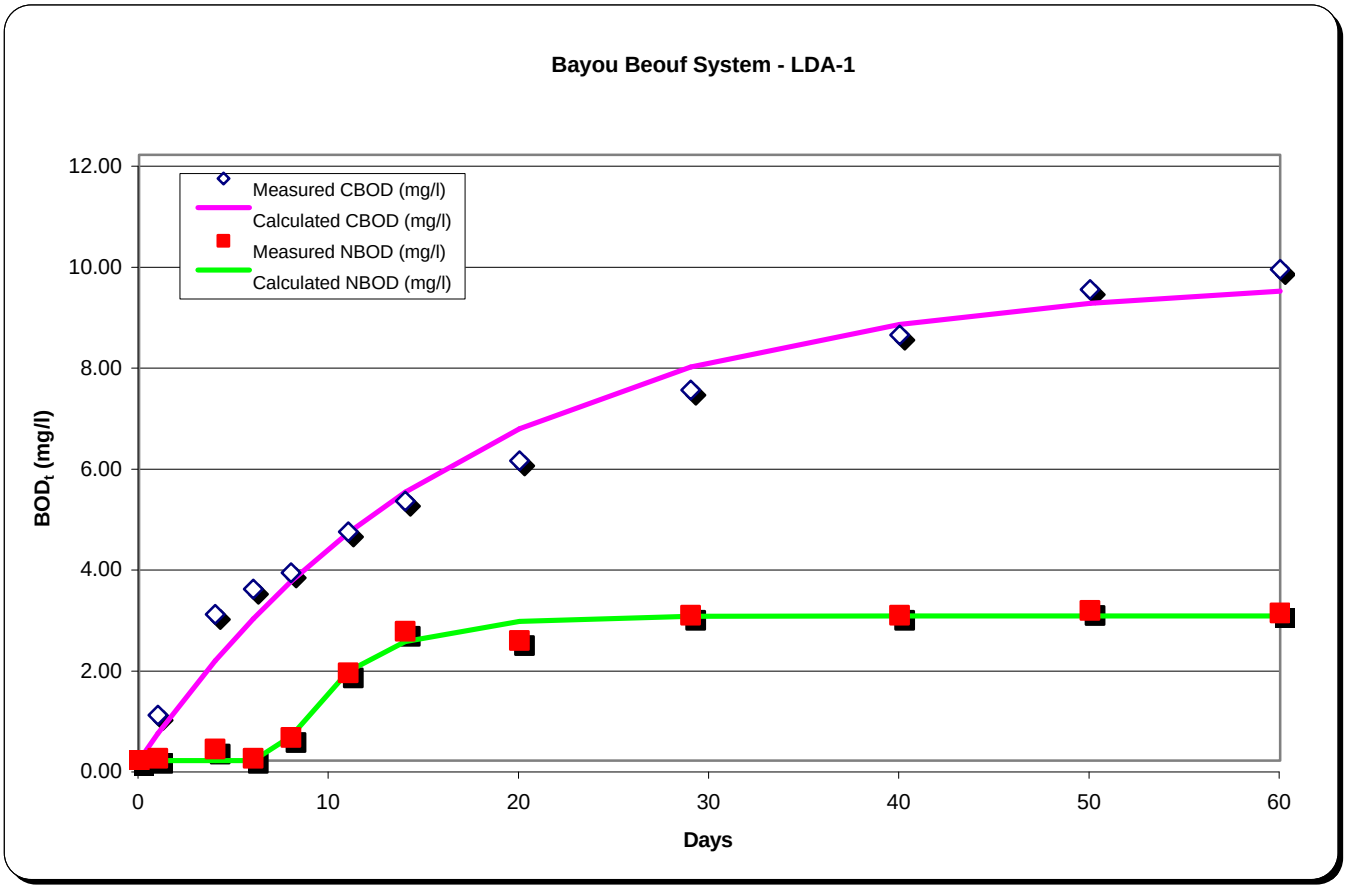
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - LDA-1**

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		0.80				
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	0.81	0.05	0.90	0.00	0.54
4	2.9	0.85	0.23	2.90	0.00	1.98
6	3.4	0.81	0.05	3.40	0.00	2.81
8	4.2	0.90	0.46	3.72	0.48	3.55
11	6.3	1.18	1.74	4.53	1.77	4.51
14	7.5	1.36	2.56	5.14	2.36	5.32
20	8.7	1.32	2.38	5.94	2.76	6.57
29	10.2	1.43	2.88	7.34	2.86	7.80
40	11.3	1.43	2.88	8.43	2.87	8.64
50	12.2	1.45	2.97	9.33	2.87	9.06
60	12.6	1.44	2.92	9.73	2.87	9.30

2.87	9.60	**UBOD (mg/l)**
0.26	0.06	**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.

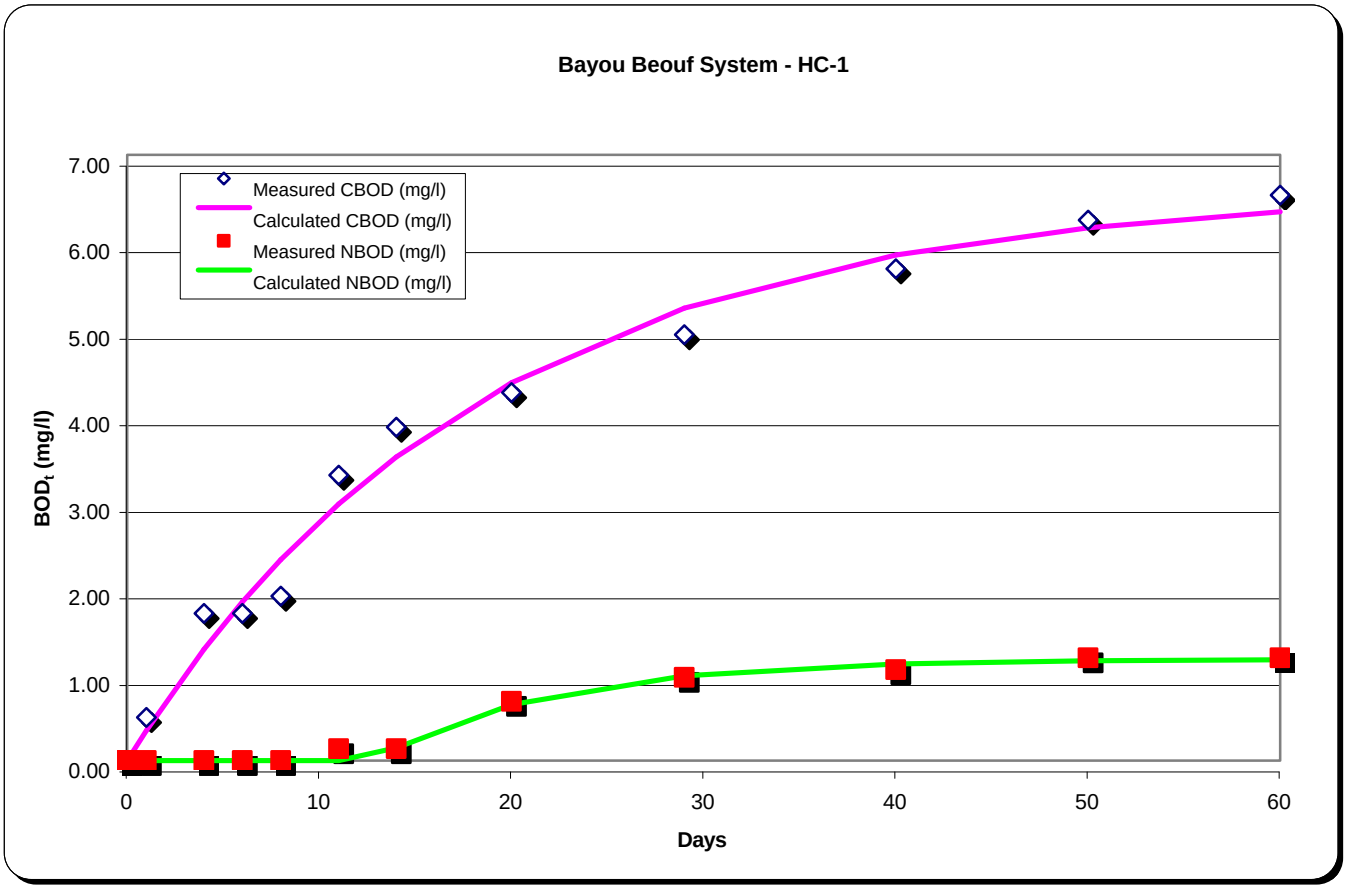
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - HC-1**

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	0.5	0.05	0.00	0.50	0.00	0.35
4	1.7	0.05	0.00	1.70	0.00	1.29
6	1.7	0.05	0.00	1.70	0.00	1.83
8	1.9	0.05	0.00	1.90	0.00	2.32
11	3.3	0.08	0.14	3.30	0.00	2.96
14	4.0	0.08	0.14	3.85	0.15	3.51
20	4.9	0.20	0.69	4.25	0.65	4.37
29	5.9	0.26	0.96	4.92	0.98	5.23
40	6.8	0.28	1.05	5.68	1.12	5.84
50	7.4	0.31	1.19	6.25	1.15	6.16
60	7.7	0.31	1.19	6.53	1.17	6.34

1.17	6.59	**UBOD (mg/l)**
0.11	0.05	**k rate (1/day)**
12.78	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.

Instructions for the worksheet:

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

Survey Stream and date: **Bayou Beouf System**

Sample Collection date: **Analysis Start date:** 06/19/03

Total BOD data

Item No.	Sample No.	06/19/03			06/20/03	06/23/03	06/25/03	06/27/03	06/30/03	07/03/03	07/09/03	07/18/03	07/24/03	07/29/03	08/08/03	08/18/03
		Daily analysis start dates:														
1	LB-1				0.8	2.8	3.3	4.1	6.1	7.5	9.2	10.7	11.5	12.0	12.9	13.3
2	LB-2				1.1	3.5	4.0	4.7	6.3	7.3	9.2	11.0	11.9	12.5	13.5	13.9
3	BBF-1				0.9	2.9	3.3	3.7	5.6	6.7	8.1	9.5	10.4	10.8	11.7	12.0
4	HC-2				1.1	3.5	3.9	4.4	5.8	7.1	8.7	10.4	11.2	11.7	12.7	13.1
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

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

Item No.	Sample No.	06/19/03			06/20/03	06/23/03	06/25/03	06/27/03	06/30/03	07/03/03	07/09/03	07/18/03	07/24/03	07/29/03	08/08/03	08/18/03
		Daily analysis start dates:														
1	LB-1	0.05			0.05	0.05	0.05	0.05	0.18	0.24	0.38	0.52	0.52	0.49	0.57	0.57
2	LB-2	0.05			0.05	0.05	0.05	0.05	0.18	0.16	0.31	0.41	0.45	0.45	0.51	0.52
3	BBF-1	0.05			0.05	0.05	0.05	0.05	0.09	0.17	0.26	0.36	0.38	0.36	0.42	0.43
4	HC-2	0.05			0.05	0.05	0.05	0.06	0.08	0.09	0.31	0.42	0.43	0.42	0.48	0.48
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

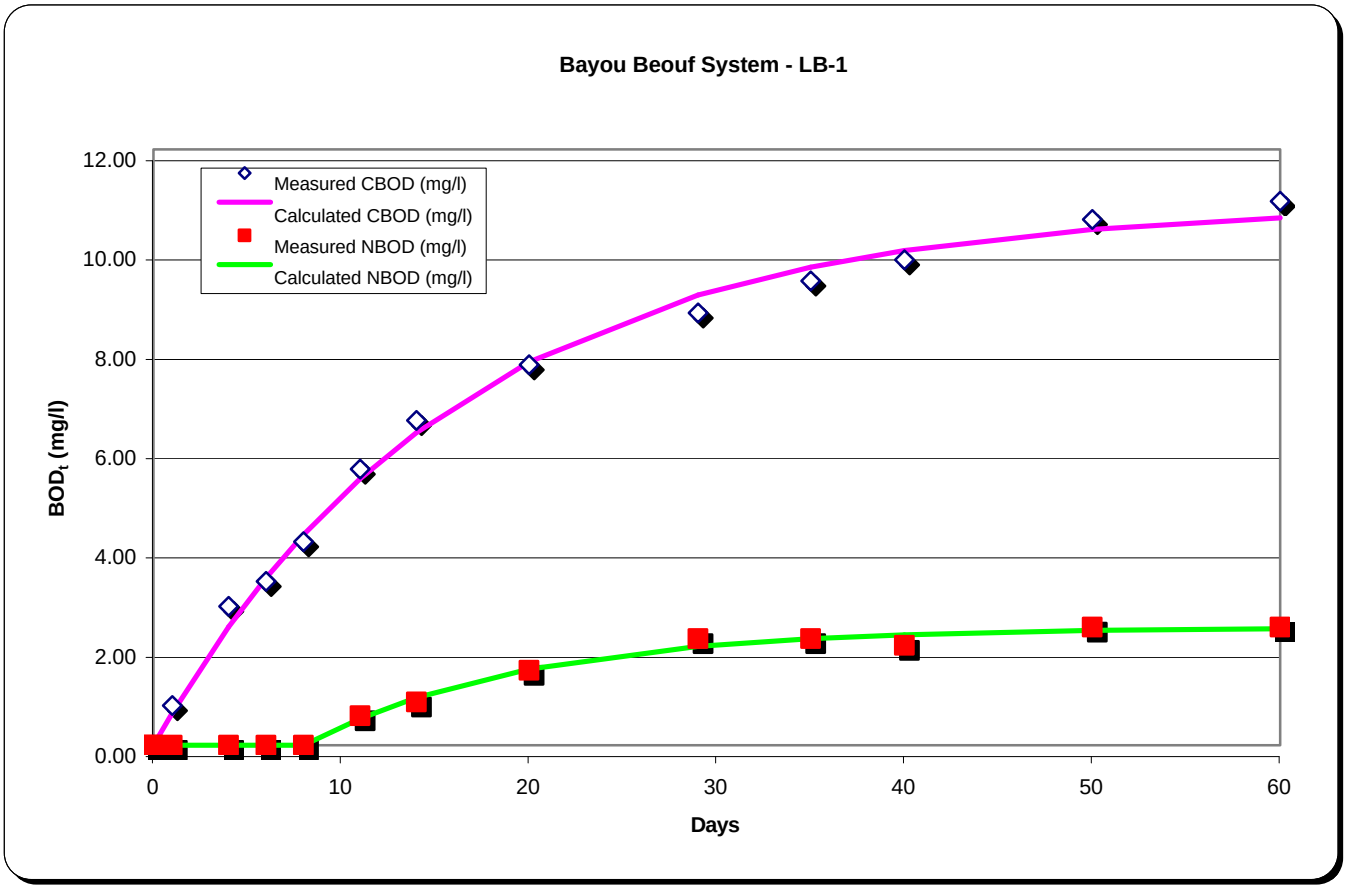
ALL ND's have been replaced with 0.05

FILE: R:\PROJECTS\3110-051\BEOUF PDF\GSBOD_FOR BEOUF-11 PTS.XLS

BOD Analysis of the for: **Bayou Beouf System - LB-1**

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
1	0.8	0.05	0.00	0.80	0.00	0.65
4	2.8	0.05	0.00	2.80	0.00	2.38
6	3.3	0.05	0.00	3.30	0.00	3.37
8	4.1	0.05	0.00	4.10	0.00	4.24
11	6.1	0.18	0.59	5.56	0.54	5.37
14	7.5	0.24	0.87	6.54	0.96	6.30
20	9.2	0.38	1.51	7.66	1.54	7.72
29	10.7	0.52	2.15	8.71	1.99	9.07
35	11.5	0.52	2.15	9.35	2.15	9.63
40	12.0	0.49	2.01	9.77	2.23	9.96
50	12.9	0.57	2.38	10.59	2.31	10.39
60	13.3	0.57	2.38	10.95	2.35	10.62

2.37	10.89	**UBOD (mg/l)**
0.09	0.06	**k rate (1/day)**
8.07	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

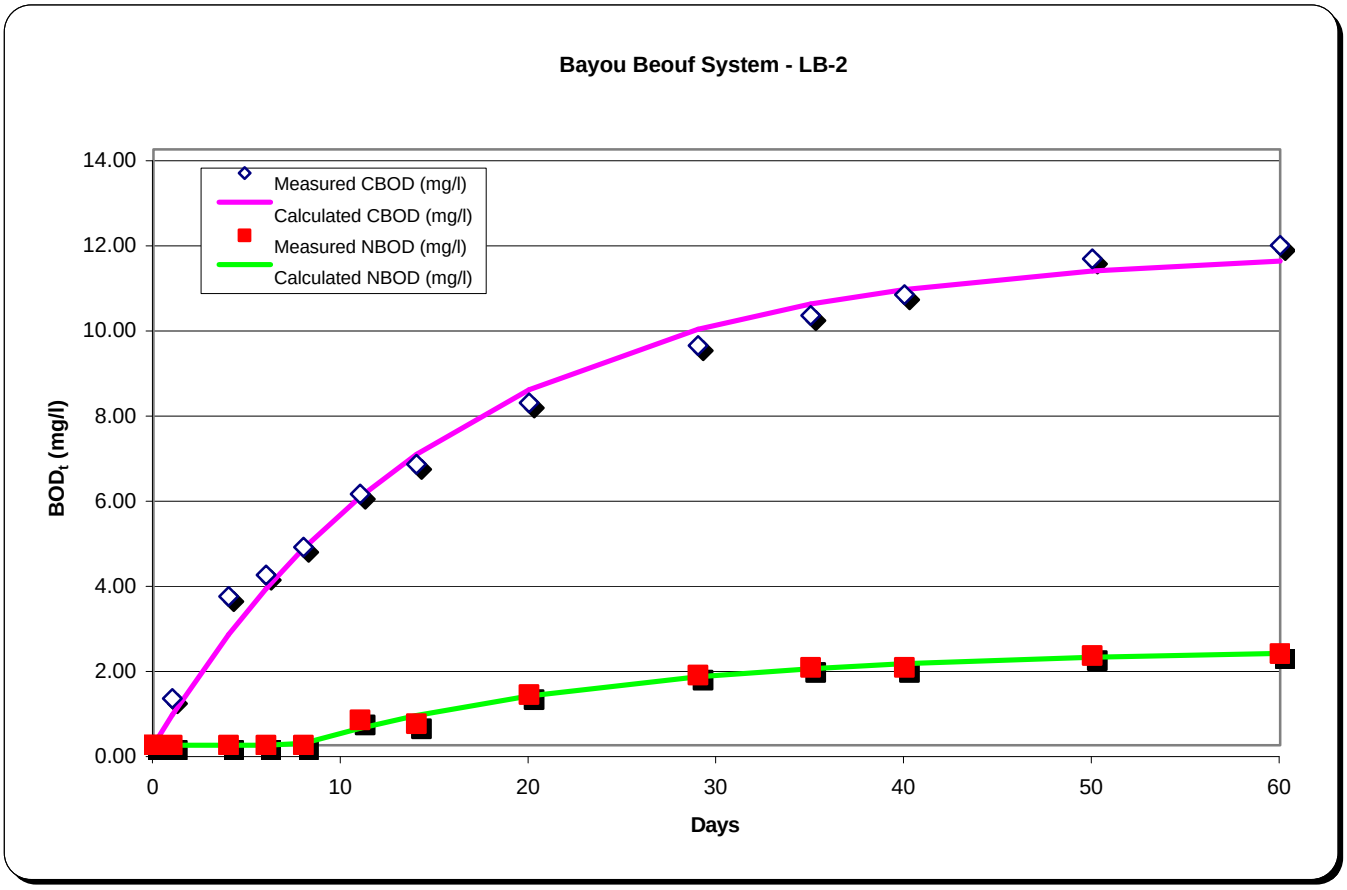
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - LB-2**

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
1	1.1	0.05	0.00	1.10	0.00	0.71
4	3.5	0.05	0.00	3.50	0.00	2.60
6	4.0	0.05	0.00	4.00	0.00	3.67
8	4.7	0.05	0.00	4.65	0.05	4.62
11	6.3	0.18	0.59	5.90	0.40	5.83
14	7.3	0.16	0.50	6.60	0.70	6.84
20	9.2	0.31	1.19	8.04	1.16	8.35
29	11.0	0.41	1.65	9.39	1.61	9.78
35	11.9	0.45	1.83	10.10	1.80	10.36
40	12.5	0.45	1.83	10.58	1.92	10.71
50	13.5	0.51	2.10	11.43	2.07	11.14
60	13.9	0.52	2.15	11.74	2.16	11.38

2.27	11.64	**UBOD (mg/l)**
0.06	0.06	**k rate (1/day)**
7.63	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

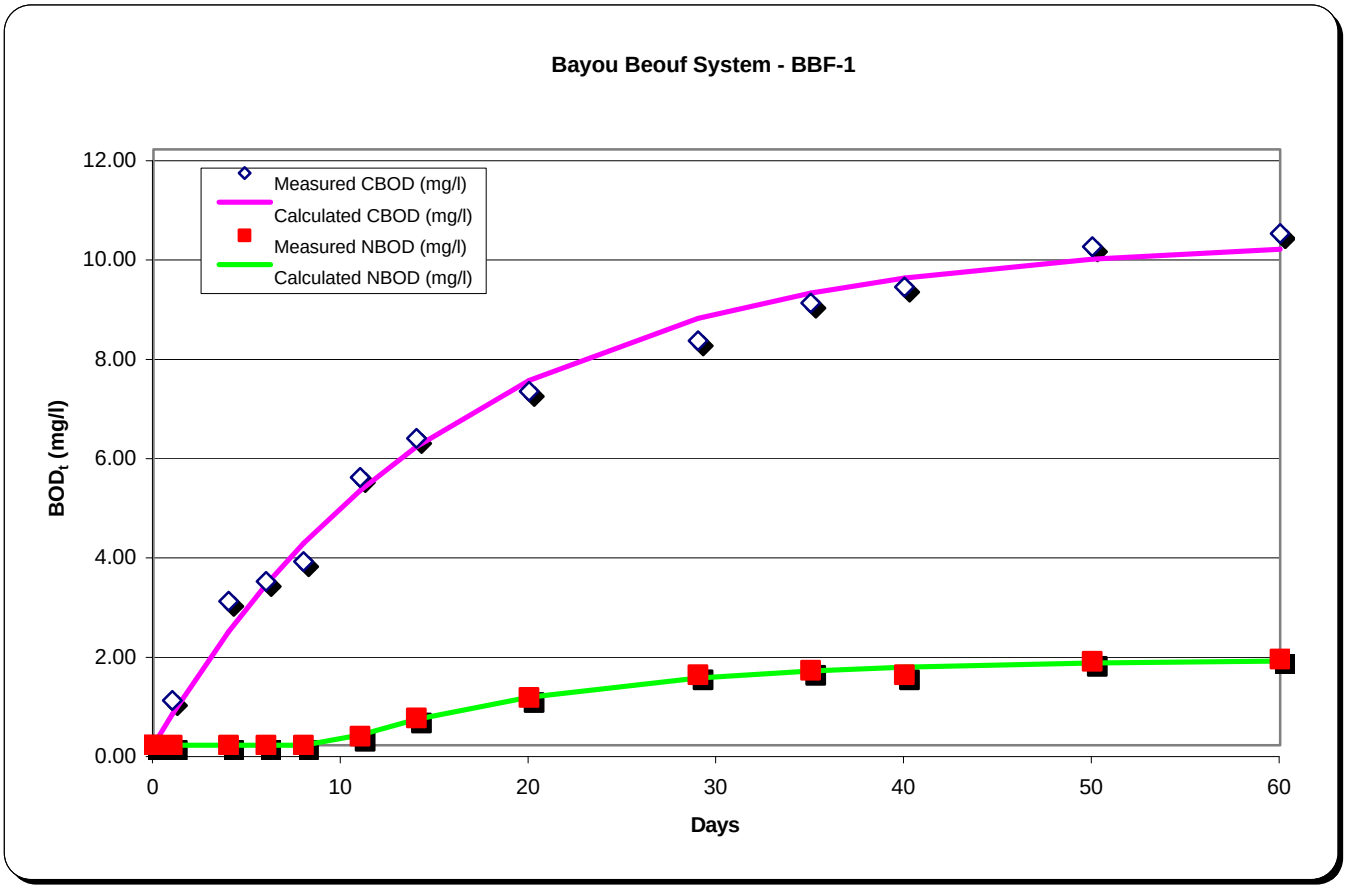
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - BBF-1**

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
1	0.9	0.05	0.00	0.90	0.00	0.63
4	2.9	0.05	0.00	2.90	0.00	2.29
6	3.3	0.05	0.00	3.30	0.00	3.23
8	3.7	0.05	0.00	3.70	0.00	4.07
11	5.6	0.09	0.18	5.40	0.20	5.13
14	6.7	0.17	0.55	6.18	0.52	6.01
20	8.1	0.26	0.96	7.13	0.97	7.35
29	9.5	0.36	1.42	8.15	1.35	8.60
35	10.4	0.38	1.51	8.91	1.49	9.11
40	10.8	0.36	1.42	9.23	1.57	9.41
50	11.7	0.42	1.69	10.04	1.66	9.79
60	12.0	0.43	1.74	10.30	1.70	9.99

1.73	10.22	**UBOD (mg/l)**
0.08	0.06	**k rate (1/day)**
9.38	0.00	**Lag time (days)**



Note 1 - Days from the BOD test start date.

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

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

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

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

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

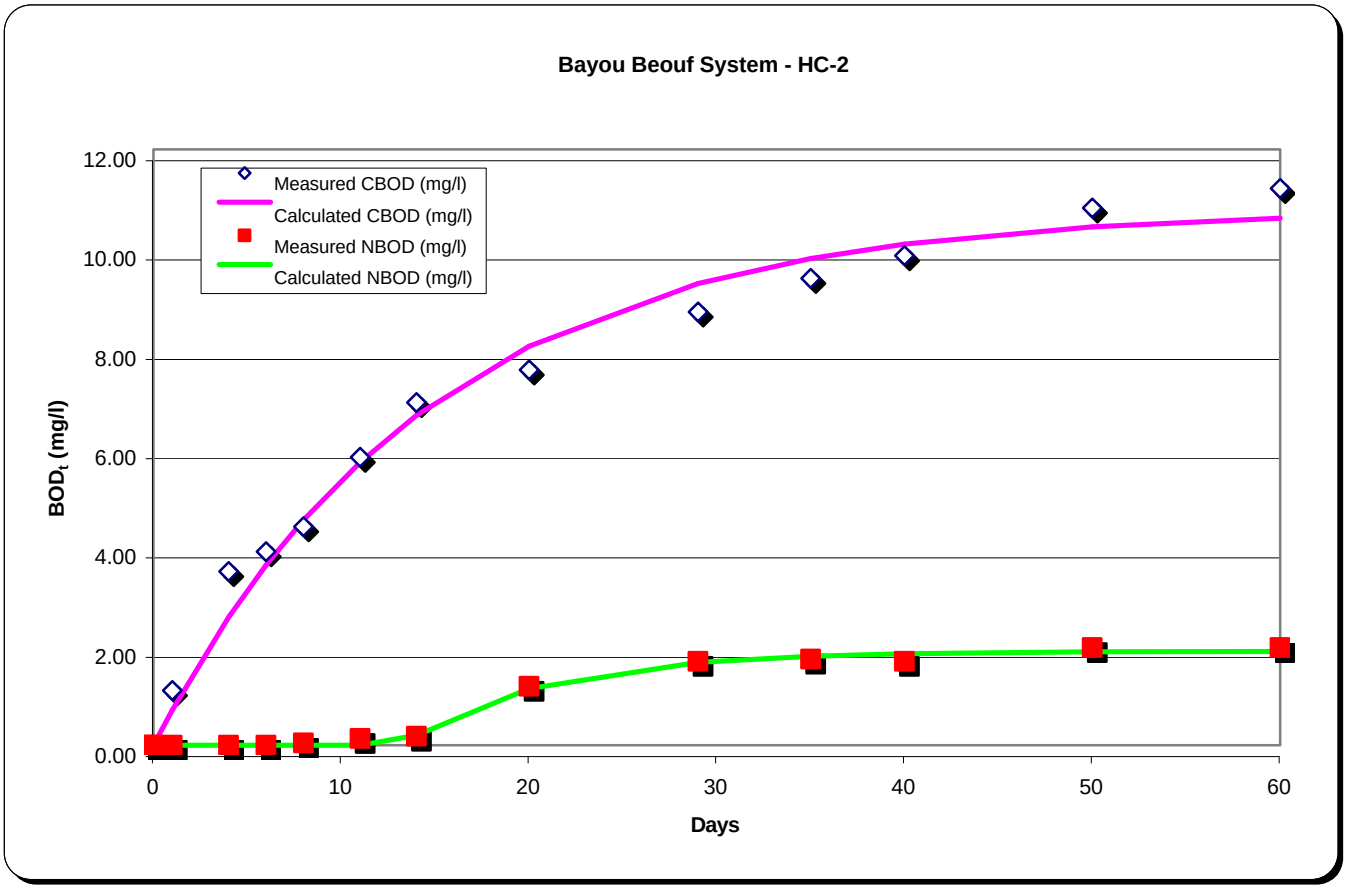
Note 7 - Calculated from the formula {CBODt=UCBOD[1-e-(k(t-lag))]} using the listed values of UCBOD, k decay rate and lag time.

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

BOD Analysis of the for: **Bayou Beouf System - HC-2**

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
1	1.1	0.05	0.00	1.10	0.00	0.71
4	3.5	0.05	0.00	3.50	0.00	2.58
6	3.9	0.05	0.00	3.90	0.00	3.63
8	4.4	0.06	0.05	4.40	0.00	4.54
11	5.8	0.08	0.14	5.80	0.00	5.70
14	7.1	0.09	0.18	6.90	0.20	6.64
20	8.7	0.31	1.19	7.56	1.14	8.04
29	10.4	0.42	1.69	8.73	1.67	9.30
35	11.2	0.43	1.74	9.41	1.79	9.80
40	11.7	0.42	1.69	9.86	1.84	10.09
50	12.7	0.48	1.97	10.82	1.88	10.44
60	13.1	0.48	1.97	11.21	1.89	10.62

1.89	10.80	**UBOD (mg/l)**
0.14	0.07	**k rate (1/day)**
13.17	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: BO-1 **Subsegment:** 020101 **Waterbody:** Bayou Onion

Site Description: .5 Miles West of Grand Bayou

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

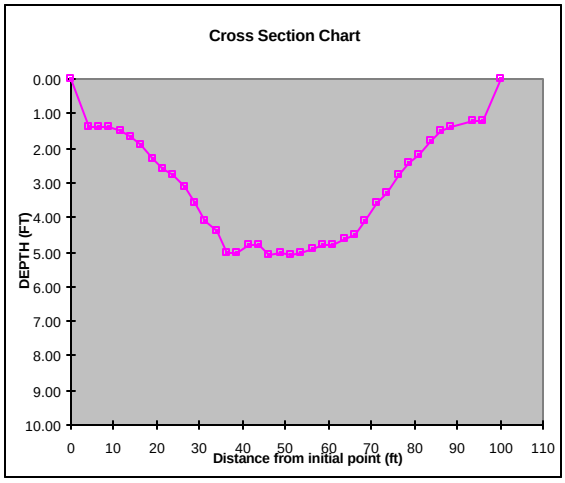
Tapedown: 3.9 ft

Guage Height:

Date: 6/17/03

WIDTH[1] (ft):	100.00
AREA[2] (ft^2):	306.64
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	2.00	0.00	0.00	
2	4.0	3.25	1.40	4.54	1.48%
3	6.5	2.49	1.40	3.49	1.14%
4	9.0	2.49	1.40	3.49	1.14%
5	11.5	2.49	1.50	3.74	1.22%
6	14.0	2.49	1.70	4.23	1.38%
7	16.5	2.49	1.90	4.73	1.54%
8	18.9	2.49	2.30	5.73	1.87%
9	21.4	2.49	2.60	6.47	2.11%
10	23.9	2.49	2.80	6.97	2.27%
11	26.4	2.49	3.10	7.72	2.52%
12	28.9	2.49	3.60	8.96	2.92%
13	31.4	2.49	4.10	10.21	3.33%
14	33.9	2.49	4.40	10.96	3.57%
15	36.4	2.49	5.00	12.45	4.06%
16	38.9	2.49	5.00	12.45	4.06%
17	41.4	2.49	4.80	11.95	3.90%
18	43.8	2.49	4.80	11.95	3.90%
19	46.3	2.49	5.10	12.70	4.14%
20	48.8	2.49	5.00	12.45	4.06%
21	51.3	2.49	5.10	12.70	4.14%
22	53.8	2.49	5.00	12.45	4.06%
23	56.3	2.49	4.90	12.20	3.98%
24	58.8	2.49	4.80	11.95	3.90%
25	61.3	2.49	4.80	11.95	3.90%
26	63.8	2.49	4.60	11.45	3.74%
27	66.3	2.49	4.50	11.21	3.65%
28	68.7	2.49	4.10	10.21	3.33%
29	71.2	2.49	3.60	8.96	2.92%
30	73.7	2.49	3.30	8.22	2.68%
31	76.2	2.49	2.80	6.97	2.27%
32	78.7	2.49	2.40	5.98	1.95%
33	81.2	2.49	2.20	5.48	1.79%
34	83.7	2.49	1.80	4.48	1.46%
35	86.2	2.49	1.50	3.73	1.22%
36	88.7	3.72	1.40	5.20	1.70%
37	93.6	3.72	1.20	4.46	1.46%
38	96.1	3.20	1.20	3.84	1.25%
39	100.0	1.95	0.00	0.00	0.00%
40					
	Total	100.00		306.64	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Garner	Data Inputed by / Date:	Garner 6/20/03
Notetaker/Recorder:	Hughes	Data Input Checked by / Date:	Hughes 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: GB 4 **Subsegment:** 020101 **Waterbody:** Grand Bayou

Site Description: 4.4 miles east of Hwy. 20

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/17/03

WIDTH[1] (ft):	88.00
AREA[2] (ft^2):	346.40
AVG. DEPTH[3] (ft):	3.94

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	8.00	0.00	0.00	0.00%
3	16.0	8.00	2.50	20.00	5.77%
4	24.0	8.00	4.50	36.00	10.39%
5	32.0	8.00	5.70	45.60	13.16%
6	40.0	8.00	6.20	49.60	14.32%
7	48.0	8.00	6.60	52.80	15.24%
8	56.0	8.00	6.10	48.80	14.09%
9	64.0	8.00	5.10	40.80	11.78%
10	72.0	8.00	4.10	32.80	9.47%
11	80.0	8.00	2.50	20.00	5.77%
12	88.0	4.00	0.00	0.00	0.00%
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
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24					
25					
26					
27					
28					
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30					
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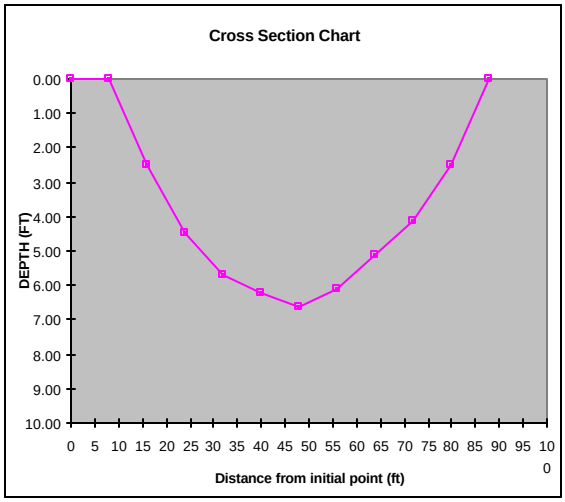
34					
35					
36					
37					
38					
39					
40					
	Total	88.00		346.40	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Lafleur, Fontenot	Data Inputed by / Date:	Brignac 7-2-03
Notetaker/Recorder:	Lafleur, Fontenot	Data Input Checked by / Date:	Hughes 7-2-03
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: GB 6 **Subsegment:** 020101 **Waterbody:** Grand Bayou

Site Description: 3.0 Miles west of B. Boeuf

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

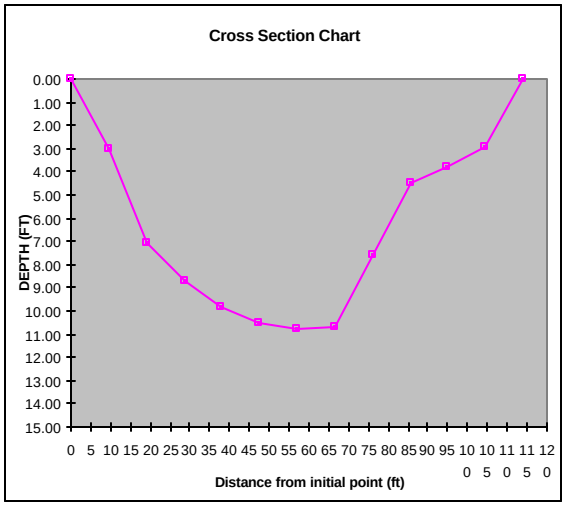
Tapedown:

Guage Height:

Date: 6/17/03

WIDTH[1] (ft):	114.00
AREA[2] (ft^2):	754.30
AVG. DEPTH[3] (ft):	6.62

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	4.75	0.00	0.00	
2	9.5	9.50	3.00	28.50	3.78%
3	19.0	9.50	7.10	67.45	8.94%
4	28.5	9.50	8.70	82.65	10.96%
5	38.0	9.50	9.80	93.10	12.34%
6	47.5	9.50	10.50	99.75	13.22%
7	57.0	9.50	10.80	102.60	13.60%
8	66.5	9.50	10.70	101.65	13.48%
9	76.0	9.50	7.60	72.20	9.57%
10	85.5	9.50	4.50	42.75	5.67%
11	95.0	9.50	3.80	36.10	4.79%
12	104.5	9.50	2.90	27.55	3.65%
13	114.0	4.75	0.00	0.00	0.00%
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
	Total	114.00		754.30	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	LaFleur, Fontenot	Data Inputed by / Date:	Brignac 7-2-03
Notetaker/Recorder:	LaFleur, Fontenot	Data Input Checked by / Date:	Hughes 7-2-03
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: HC-1 **Subsegment:** 020102 **Waterbody:** Lower Halpen Canal

Site Description: Ariel Plantation Road SW of Lake Boeuf

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown: NA

Guage Height: NA

Date: 6/17/03

WIDTH[1] (ft):	76.00
AREA[2] (ft^2):	188.90
AVG. DEPTH[3](ft):	2.49

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	3.50	0.00	0.00	
2	7.0	5.76	2.14	12.32	6.52%
3	11.5	4.51	2.14	9.65	5.11%
4	16.0	4.51	2.38	10.73	5.68%
5	20.5	4.51	2.74	12.36	6.54%
6	25.0	4.51	2.80	12.63	6.68%
7	29.6	4.51	2.80	12.63	6.68%
8	34.1	4.51	2.90	13.08	6.92%
9	38.6	4.51	3.10	13.98	7.40%
10	43.1	4.51	3.40	15.33	8.12%
11	47.6	4.51	3.70	16.69	8.83%
12	52.1	4.51	3.40	15.33	8.12%
13	56.6	4.51	3.00	13.53	7.16%
14	61.1	4.51	2.38	10.73	5.68%
15	65.6	3.95	2.14	8.44	4.47%
16	69.0	2.26	2.14	4.83	2.55%
17	70.1	3.50	1.90	6.64	3.52%
18	76.0	2.93	0.00	0.00	0.00%
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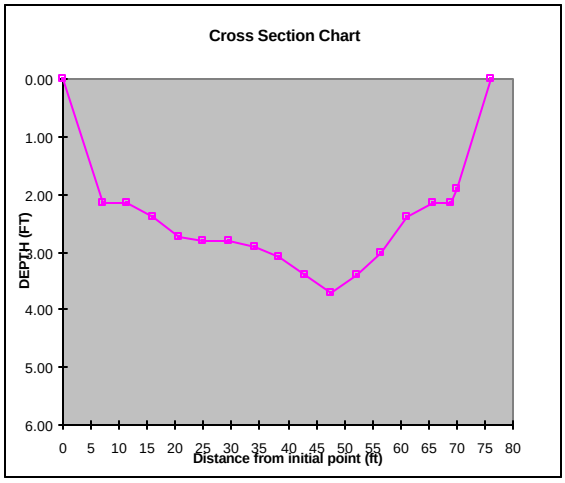
	Total	76.00		188.90	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Brignac/Phillippe	Data Inputed by / Date:	Phillippe 06/20/03
Notetaker/Recorder:	Jones	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: HC-2 **Subsegment:** 020102 **Waterbody:** Lower Halpen Canal

Site Description: 3.5 miles north of HC-1

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown: NA

Guage Height: NA

Date: 6/17/03

WIDTH[1] (ft):	80.00
AREA[2] (ft^2):	352.91
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	2.00	0.00	0.00	
2	4.0	5.30	2.90	15.37	4.36%
3	10.6	6.60	3.40	22.44	6.36%
4	17.2	6.60	4.70	31.02	8.79%
5	23.8	6.60	5.47	36.10	10.23%
6	30.4	6.60	6.30	41.58	11.78%
7	37.0	6.60	6.50	42.90	12.16%
8	43.6	6.60	6.30	41.58	11.78%
9	50.2	6.60	5.90	38.94	11.03%
10	56.8	6.60	4.90	32.34	9.16%
11	63.4	6.60	3.90	25.74	7.29%
12	70.0	8.30	3.00	24.90	7.06%
13	80.0	5.00	0.00	0.00	0.00%
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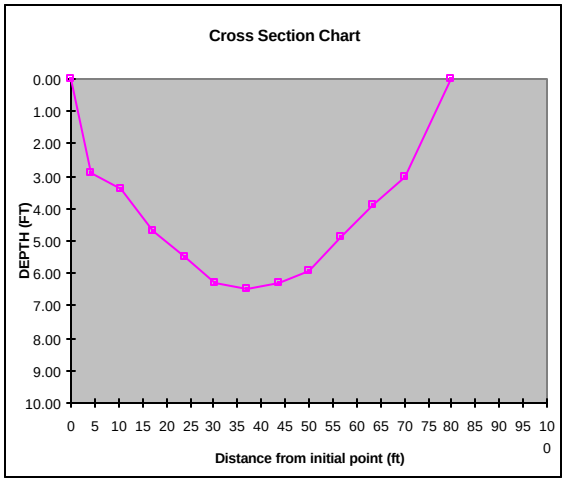
	Total	80.00		352.91	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Brignac/Phillippe	Data Inputed by / Date:	Phillippe 06/20/03
Notetaker/Recorder:	Jones	Data Input Checked by / Date:	Brignac 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: LPC-1 **Subsegment:** 020101 **Waterbody:** LaPeans Canal

Site Description: 0.7 Miles SW of Grand Bayou

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/17/03

WIDTH[1] (ft):	60.00
AREA[2] (ft^2):	194.25
AVG. DEPTH[3] (ft):	3.24

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	3.75	0.00	0.00	
2	7.5	7.50	1.10	8.25	4.25%
3	15.0	7.50	3.30	24.75	12.74%
4	22.5	7.50	4.10	30.75	15.83%
5	30.0	7.50	4.90	36.75	18.92%
6	37.5	7.50	4.70	35.25	18.15%
7	45.0	7.50	4.50	33.75	17.37%
8	52.5	7.50	3.30	24.75	12.74%
9	60.0	3.75	0.00	0.00	0.00%
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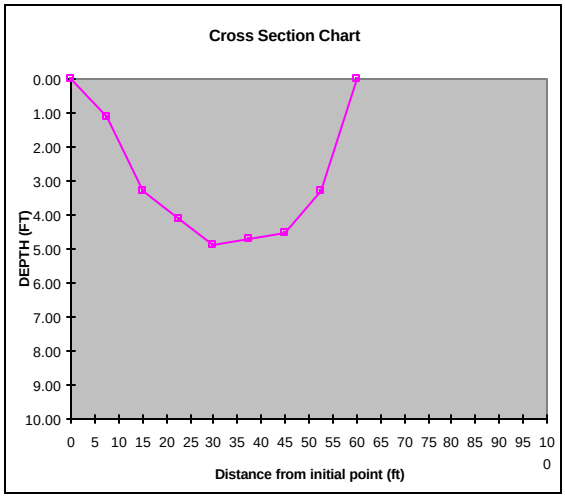
	Total	60.00		194.25	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	LaFleur, Fontenot	Data Inputed by / Date:	Brignac 7-2-03
Notetaker/Recorder:	LaFleur, Fontenot	Data Input Checked by / Date:	Hughes 7-2-03
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: BBF1Run1Top **Subsegment:** 020102 **Waterbody:** Bayou Bouef

Site Description: BBF1Run1Top

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	182.00
AREA[2] (ft^2):	799.54
AVG. DEPTH[3](ft):	4.39

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	7.60	2.10	15.96	2.00%
3	15.2	10.20	2.30	23.46	2.93%
4	25.4	10.20	2.60	26.52	3.32%
5	35.6	10.20	2.90	29.58	3.70%
6	45.8	10.20	3.60	36.72	4.59%
7	56.0	10.20	4.70	47.94	6.00%
8	66.2	10.20	6.40	65.28	8.16%
9	76.4	10.20	7.70	78.54	9.82%
10	86.6	10.20	8.40	85.68	10.72%
11	96.8	10.20	7.50	76.50	9.57%
12	107.0	10.20	6.70	68.34	8.55%
13	117.2	10.20	5.80	59.16	7.40%
14	127.4	10.20	4.70	47.94	6.00%
15	137.6	10.20	3.40	34.68	4.34%
16	147.8	10.20	2.80	28.56	3.57%
17	158.0	15.10	2.80	42.28	5.29%
18	178.0	12.00	2.70	32.40	4.05%
19	182.0	2.00	0.00	0.00	0.00%
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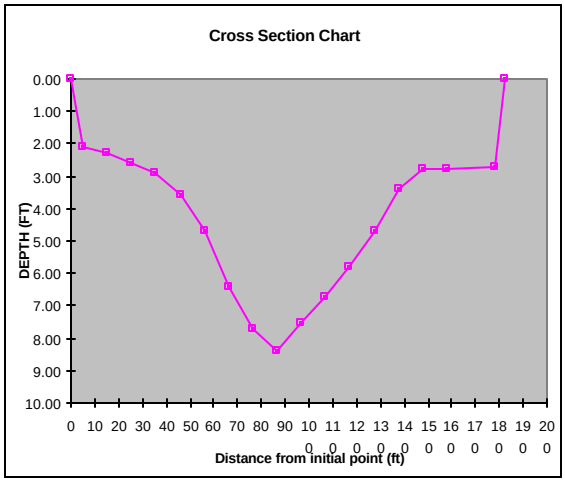
	Total	182.00		799.54	100.00%



Data Collection Crew	Butler, Griff, Farlow	Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Butler	Data Input Checked by	37798.00
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: BBf1Run1End **Subsegment:** 020102 **Waterbody:** Bayou Boeuf

Site Description: Bayou Beouf 1 Run 1 End

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	150.00
AREA[2] (ft^2):	635.96
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	7.50	0.00	0.00	
2	15.0	10.95	2.30	25.17	3.96%
3	21.9	6.89	2.70	18.60	2.93%
4	28.8	6.89	3.00	20.67	3.25%
5	35.7	6.89	3.10	21.36	3.36%
6	42.6	6.89	3.30	22.74	3.58%
7	49.5	6.89	3.80	26.18	4.12%
8	56.3	6.89	4.50	31.01	4.88%
9	63.2	6.89	5.40	37.21	5.85%
10	70.1	6.89	6.40	44.10	6.93%
11	77.0	6.89	7.90	54.43	8.56%
12	83.9	6.89	8.40	57.88	9.10%
13	90.8	6.89	8.00	55.12	8.67%
14	97.7	6.89	7.60	52.36	8.23%
15	104.6	6.89	6.60	45.47	7.15%
16	111.5	6.89	5.50	37.90	5.96%
17	118.4	6.89	4.10	28.25	4.44%
18	125.2	6.89	2.70	18.60	2.93%
19	132.1	10.38	2.20	22.84	3.59%
20	146.0	8.94	1.80	16.08	2.53%
21	150.0	2.00	0.00	0.00	0.00%
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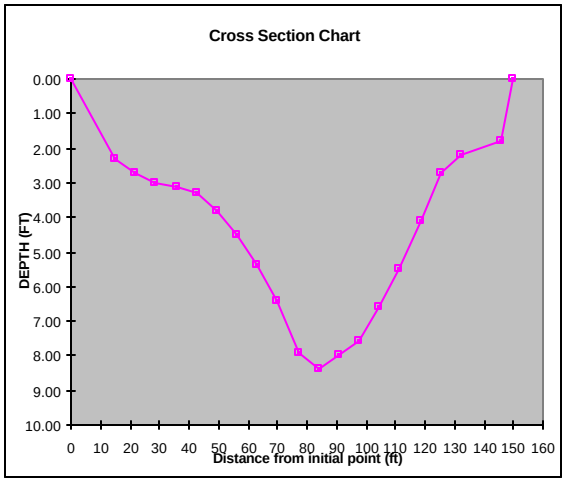
40					
	Total	150.00		635.96	100.00%



Data Collection Crew	Griff, Butler, Farlow	Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Butler	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: BBf1Run2Top **Subsegment:** 020102 **Waterbody:** Bayou Boeuf

Site Description: Bayou Boeuf 1 Run 2 Top

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	148.00
AREA[2] (ft^2):	651.42
AVG. DEPTH[3](ft):	4.40

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	8.56	2.30	19.68	3.02%
3	17.1	7.11	2.40	17.06	2.62%
4	24.2	7.11	2.80	19.91	3.06%
5	31.3	7.11	3.50	24.89	3.82%
6	38.4	7.11	4.70	33.42	5.13%
7	45.6	7.11	5.70	40.53	6.22%
8	52.7	7.11	6.80	48.35	7.42%
9	59.8	7.11	7.70	54.75	8.40%
10	66.9	7.11	8.30	59.01	9.06%
11	74.0	7.11	8.50	60.44	9.28%
12	81.1	7.11	7.80	55.46	8.51%
13	88.2	7.11	6.70	47.64	7.31%
14	95.3	7.11	5.60	39.82	6.11%
15	102.4	7.11	4.80	34.13	5.24%
16	109.5	7.11	3.80	27.02	4.15%
17	116.7	7.11	3.00	21.33	3.27%
18	123.8	10.68	2.00	21.35	3.28%
19	138.0	12.12	2.20	26.66	4.09%
20	148.0	5.00	0.00	0.00	0.00%
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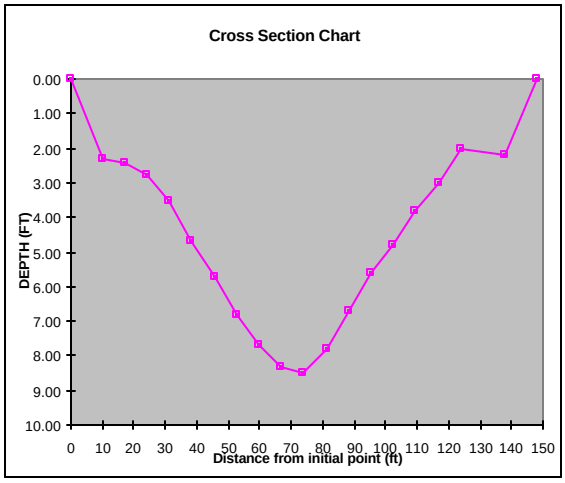
	Total	148.00		651.42	100.00%



Data Collection Crew	Griff, Farlow, Butler	Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Butler	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: BBf1Run2End **Subsegment:** 020102 **Waterbody:** Bayou Beouf

Site Description: Bayou Boeuf 1 Run 2 End

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	235.00
AREA[2] (ft^2):	1429.53
AVG. DEPTH[3](ft):	6.08

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	8.55	1.50	12.83	0.90%
3	17.1	11.10	1.60	17.76	1.24%
4	28.2	11.10	2.00	22.20	1.55%
5	39.3	11.10	2.80	31.08	2.17%
6	50.4	11.10	6.50	72.15	5.05%
7	61.5	11.10	8.10	89.91	6.29%
8	72.6	11.10	8.50	94.35	6.60%
9	83.7	11.10	8.80	97.68	6.83%
10	94.8	11.10	9.10	101.01	7.07%
11	105.9	11.10	9.50	105.45	7.38%
12	117.0	11.10	9.80	108.78	7.61%
13	128.1	11.10	10.70	118.77	8.31%
14	139.2	11.10	10.80	119.88	8.39%
15	150.3	11.10	10.20	113.22	7.92%
16	161.4	11.10	9.20	102.12	7.14%
17	172.5	11.10	7.30	81.03	5.67%
18	183.6	11.10	4.80	53.28	3.73%
19	194.7	11.10	2.90	32.19	2.25%
20	205.8	11.10	2.00	22.20	1.55%
21	216.9	11.10	1.70	18.87	1.32%
22	228.0	7.55	1.40	10.57	0.74%
23	232.0	3.50	1.20	4.20	0.29%
24	235.0	1.50	0.00	0.00	0.00%
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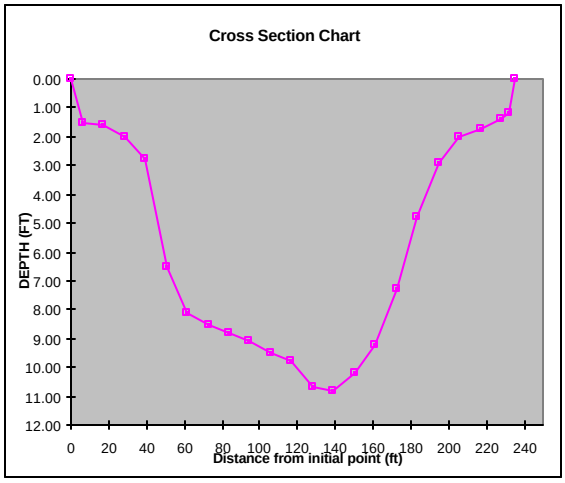
	Total	235.00		1429.53	100.00%



Data Collection Crew	Butler, Farlow, Griff	Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Butler	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: BBf1Run2Mid **Subsegment:** 020102 **Waterbody:** Bayou Boeuf

Site Description: Bayou Boeuf 1 Run 2 Middle

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	136.00
AREA[2] (ft^2):	755.41
AVG. DEPTH[3](ft):	5.55

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	5.63	1.50	8.44	1.12%
3	11.3	6.25	1.90	11.88	1.57%
4	17.5	6.25	2.40	15.00	1.99%
5	23.8	6.25	4.50	28.13	3.72%
6	30.0	6.25	6.10	38.13	5.05%
7	36.3	6.25	7.10	44.38	5.87%
8	42.5	6.25	7.70	48.13	6.37%
9	48.8	6.25	8.20	51.25	6.78%
10	55.0	6.25	9.10	56.88	7.53%
11	61.3	6.25	10.40	65.00	8.60%
12	67.5	6.25	9.80	61.25	8.11%
13	73.8	6.25	9.80	61.25	8.11%
14	80.0	6.25	9.70	60.63	8.03%
15	86.3	6.25	8.50	53.13	7.03%
16	92.5	6.25	6.30	39.38	5.21%
17	98.8	6.25	5.80	36.25	4.80%
18	105.0	6.25	3.70	23.13	3.06%
19	111.3	6.25	2.40	15.00	1.99%
20	117.5	9.38	2.40	22.50	2.98%
21	130.0	9.25	1.70	15.73	2.08%
22	136.0	3.00	0.00	0.00	0.00%
23					
24					
25					
26					
27					
28					
29					
30					
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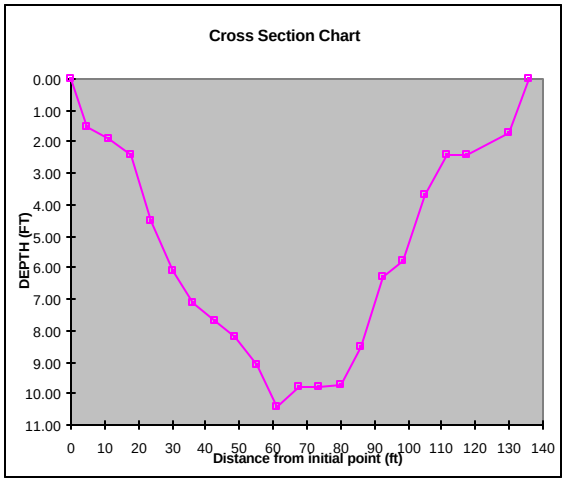
35					
36					
37					
38					
39					
40					
	Total	136.00		755.41	100.00%



Data Collection Crew	Farlow, Griff, Butler	Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Butler	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: BBf1Run3Top **Subsegment:** 020102 **Waterbody:** Bayou Beouf

Site Description: Bayou Beouf 1 Run 3 Top

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	218.00
AREA[2] (ft^2):	1316.82
AVG. DEPTH[3](ft):	6.04

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	8.86	1.70	15.05	1.14%
3	17.7	9.71	2.00	19.42	1.47%
4	27.4	9.71	2.90	28.16	2.14%
5	37.1	9.71	5.00	48.55	3.69%
6	46.8	9.71	6.50	63.12	4.79%
7	56.6	9.71	8.00	77.68	5.90%
8	66.3	9.71	9.60	93.22	7.08%
9	76.0	9.71	11.00	106.81	8.11%
10	85.7	9.71	11.40	110.69	8.41%
11	95.4	9.71	11.40	110.69	8.41%
12	105.1	9.71	11.10	107.78	8.18%
13	114.8	9.71	10.60	102.93	7.82%
14	124.5	9.71	10.20	99.04	7.52%
15	134.2	9.71	8.60	83.51	6.34%
16	143.9	9.71	7.10	68.94	5.24%
17	153.7	9.71	5.50	53.41	4.06%
18	163.4	9.71	4.40	42.72	3.24%
19	173.1	9.71	2.80	27.19	2.06%
20	182.8	9.71	2.00	19.42	1.47%
21	192.5	14.61	1.50	21.92	1.66%
22	212.0	12.76	1.30	16.58	1.26%
23	218.0	3.00	0.00	0.00	0.00%
24					
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27					
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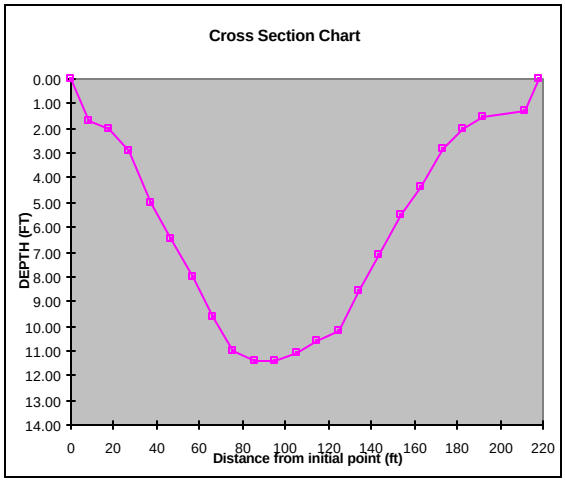
40					
	Total	218.00		1316.82	100.00%



Data Collection Crew	Butler, Farlow, Griff	Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Butler	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: BBf1Run3Bottom **Subsegment:** 020102 **Waterbody:** Bayou Beouf

Site Description: Bayou Beouf Run 3 Bottom

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	165.00
AREA[2] (ft^2):	1121.75
AVG. DEPTH[3](ft):	6.80

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	6.35	1.60	10.16	0.91%
3	12.7	7.70	1.70	13.09	1.17%
4	20.4	7.70	3.00	23.10	2.06%
5	28.1	7.70	7.40	56.98	5.08%
6	35.8	7.70	10.80	83.16	7.41%
7	43.5	7.70	13.00	100.10	8.92%
8	51.2	7.70	12.60	97.02	8.65%
9	58.9	7.70	12.50	96.25	8.58%
10	66.6	7.70	12.70	97.79	8.72%
11	74.3	7.70	12.20	93.94	8.37%
12	82.0	7.70	11.30	87.01	7.76%
13	89.7	7.70	10.10	77.77	6.93%
14	97.4	7.70	9.30	71.61	6.38%
15	105.1	7.70	7.80	60.06	5.35%
16	112.8	7.70	5.60	43.12	3.84%
17	120.5	7.70	3.80	29.26	2.61%
18	128.2	7.70	2.90	22.33	1.99%
19	135.9	7.70	2.30	17.71	1.58%
20	143.6	11.55	2.00	23.10	2.06%
21	159.0	10.70	1.70	18.19	1.62%
22	165.0	3.00	0.00	0.00	0.00%
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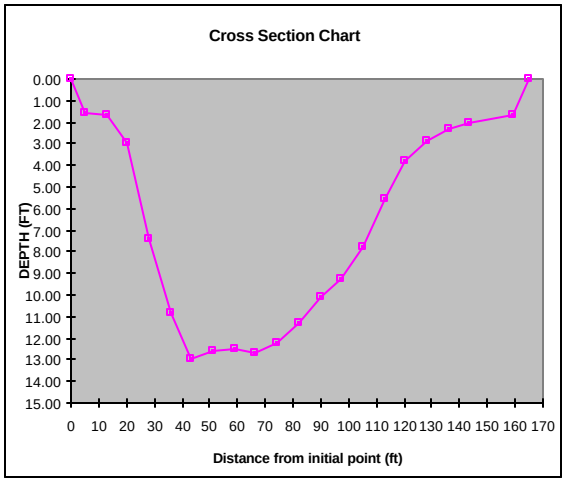
40					
	Total	165.00		1121.75	100.00%



Data Collection Crew	Butler, Farlow, Griff	Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Butler	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: GB3DyeDump **Subsegment:** 020101 **Waterbody:** Grand Bayou

Site Description: Grand Bayou Dye Dump

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	96.00
AREA[2] (ft^2):	353.10
AVG. DEPTH[3](ft):	3.68

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	2.00	0.00	0.00	
2	4.0	5.18	1.50	7.77	2.20%
3	10.4	6.36	2.00	12.72	3.60%
4	16.7	6.36	3.00	19.08	5.40%
5	23.1	6.36	4.40	27.98	7.93%
6	29.4	6.36	5.50	34.98	9.91%
7	35.8	6.36	5.80	36.89	10.45%
8	42.2	6.36	6.10	38.80	10.99%
9	48.5	6.36	6.20	39.43	11.17%
10	54.9	6.36	5.90	37.52	10.63%
11	61.2	6.36	5.40	34.34	9.73%
12	67.6	6.36	3.90	24.80	7.02%
13	74.0	6.36	2.10	13.36	3.78%
14	80.3	9.52	1.60	15.23	4.31%
15	93.0	7.84	1.30	10.19	2.89%
16	96.0	1.50	0.00	0.00	0.00%
17					
18					
19					
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21					
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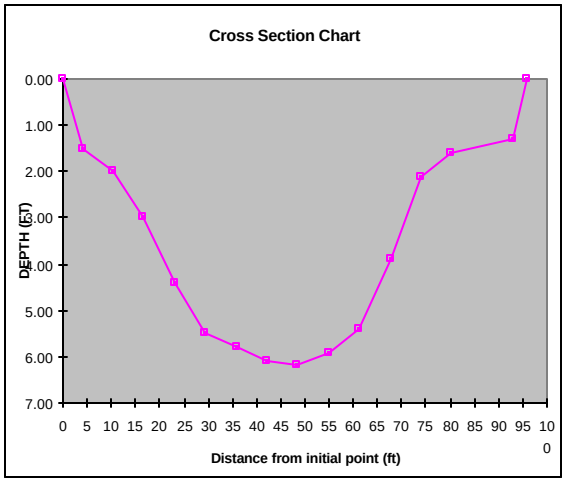
40					
	Total	96.00		353.10	100.00%



Data Collection Crew	Butler, Griff, Farlow	Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Butler	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: GB3Run1Top **Subsegment:** 020101 **Waterbody:** Grand Bayou

Site Description: Grand Bayou 3 Run 1 Top

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	69.00
AREA[2] (ft^2):	276.85
AVG. DEPTH[3](ft):	4.01

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	2.00	0.00	0.00	
2	4.0	4.63	1.80	8.33	3.01%
3	9.3	5.25	2.80	14.70	5.31%
4	14.5	5.25	3.90	20.48	7.40%
5	19.8	5.25	4.80	25.20	9.10%
6	25.0	5.25	4.90	25.73	9.29%
7	30.3	5.25	6.80	35.70	12.90%
8	35.5	5.25	7.00	36.75	13.27%
9	40.8	5.25	7.00	36.75	13.27%
10	46.0	5.25	6.00	31.50	11.38%
11	51.3	5.25	3.70	19.43	7.02%
12	56.5	7.88	1.80	14.18	5.12%
13	67.0	6.25	1.30	8.13	2.93%
14	69.0	1.00	0.00	0.00	0.00%
15					
16					
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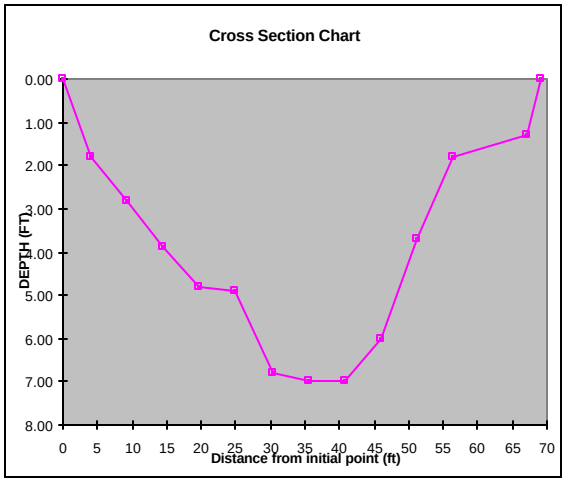
37					
38					
39					
40					
	Total	69.00		276.85	100.00%



Data Collection Crew	Griff, Butler, Farlow	Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Butler	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: GB3Run1Mid **Subsegment:** 020101 **Waterbody:** Grand Bayou

Site Description: GB3Run1Mid

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	79.00
AREA[2] (ft^2):	326.24
AVG. DEPTH[3] (ft):	4.13

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	7.65	3.20	24.48	7.50%
3	15.3	5.30	4.10	21.73	6.66%
4	20.6	5.30	5.60	29.68	9.10%
5	25.9	5.30	6.20	32.86	10.07%
6	31.2	5.30	6.50	34.45	10.56%
7	36.5	5.30	6.60	34.98	10.72%
8	41.8	5.30	6.20	32.86	10.07%
9	47.1	5.30	5.70	30.21	9.26%
10	52.4	5.30	4.90	25.97	7.96%
11	57.7	5.30	4.10	21.73	6.66%
12	63.0	5.30	3.30	17.49	5.36%
13	68.3	5.35	2.20	11.77	3.61%
14	73.7	5.35	1.50	8.03	2.46%
15	79.0	2.65	0.00	0.00	0.00%
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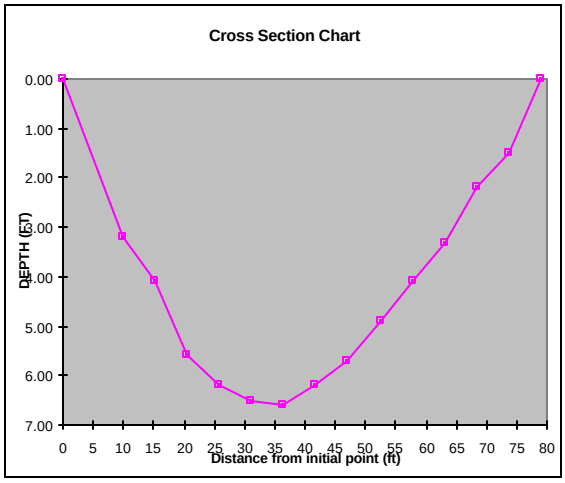
40					
	Total	79.00		326.24	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Butler, Griff, Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Farlow	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: GB3Run1End **Subsegment:** 020101 **Waterbody:** Grand Bayou

Site Description: GB3Run1End

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	72.00
AREA[2] (ft^2):	302.64
AVG. DEPTH[3](ft):	4.20

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	4.40	1.90	8.36	2.76%
3	8.8	4.80	2.30	11.04	3.65%
4	13.6	4.80	5.00	24.00	7.93%
5	18.4	4.80	6.50	31.20	10.31%
6	23.2	4.80	6.90	33.12	10.94%
7	28.0	4.80	7.00	33.60	11.10%
8	32.8	4.80	6.90	33.12	10.94%
9	37.6	4.80	6.20	29.76	9.83%
10	42.4	4.80	5.70	27.36	9.04%
11	47.2	4.80	5.60	26.88	8.88%
12	52.0	4.80	4.30	20.64	6.82%
13	56.8	7.60	1.90	14.44	4.77%
14	67.2	7.60	1.20	9.12	3.01%
15	72.0	2.40	0.00	0.00	0.00%
16					
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26					
27					
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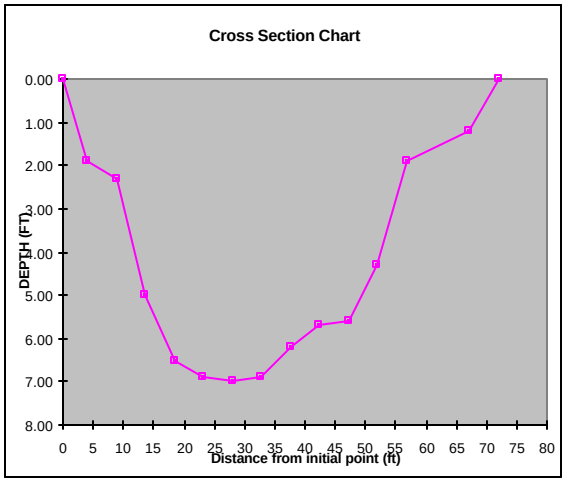
40					
	Total	72.00		302.64	100.00%



Data Collection Crew	Butler, Griff, Farlow	Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Butler	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: GB3Run2Top **Subsegment:** 020101 **Waterbody:** Grand Bayou

Site Description: Grand Bayou 3 Run 2 Top

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	58.00
AREA[2] (ft^2):	228.69
AVG. DEPTH[3] (ft):	3.94

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	4.04	1.80	7.26	3.18%
3	8.1	3.07	2.50	7.68	3.36%
4	11.1	3.07	5.30	16.27	7.11%
5	14.2	3.07	7.10	21.80	9.53%
6	17.3	3.07	7.30	22.41	9.80%
7	20.4	3.07	7.20	22.10	9.67%
8	23.4	3.07	6.90	21.18	9.26%
9	26.5	3.07	6.40	19.65	8.59%
10	29.6	3.07	5.50	16.89	7.38%
11	32.6	3.07	4.60	14.12	6.18%
12	35.7	3.07	3.90	11.97	5.24%
13	38.8	3.07	3.30	10.13	4.43%
14	41.8	5.62	2.60	14.60	6.38%
15	50.0	8.08	2.80	22.62	9.89%
16	58.0	4.00	0.00	0.00	0.00%
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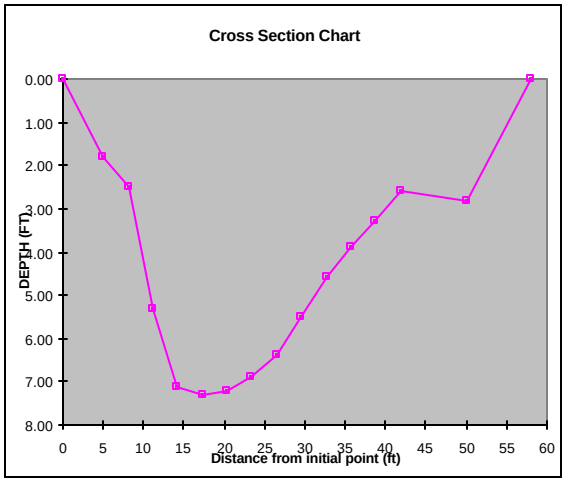
40					
	Total	58.00		228.69	100.00%



Data Collection Crew	Griff, Farlow, Butler	Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Butler	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: GB3Run2Bottom **Subsegment:** 020101 **Waterbody:** Grand Bayou

Site Description: GB3Run2Bottom

Type of Equipment: ● Fathomete ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

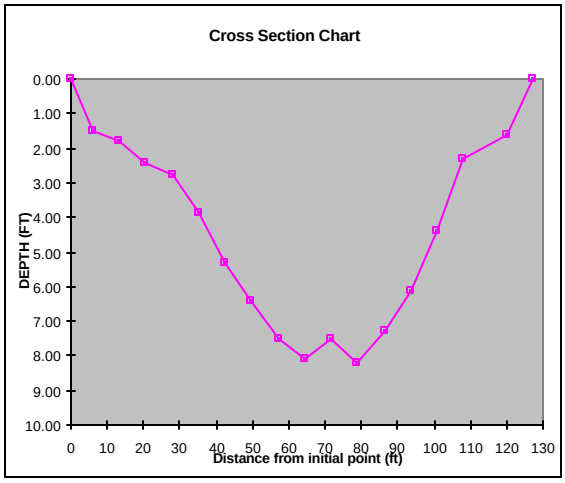
Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	127.00
AREA[2] (ft^2):	570.39
AVG. DEPTH[3](ft):	4.49

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	6.65	1.50	9.98	1.75%
3	13.3	7.30	1.80	13.14	2.30%
4	20.6	7.30	2.40	17.52	3.07%
5	27.9	7.30	2.80	20.44	3.58%
6	35.2	7.30	3.90	28.47	4.99%
7	42.5	7.30	5.30	38.69	6.78%
8	49.8	7.30	6.40	46.72	8.19%
9	57.1	7.30	7.50	54.75	9.60%
10	64.4	7.30	8.10	59.13	10.37%
11	71.7	7.30	7.50	54.75	9.60%
12	79.0	7.30	8.20	59.86	10.49%
13	86.3	7.30	7.30	53.29	9.34%
14	93.6	7.30	6.10	44.53	7.81%
15	100.9	7.30	4.40	32.12	5.63%
16	108.2	9.55	2.30	21.97	3.85%
17	120.0	9.40	1.60	15.04	2.64%
18	127.0	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	127.00		570.39	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Butler, Griff, Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Farlow	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: GB3Run3Top **Subsegment:** 020101 **Waterbody:** Grand Bayou

Site Description: GB3Run3Top

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

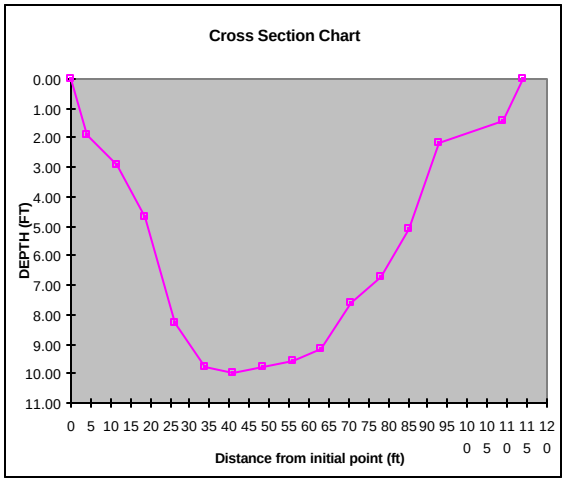
Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	114.00
AREA[2] (ft^2):	671.01
AVG. DEPTH[3](ft):	5.89

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	5.70	1.90	10.83	1.61%
3	11.4	7.40	2.90	21.46	3.20%
4	18.8	7.40	4.70	34.78	5.18%
5	26.2	7.40	8.30	61.42	9.15%
6	33.6	7.40	9.80	72.52	10.81%
7	41.0	7.40	10.00	74.00	11.03%
8	48.4	7.40	9.80	72.52	10.81%
9	55.8	7.40	9.60	71.04	10.59%
10	63.2	7.40	9.20	68.08	10.15%
11	70.6	7.40	7.60	56.24	8.38%
12	78.0	7.40	6.70	49.58	7.39%
13	85.4	7.40	5.10	37.74	5.62%
14	92.8	11.80	2.20	25.96	3.87%
15	109.0	10.60	1.40	14.84	2.21%
16	114.0	2.50	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	114.00		671.01	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Butler, Griff, Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Farlow	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: GB3Run3Mid **Subsegment:** 020101 **Waterbody:** Grand Bayou

Site Description: GB3 Run 3 Mid

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	102.00
AREA[2] (ft^2):	503.41
AVG. DEPTH[3](ft):	4.94

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	7.55	1.50	11.33	2.25%
3	15.1	5.10	1.50	7.65	1.52%
4	20.2	5.10	1.50	7.65	1.52%
5	25.3	5.10	4.20	21.42	4.26%
6	30.4	5.10	5.30	27.03	5.37%
7	35.5	5.10	6.70	34.17	6.79%
8	40.6	5.10	7.60	38.76	7.70%
9	45.7	5.10	8.60	43.86	8.71%
10	50.8	5.10	9.50	48.45	9.62%
11	55.9	5.10	9.80	49.98	9.93%
12	61.0	5.10	10.11	51.56	10.24%
13	66.1	5.10	10.00	51.00	10.13%
14	71.2	5.10	8.80	44.88	8.92%
15	76.3	5.10	5.60	28.56	5.67%
16	81.4	5.10	2.70	13.77	2.74%
17	86.5	7.80	1.80	14.04	2.79%
18	97.0	7.75	1.20	9.30	1.85%
19	102.0	2.50	0.00	0.00	0.00%
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
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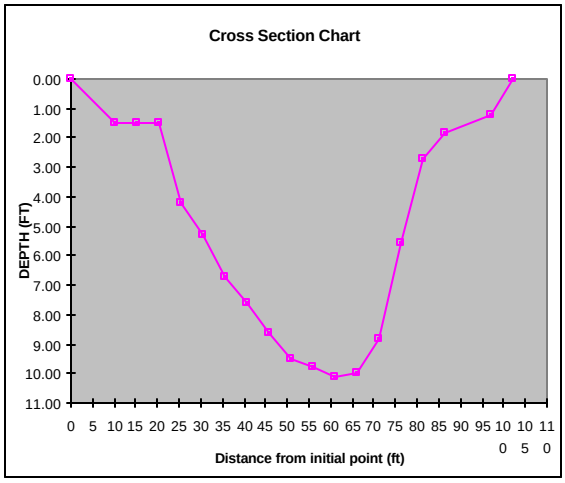
36					
37					
38					
39					
40					
	Total	102.00		503.41	100.00%



Data Collection Crew		Office Data Work	
Measurement made by:	Butler, Griff, Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Butler	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: GB3Run3End **Subsegment:** 020101 **Waterbody:** Grand Bayou

Site Description: GrandBayou Run 3 End

Type of Equipment: ● Fathometer ● Hydrotrac ● Manual

Initial Bank: ● RDB ● LDB

Tapedown:

Guage Height:

Date: 6/23/03

WIDTH[1] (ft):	130.00
AREA[2] (ft^2):	664.20
AVG. DEPTH[3](ft):	5.11

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	6.10	2.10	12.81	1.93%
3	12.2	7.20	2.80	20.16	3.04%
4	19.4	7.20	2.80	20.16	3.04%
5	26.6	7.20	4.70	33.84	5.09%
6	33.8	7.20	6.00	43.20	6.50%
7	41.0	7.20	6.50	46.80	7.05%
8	48.2	7.20	7.10	51.12	7.70%
9	55.4	7.20	7.80	56.16	8.46%
10	62.6	7.20	8.60	61.92	9.32%
11	69.8	7.20	9.00	64.80	9.76%
12	77.0	7.20	9.00	64.80	9.76%
13	84.2	7.20	8.50	61.20	9.21%
14	91.4	7.20	6.50	46.80	7.05%
15	98.6	7.20	4.40	31.68	4.77%
16	105.8	7.20	2.60	18.72	2.82%
17	113.0	7.20	2.00	14.40	2.17%
18	120.2	6.50	1.50	9.75	1.47%
19	126.0	4.90	1.20	5.88	0.89%
20	130.0	2.00	0.00	0.00	0.00%
21					
22					
23					
24					
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34					
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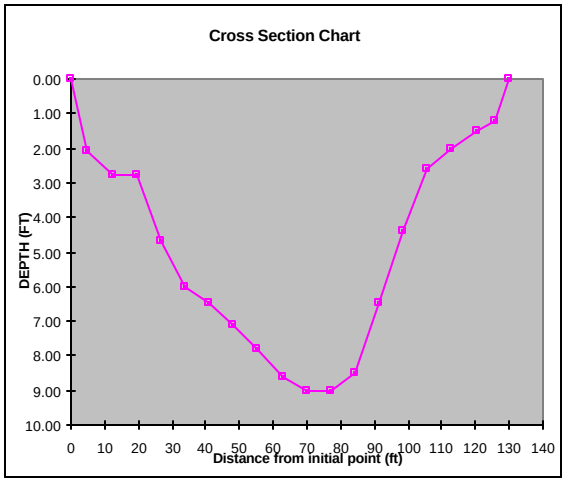
36					
37					
38					
39					
40					
	Total	130.00		664.20	100.00%



Data Collection Crew	Butler, Griff, Farlow	Office Data Work	
Measurement made by:	Farlow	Data Inputed by / Date:	6/26/03
Notetaker/Recorder:	Butler	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 Measurements

Table C6.1 Acoustic Doppler and Manual Flow Measurements for Subsegments 020102 and 020103.

Station	Date	Run#	Flow (cfs)	Method
BBF-3	6/18/03	1	314.14	Acoustic Doppler
		2	324.98	Acoustic Doppler
		3	329.88	Acoustic Doppler
		4	350.13	Acoustic Doppler
		AVG	329.78	
GB-1	6/18/03		81.34	Manual
GB-2	6/17/03	1	106.69	Acoustic Doppler
		2	115.45	Acoustic Doppler
		3	112.94	Acoustic Doppler
		4	114.19	Acoustic Doppler
		AVG	112.32	
GB-2	6/18/03	1	129.36	Acoustic Doppler
		2	131.50	Acoustic Doppler
		3	123.54	Acoustic Doppler
		4	126.71	Acoustic Doppler
		AVG	127.78	
GB-4	6/17/03	1	106.56	Acoustic Doppler
		2	109.24	Acoustic Doppler
		3	104.90	Acoustic Doppler
		4	113.50	Acoustic Doppler
		AVG	108.55	
GB-4	6/18/03	1	143.97	Acoustic Doppler
		2	135.94	Acoustic Doppler
		3	139.45	Acoustic Doppler
		4	138.12	Acoustic Doppler
		AVG	139.37	
GB-6	6/17/03	1	173.54	Acoustic Doppler
		2	182.99	Acoustic Doppler
		3	192.22	Acoustic Doppler
		4	197.60	Acoustic Doppler
		AVG	186.59	
GB-6	6/18/03	1	144.28	Acoustic Doppler
		2	151.24	Acoustic Doppler
		3	151.61	Acoustic Doppler
		4	157.74	Acoustic Doppler
		AVG	151.22	

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Table C6.2 Drogue Measurements for Subsegment 020102 and 020103

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
GB-1	06/17/03	10:20	mid	230	7.10	00.54	0.47	155.8	72.53	downstream,south
GB-2	06/17/03	12:50	mid	105	6.78	00.26	0.22	155.8	34.66	downstream,east/southeast
GB-2	06/18/03	10:20	right	125	9.28	00.22	0.19			downstream/southeast
GB-2	06/18/03	10:20	mid	125	7.80	00.27	0.23			downstream/southeast
GB-2	06/18/03	10:20	left	125	4.20	00.50	0.43			downstream/southeast
						6/18/03 AVG =	0.28	155.8	44.22	
GB-4	06/18/03	9:30	right	80	4.23	00.31	0.27			upstream
GB-4	06/18/03	9:30	mid	70	3.40	00.34	0.30			upstream
GB-4	06/18/03	9:30	left	70	3.70	00.32	0.27			upstream
						6/18/03 AVG =	0.28	346.4	96.89	
GB-6	06/18/03	12:00	right	70	3.27	00.36	0.31			downstream
GB-6	06/18/03	12:00	mid	70	3.12	00.37	0.32			downstream
GB-6	06/18/03	12:00	left	70	4.62	00.25	0.22			downstream
						6/18/03 AVG =	0.28	754.3	213.32	
HC-1	06/17/03	11:40	mid	62	11.00	00.09	0.08	188.9	15.30	
HC-1	06/18/03	10:40	mid	0	5.00	00.00	0.00	188.9	0.00	
HC-2	06/17/03	11:00	mid	31	7.50	00.07	0.06	352.9	20.96	flowing east
HC-2	06/18/03	11:15	mid	103	3.25	00.53	0.46	352.9	160.70	upstream,northeast
TC-1	06/17/03	9:40	mid	7	3.00	00.04	0.03	118.5	3.97	wind influenced
TC-1	06/18/03	8:40	mid	0	5.00	00.00	0.00	118.5	0.00	
TC-2	06/18/03	11:00	mid	0	10.00	00.00	0.00	132.1	0.00	
TC-3	06/17/03	12:00	mid	10	5.00	00.03	0.03	102.5	2.94	influenced by wind from SE
TC-3	06/18/03		mid	0	3.00	00.00	0.00	102.5	0.00	
BBf-1	06/17/03	10:35	mid	90	5.83	00.26	0.22	717.8	159.11	upstream,wind influenced
BBf-1	06/18/03	10:00	right	0	20.00	00.00	0.00			
BBf-1	06/18/03	10:00	mid	120	20.00	00.10	0.09			
BBf-1	06/18/03	10:00	left	0	20.00	00.00	0.00			
						6/18/03 AVG =	0.03	717.8	20.63	
BBf-3	06/17/03		mid	142	10.50	00.23	0.19	1361.4	264.54	upsteam,north
BO-1	06/17/03	11:00	mid	40	3.83	00.17	0.15	306.6	45.97	downstream,east towards Grand Bayou
BO-1	06/18/03	8:50	right	40	8.40	00.08	0.07			downstream
BO-1	06/18/03	8:50	mid	40	4.55	00.15	0.13			downstream
BO-1	06/18/03	8:50	left	40	7.92	00.08	0.07			downstream
						6/18/03 AVG =	0.09	306.6	27.32	
LPC-1	06/17/03	11:05				#DIV/0!	#DIV/0!	194.3	#DIV/0!	DROGUE DID NOT MOVE
LPC-1	06/18/03	8:40	mid			#DIV/0!	#DIV/0!	194.3	#DIV/0!	DROGUE DID NOT MOVE
BoC-1	06/17/03	10:45	mid	63	4.73	00.22	0.19	467.3	89.37	downstream,wind influenced
BoC-1	06/18/03	9:20	mid	0	5.00	00.00	0.00	468.3	0.00	

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Table C6.3. Results of Dye Study for Bayou Boeuf (Subsegment 020102)

Sample ID	Date / Time	Measured dye conc. (ppb)	Easting	Northing	Distance downstream of injection location (m)	"Width" of area under curve (m)	Area under curve (m * ppb)	Horizontal centroid of area under curve (m)	Horizontal moment about X=0 (m2 * ppb)
Injection	06/18/03 07:30		730054	3301611	0				
	RUN 1								
01 run1	6/18/03 1:03 PM	2.3	729905	3301874	302	58	134	331	44514
02 run1	6/18/03 1:07 PM	7.15	729954	3301980	419	111	797	416	331640
03 run1	6/18/03 1:09 PM	5.39	729999	3302076	525	80	432	512	221030
04 run1	6/18/03 1:11 PM	57.6	730010	3302129	579	63	3652	584	2132092
05 run1	6/18/03 1:13 PM	192	729969	3302189	652	86	16481	658	10851973
06 run1	6/18/03 1:14 PM	115	729900	3302260	751	103	11835	753	8910075
07 run1	6/18/03 1:17 PM	93.4	729816	3302326	858	114	10603	861	9129885
08 run1	6/18/03 1:19 PM	46.5	729793	3302444	978	109	5048	972	4906761
09 run1	6/18/03 1:21 PM	22.4	729812	3302539	1075	80	1803	1067	1922728
10 run1	6/18/03 1:23 PM	12.8	729815	3302603	1139	56	714	1135	809769
11 run1	6/18/03 1:26 PM	0.301	729800	3302648	1186	24	7	1174	8384
Median =	06/18/03 13:14	Location of center of mass =			762	sum =	51505	sum =	39268851
Elapsed time (hrs) = 5.75									
Avg velocity (since injection) =		0.04 m/sec	=		0.12 ft/sec				
	RUN 2								
01 run2	6/18/03 6:46 PM	0.337	729807	3302498	921	102	34	972	33415
02 run2	6/18/03 6:54 PM	0.721	729778	3302700	1125	183	132	1114	147161
03 run2	6/18/03 6:56 PM	1.25	729688	3302835	1287	133	167	1273	212287
04 run2	6/18/03 6:58 PM	2.26	729606	3302900	1392	180	406	1429	580664
05 run2	6/18/03 7:01 PM	3.76	729393	3303040	1647	275	1034	1657	1712476
06 run2	6/18/03 7:05 PM	9.08	729272	3303309	1942	273	2477	1930	4781186
07 run2	6/18/03 7:07 PM	13.3	729215	3303553	2192	255	3392	2194	7442880
08 run2	6/18/03 7:11 PM	21.7	729142	3303802	2452	257	5571	2450	13650968
09 run2	6/18/03 7:15 PM	29	729143	3304056	2706	220	6389	2689	17178779
010 run2	6/18/03 7:17 PM	25.3	729213	3304229	2892	191	4842	2895	14016542
11 run2	6/18/03 7:20 PM	16	729281	3304413	3088	155	2485	3068	7622978
12 run2	6/18/03 7:25 PM	8.67	729394	3304431	3203	135	1168	3213	3753016
13 run2	6/18/03 7:28 PM	5.05	729549	3304428	3358	173	874	3367	2941896
14 run2	6/18/03 7:31 PM	3.96	729740	3304425	3549	200	791	3553	2811732
15 run2	6/18/03 7:34 PM	2.13	729946	3304392	3758	218	464	3762	1747073
16 run2	6/18/03 7:38 PM	0.608	730129	3304527	3985	202	123	3972	488131
17 run2	6/18/03 7:41 PM	0.019	730233	3304670	4162	88	2	4118	6917
Median =	06/18/03 19:15	Location of center of mass =			2607	sum =	30351	sum =	79128100
Elapsed time (hrs) = 11.75									
Avg velocity (since injection) =		0.06 m/sec	=		0.20 ft/sec				
	RUN 3								
01 run3	6/19/03 10:58 AM	0.211	729692	3304437	2849	84	18	2891	51510
02 run3	6/19/03 11:03 AM	0.217	729852	3304383	3018	154	33	3011	100709
03 run3	6/19/03 11:05 AM	0.415	729990	3304403	3157	173	72	3174	227434
04 run3	6/19/03 11:09 AM	0.649	730148	3304535	3363	201	131	3361	438760
05 run3	6/19/03 11:11 AM	0.861	730253	3304701	3560	191	165	3557	585312
06 run3	6/19/03 11:14 AM	1.3	730344	3304863	3746	228	297	3767	1118687
07 run3	6/19/03 11:17 AM	2.05	730544	3305046	4017	239	491	4001	1962658
08 run3	6/19/03 11:21 AM	2.47	730649	3305225	4224	218	539	4229	2279492
09 run3	6/19/03 11:24 AM	4.5	730800	3305397	4453	200	902	4439	4003700

10 run3	6/19/03 11:27 AM	5.49	730916	3305524	4625	187	1026	4632	4750762
11 run3	6/19/03 11:29 AM	6.9	731078	3305644	4827	212	1462	4832	7065969
12 run3	6/19/03 11:32 AM	8.67	731270	3305756	5049	196	1699	5036	8558057
13 run3	6/19/03 11:35 AM	9.11	731366	3305896	5219	157	1428	5212	7441364
14 run3	6/19/03 11:37 AM	8.67	731463	3306002	5362	153	1325	5367	7112256
15 run3	6/19/03 11:40 AM	7.19	731620	3305962	5524	206	1479	5546	8201542
16 run3	6/19/03 11:44 AM	5.08	731862	3306022	5774	184	934	5741	5361276
17 run3	6/19/03 11:46 AM	3.47	731922	3306124	5892	140	485	5903	2862673
18 run3	6/19/03 11:48 AM	2.32	731981	3306274	6053	146	338	6045	2042344
19 run3	6/19/03 11:52 AM	1.3	732009	3306401	6183	132	171	6184	1059197
20 run3	6/19/03 11:54 AM	0.54	732050	3306528	6317	108	58	6304	366773
21 run3	6/19/03 11:56 AM	0.053	732107	3306587	6399	41	2	6378	13866
Median =	06/19/03 11:29	Location of center of mass =			5026	sum =	13054	sum =	65604341
Elapsed time (hrs) = 28.00									
Avg velocity (since injection) =		0.05 m/sec	=	0.16 ft/sec					

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Table C6.4. Results of Dye Study for Grand Bayou (Subsegment 020102)

Sample ID	Date / Time	Measured dye conc. (ppb)	Easting	Northing	Distance downstream of injection location (m)	"Width" of area under curve (m)	Area under curve (m * ppb)	Horizontal centroid of area under curve (m)	Horizontal moment about X=0 (m2 * ppb)
Injection	06/18/03 06:30		717367	3307821	0				
	RUN 1								
01 run1	6/18/03 11:35 AM	1.04	718149	3307915	788	33	35	804	27804
02 run1	6/18/03 11:37 AM	2.39	718213	3307897	854	98	234	870	203254
03 run1	6/18/03 11:41 AM	4.86	718339	3307869	983	110	533	973	518835
04 run1	6/18/03 11:43 AM	6.45	718428	3307854	1073	72	466	1064	496385
05 run1	6/18/03 11:45 AM	8.5	718481	3307842	1128	50	422	1125	474731
06 run1	6/18/03 11:46 AM	13.5	718525	3307833	1173	69	936	1185	1108978
07 run1	6/18/03 11:48 AM	16.3	718617	3307815	1266	83	1359	1261	1714072
08 run1	6/18/03 11:50 AM	20.5	718688	3307798	1339	81	1656	1343	2224731
09 run1	6/18/03 11:52 AM	26.5	718776	3307788	1428	90	2385	1429	3407718
10 run1	6/18/03 11:53 AM	46	718865	3307767	1519	108	4953	1528	7565591
11 run1	6/18/03 11:56 AM	74.5	718975	3307710	1643	100	7439	1631	12135977
12 run1	6/18/03 11:58 AM	64.2	719032	3307660	1719	106	6800	1734	11793453
13 run1	6/18/03 12:01 PM	40.1	719122	3307558	1855	95	3806	1835	6983335
14 run1	6/18/03 12:02 PM	16.9	719158	3307518	1909	72	1216	1918	2333179
15 run1	6/18/03 12:04 PM	4.04	719208	3307443	1999	72	291	1990	578265
16 run1	6/18/03 12:06 PM	0.829	719234	3307396	2053	27	22	2039	45405
Median =	06/18/03 11:51		Location of center of mass =		1585	sum =	32554	sum =	51611714
Elapsed time (hrs) = 5.35									
Avg velocity (since injection) =		0.08 m/sec =			0.27 ft/sec				
	RUN 2								
08 run2	6/18/03 5:31 PM	10.02	719212	3306355	2357	71	706	2392	1689742
09 run2	6/18/03 5:36 PM	12.3	719214	3306214	2498	159	1951	2506	4890850
10 run2	6/18/03 5:42 PM	16.6	719224	3306038	2674	334	5547	2753	15270017
07 run2	6/18/03 5:25 PM	6.83	719231	3306530	3166	671	4583	3255	14920335
01 run2	6/18/03 5:08 PM	0.087	719241	3307380	4016	499	43	3840	166561
02 run2	6/18/03 5:12 PM	0.605	719244	3307233	4163	151	91	4165	380532
03 run2	6/18/03 5:15 PM	1.31	719245	3307078	4318	267	349	4374	1526999
06 run2	6/18/03 5:22 PM	6.15	719249	3306700	4696	319	1962	4666	9155342
04 run 2	6/18/03 5:17 PM	2.01	719251	3306960	4956	194	389	4923	1914662
05 run2	6/18/03 5:20 PM	2.98	719251	3306833	5083	541	1611	5290	8521361
11 run2	6/18/03 5:47 PM	18.4	719315	3305881	6037	574	10554	5847	61710397
12 run2	6/18/03 5:50 PM	24.5	719449	3305742	6230	180	4410	6224	27444365
13 run2	6/18/03 5:54 PM	19	719565	3305622	6397	146	2782	6387	17768001
14 run2	6/18/03 5:57 PM	12.8	719651	3305530	6523	121	1545	6520	10072010
15 run2	6/18/03 5:59 PM	4.21	719722	3305439	6638	129	541	6645	3595118
16 run2	6/18/03 6:01 PM	2.17	719817	3305334	6780	148	322	6783	2182195
17 run2	6/18/03 6:05 PM	0.74	719929	3305227	6935	77	57	6896	395236
Median =	06/18/03 17:36		Location of center of mass =		4850	sum =	37445	sum =	181603723
Elapsed time (hrs) = 11.10									
Avg velocity (since injection) =		0.12 m/sec =			0.40 ft/sec				

	RUN 3								
01 run3	6/19/03 1:00 PM	0.007	721678	3304757	5289	40	0	5309	1487
02 run3	6/19/03 1:02 PM	0.206	721758	3304757	5369	109	22	5383	120697
03 run3	6/19/03 1:05 PM	0.345	721893	3304784	5507	154	53	5515	293322
04 run3	6/19/03 1:07 PM	0.653	722063	3304799	5677	156	102	5670	577001
05 run3	6/19/03 1:09 PM	1.26	722203	3304782	5818	156	196	5826	1141568
06 run3	6/19/03 1:12 PM	2.24	722368	3304741	5988	171	384	5989	2297705
07 run3	6/19/03 1:14 PM	2.46	722510	3304643	6161	177	435	6163	2680986
08 run3	6/19/03 1:16 PM	4.09	722671	3304560	6342	173	707	6338	4477720
09 run3	6/19/03 1:19 PM	3.92	722832	3304527	6506	190	746	6519	4861169
10 run3	6/19/03 1:22 PM	5.18	723046	3304497	6722	223	1155	6726	7765922
11 run3	6/19/03 1:25 PM	5.6	723246	3304384	6952	266	1491	6970	10396199
12 run3	6/19/03 1:29 PM	6.53	723534	3304478	7255	314	2048	7260	14866115
13 run3	6/19/03 1:33 PM	5.81	723846	3304566	7579	211	1227	7523	9233177
14 run3	6/19/03 1:35 PM	4.07	723944	3304558	7678	177	722	7717	5569459
15 run3	6/19/03 1:39 PM	2.44	724190	3304486	7934	216	527	7914	4166779
16 run3	6/19/03 1:42 PM	1.78	724364	3304465	8109	202	360	8123	2922479
17 run3	6/19/03 1:45 PM	0.42	724593	3304464	8338	188	79	8318	656917
18 run3	6/19/03 1:47 PM	0.056	724696	3304569	8485	74	4	8448	34794
Median =	06/19/03 13:20		Location of center of mass =		7026	sum =	10257	sum =	72063496
Elapsed time (hrs) = 30.85									
Avg velocity (since injection) =		0.06 m/sec =			0.21 ft/sec				

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Table C6.5 Flow Calculations from Dye Studies

Bayou Boeuf Injection: 6/18/03 7:30 AM

Run	Location of center of mass (m)	Elapsed time (hrs)	run velocity (m/s)	area (ft2) XS 1	area (ft2) XS 2	area (ft2) XS 3	average area (ft2)	average area (m2)	run flow rate (cms)
1	762	5.75	0.037	799.54	651.42	635.96	695.64	64.62	2.38
2	2607	11.75	0.085	651.42	755.41	1429.53	945.45	87.83	7.50
3	5026	28.00	0.041	1316.82	1121.75		1219.29	113.26	4.68
		Avg =	**0.055**						**4.85**

Grand Bayou Injection: 6/18/03 6:30 AM

Run	Location of center of mass (m)	Elapsed time (hrs)	velocity (m/s)	area (ft2) XS 1	area (ft2) XS 2	area (ft2) XS 3	average area (ft2)	average area (m2)	flow rate (cms)
1	1585	5.35	0.082	276.85	326.24	302.64	301.91	28.05	2.31
2	4850	11.10	0.158	228.69	570.39		399.54	37.11	5.86
3	7026	30.85	0.031	671.01	503.41	664.2	587.21	54.55	1.67
		Avg =	**0.090**						**3.28**

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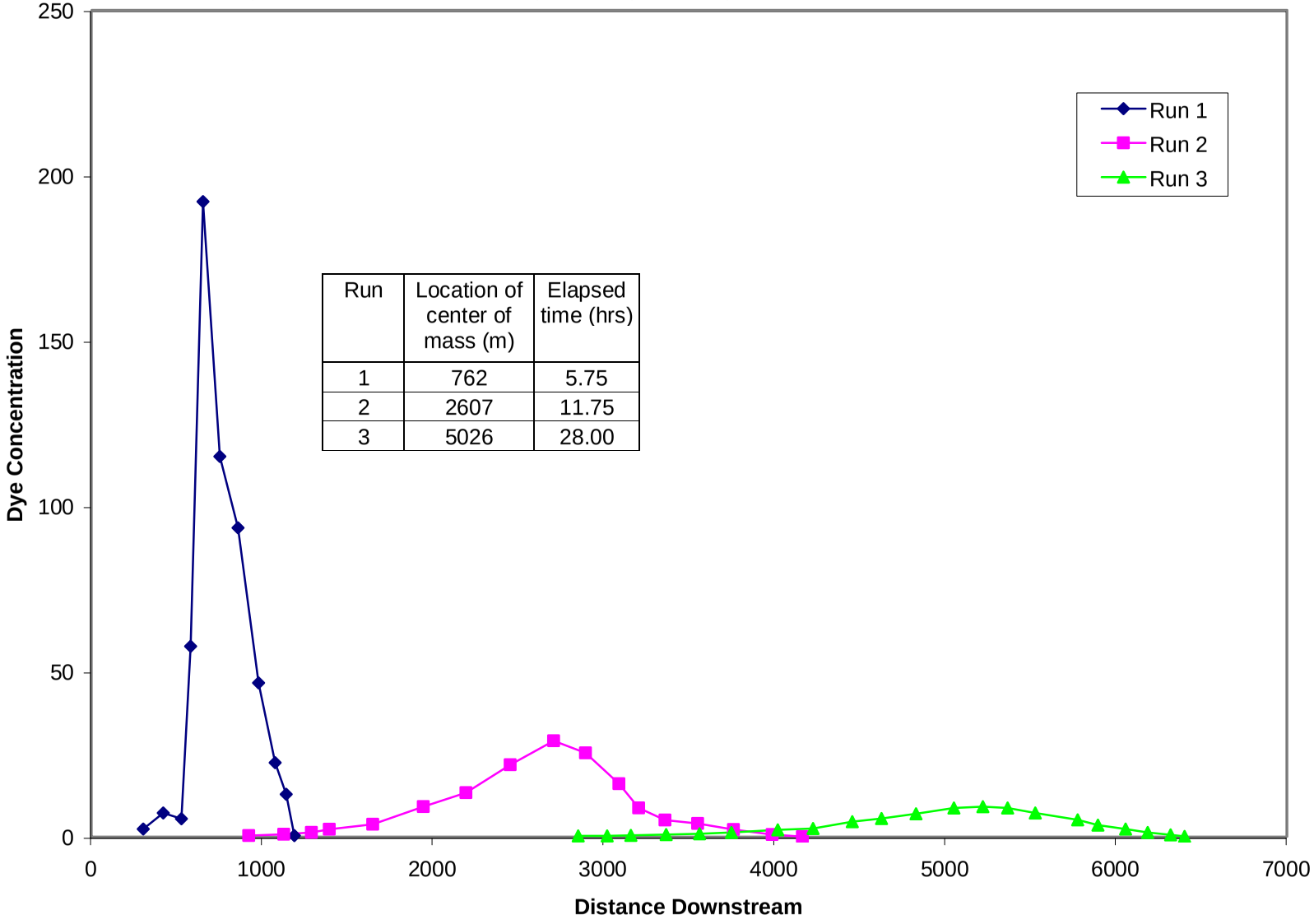
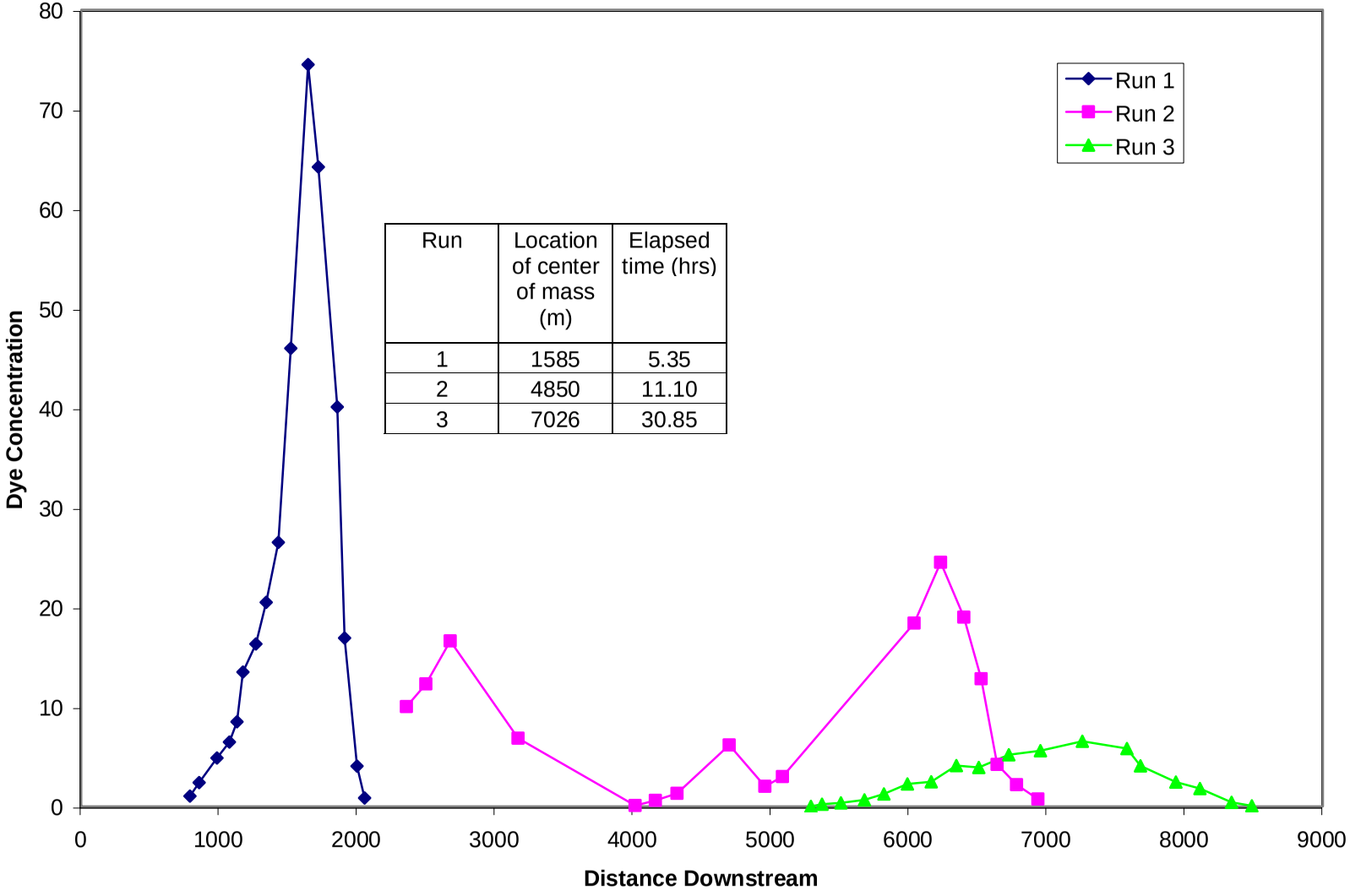
Figure C6.1. Results of Dye Study on Bayou Boeuf June 18 - 19, 2003.



Run	Location of center of mass (m)	Elapsed time (hrs)
1	762	5.75
2	2607	11.75
3	5026	28.00

Figure C6.2. Results of Grand Bayou Dye Study June 18 - 19, 2003.



Run	Location of center of mass (m)	Elapsed time (hrs)
1	1585	5.35
2	4850	11.10
3	7026	30.85

APPENDIX D

LA-QUAL Vector Diagram

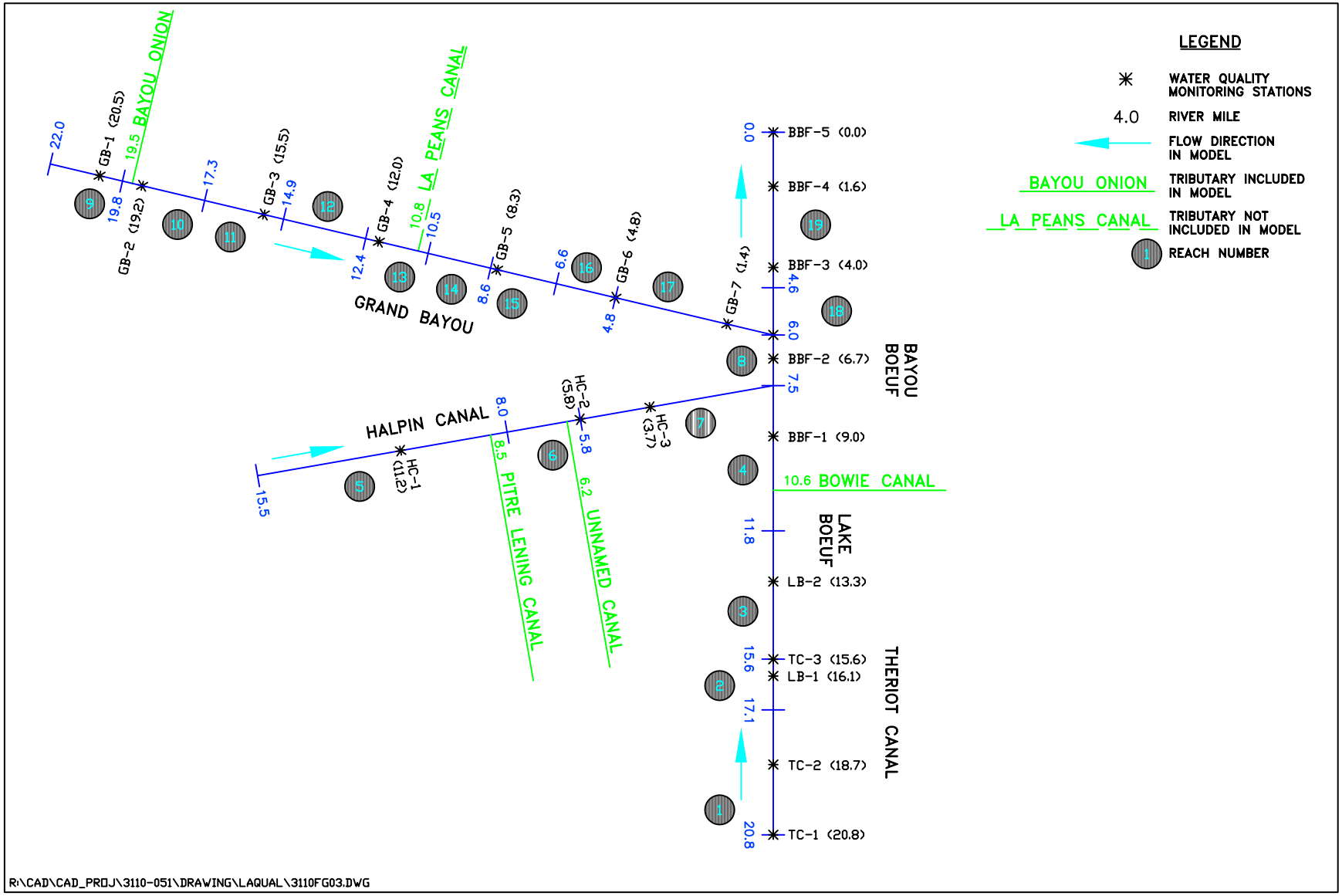


Figure D.1. LA-QUAL vector diagram for subsegment 020102 and 020103.

APPENDIX E

Model Inputs for Calibration

APPENDIX E. BOEUF SYSTEM MODEL INPUTS FOR CALIBRATION

Table E.1. Calibration Inputs for Hydraulics (Data Type 9).

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 between calibration and projection are assumed to cause negligible changes in width.
Width Exponent, b	all	0	
Width Constant, c	1	20.9	Average of widths measured at TC-1 and TC-2 during field survey
	2	14.0	Width measured at TC-3 during field survey
	3	1748	Area of lake from DOQQ divided by length of reach
	4	47.85	Average of widths from dye study XS's
	5	23.2	Width measured at HC-1 during field survey
	6	23.8	Average of reaches 5 and 7
	7	24.4	Width measured at HC-2 during field survey
	8	41.5	Width measured during dye study
	9	19.5	Width measured at GB-1 during manual flow measurement on 6/17/03
	10	32.5	Average of widths from acoustic Doppler flow measurements at GB-2 on 6/17 & 6/18
	11	29.26	Width measured at GB-3 during dye dump
	12	22.25	Average of widths from dye study XS's
	13	28.1	Average of widths from acoustic Doppler flow measurements at GB-4 on 6/17 & 6/18
	14	36.7	Average of widths from dye study XS's
	15	32.92	Average of widths from dye study XS's
	16	35.35	Average of widths from dye study XS's
	17	34.42	Average of widths from acoustic Doppler flow measurements at GB-4 on 6/17 & 6/18
	18	69.03	Average of widths from dye study XS's
	19	62.8	Average of widths from XS at BBf-3 and dye study XS's

Depth Coefficient, d	all	0	Set to zero because changes in flow between calibration and projection are assumed to cause negligible changes in depth.
Depth Exponent, e	all	0	
Depth Constant, f	1	0.56	Average of depths from XS's at TC-1 and TC-2 during field survey
	2	0.67	Depth from XS at TC-3 during field survey
	3	1.22	Based on field observations during recon
	4	1.325	Average of depths from dye study XS's
	5	0.76	Depth from XS at HC-1 during field survey
	6	1.05	Average of reaches 5 and 7
	7	1.34	Depth from XS at HC-2 during field survey
	8	1.71	Depth from dye study XS
	9	0.996	Depth measured at GB-1 during manual flow measurement on 6/17/03
	10	1.515	Average of depths from acoustic Doppler flow measurements at GB-2 on 6/17 & 6/18
	11	1.12	Depth measured at GB-3 during dye dump
	12	1.235	Average of depths from dye study XS's
	13	1.4	Average of depths from acoustic Doppler flow measurements at GB-4 on 6/17 & 6/18
	14	1.585	Average of depths from dye study XS's
	15	1.645	Average of depths from dye study XS's
	16	1.52	Average of depths from dye study XS's
	17	2.04	Average of depths from acoustic Doppler flow measurements at GB-6 on 6/17 & 6/18
	18	1.85	Average of depths from dye study XS's
	19	2.01	Average of depths from XS at BBf-3 and dye study XS's

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 (^{o}C)	1 – 2	28.30	Average of temperatures measured at TC-1 and TC-2 during field survey
	3	26.90	Average of temperatures measured at LB-1 and LB-2 during field survey
	4	28.32	Temperature measured at BBf-1 during field survey
	5, 6	27.21	Temperature measured at HC-1 during field survey
	7	27.74	Average of temperatures measured at HC-2 and HC-3 during field survey
	8	28.69	Temperature measured at BBf-2 during field survey
	9 – 13	26.82	Avg of temperatures measured at GB-1, GB-2, GB-3, and GB-4 during field survey
	14 – 17	27.98	Average of temperatures measured at GB-5, GB-6, and GB-7 during field survey
	18, 19	28.85	Average of temperatures measured at BBf-3 and BBf-4 during field survey
Salinity (ppt)	1	0.115	Average of salinities measured at TC-1 and TC-2 during field survey
	2, 3	0.1	Average of salinities measured at LB-1 and LB-2 during field survey
	4	0.09	Salinity measured at BBf-1 during field survey
	5, 6	0.12	Salinity measured at HC-1 during field survey
	7	0.125	Average of salinities measured at HC-2 and HC-3 during field survey
	8	0.11	Salinity measured at BBf-2 during field survey
	9 – 13	0.08	Average of salinities measured at GB-1, GB-2, GB-3, and GB-4 during field survey
	14 – 17	0.08	Average of salinities measured at GB-5, GB-6, and GB-7 during field survey
	18,19	0.10	Average of salinities measured at BBf-3 and BBf-4 during field survey

DO (mg/L)	1	5.7	Minimum DO +1 for continuous monitoring data at TC-1 on sampling day
	2, 3	0.1	Average DO for continuous monitoring data at LB-1 on sampling day
	4	3.1	Minimum DO +1 for continuous monitoring data at BBf-1 on sampling day
	5 – 7	1.7	Minimum DO +1 for continuous monitoring data at HC-2 on sampling day
	8	3.1	Minimum DO +1 for continuous monitoring data at BBf-1 on sampling day
	9 – 13	2.25	Average of mean daily DO values from continuous monitoring data at GB-1 and GB-4 on sampling day
	14 – 17	2.6	Minimum DO +1 for continuous monitoring data at GB-6 on sampling day
	18, 19	3.0	Minimum DO +1 for continuous monitoring data at BBf-3 on sampling day

Table E.3. Calibration Inputs for Kinetic Coefficients (Data Types 12 and 13).

Parameter name or description	**Reach(es)**	**Value used in model**	**Data Source / Comment**
Reaeration option	all	15	Louisiana Equation
CBODu decay rate	1-8, 18-19	0.07/day	Average of decay rates calculated in GSBOD spreadsheet for TC-1, TC-2, HC-1, HC-2, LB-1, LB-2, BBf-1, and BBf-3
	9-17	0.05/day	Average of decay rates calculated in GSBOD spreadsheet for GB-1, GB-2, GB-4, and GB-6
NBODu decay rate	1-8, 18-19	0.10/day	Average of decay rates calculated in GSBOD spreadsheet for TC-1, TC-2, HC-1, HC-2, LB-1, LB-2, BBf-1, and BBf-3
	9-17	0.36/day	Average of decay rates calculated in GSBOD spreadsheet for GB-1, GB-2, GB-4, and GB-6

Table E.4. Calibration Inputs for NPS Loads (Data Types 12 and 19).

Reach	SOD ($g/m^2/day$)	CBODu mass load (kg/day)	NBODu mass load (kg/day)	Data Source / Comment
1	1.75	42	16	These values were treated as calibration parameters by adjusting them to until the model output was similar to the calibration target values.
2	1.00	18	6	
3	0.20	8900	3150	
4	1.60	325	75	
5	2.30	80	25	
6	6.00	1000	135	
7	3.50	800	160	
8	2.00	300	200	
9	8.00	100	170	
10	7.00	100	160	
11	9.00	0	150	
12	9.50	0	120	
13	6.50	0	120	
14	3.00	0	150	
15	4.50	0	150	
16	4.50	0	160	
17	1.50	0	525	
18	3.50	350	70	
19	3.50	700	260	

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

Parameter name	Reach(es)	Value used in model	Data Source / Comment
Flow rate (m^3/sec)	1-4	0	Based on water balance for June 17-18 using flow measurements and estimates for tributaries, headwaters, and main stem stations (as discussed in Section 4.2.11 with calculations shown in Appendix G).
	5	0.3778	
	6	0.1108	
	7, 8	0	
	9	0.2008	
	10	0.2282	
	11	0.2191	
	12	0.2282	
	13	0.1734	
	14	0.1734	
	15	0.1826	
	16	0.1643	
	17-19	0	
Chloride	5,6	29.1 mg/L	measured in situ value from HC-1
	9-16	22.5 mg/L	average of measured in situ values at LPC-1 and BO-1
Conductivity	5,6	245.2 µmhos	24 hour average of continuous monitor values for sampling day at HC-1
	9-16	208 µmhos	24 hour average of continuous monitor values for sampling day at LPC-1 and BO-1
DO	5,6	3.40 mg/L	24 hour minimum +1 mg/L of continuous monitor values for sampling day at HC-1
	9-16	1.32 mg/L	24 hour average of continuous monitor values for sampling day at LPC-1 and BO-1
CBODu	5,6	6.59 mg/L	Value for HC-1 calculated using GSBOD spreadsheet
	9-16	8.24 mg/L	Average of values for LPC-1 and BO-1 calculated using GSBOD spreadsheet
NBODu	5,6	1.17 mg/L	Value for HC-1 calculated using GSBOD spreadsheet
	9-16	2.16 mg/L	Average of values for LPC-1 and BO-1 calculated using GSBOD spreadsheet

Table E.6. Calibration Inputs for Headwaters (Data Types 20, 21, and 22).

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Theriot Canal	Flow Rate	0.028 m^3/sec	See section 4.2.11
	Chloride	17.5 ppm	90% saturation at average temperature on sampling day from continuous monitor
	Conductivity	288.4 µmhos	
	DO	7.70 mg/L	24 hour average of continuous monitoring data on sampling day from station TC-1
	CBODu	5.99 mg/L	Calculated using GSBOD spreadsheet from intensive survey data at station TC-1
	NBODu	0.96 mg/L	
Halpin Canal	Flow Rate	0.0 m^3/sec	See Section 4.2.11
	Chloride	29.1 mg/L	Measured values at HC-1 on sampling day
	Conductivity	245.2 µmhos	
	DO	3.40 mg/L	Estimated daily minimum +1 DO for HC-1
	CBODu	6.59 mg/L	Calculated using GSBOD spreadsheet from intensive survey data at station HC-1
	NBODu	1.17 mg/L	
Grand Bayou	Flow Rate	2.18 m^3/sec	See Section 4.2.11
	Chloride	12.1 mg/L	Measured values at GB-1 on sampling day
	Conductivity	165.2 umhos	
	DO	2.4 mg/L	24 hour average of continuous monitoring data on sampling day from station GB-1
	CBODu	8.41 mg/L	Calculated using GSBOD spreadsheet from intensive survey data at station GB-1
	NBODu	2.50 mg/L	

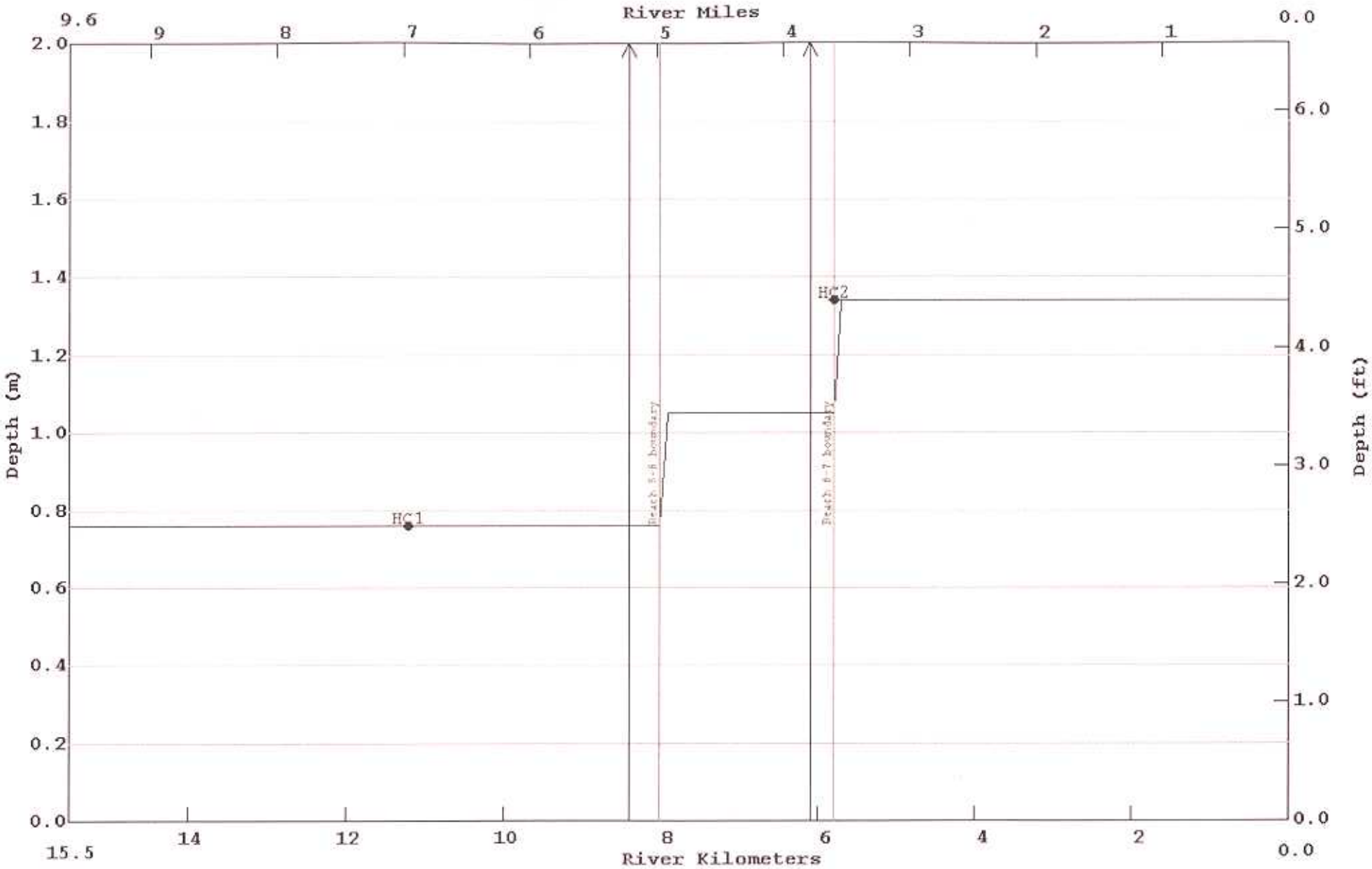
Table E.7. Calibration Inputs for Wasteloads (Data Types 24, 25, and 26).

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Bowie Canal	Flow Rate	1.265 m^3/sec	See Section 4.2.11
	Chloride	36.6 mg/L	Measured values at BoC-1 on sampling day
	Conductivity	199.2 µmhos	
	DO	2.3 mg/L	24 hour average of continuous monitoring data on sampling day from station BoC-1
	CBODu	9.97 mg/L	Calculated using GSBOD spreadsheet from intensive survey data at BoC-1
	NBODu	1.77 mg/L	
Pitre Lening Canal and Unnamed Canal (tributaries to Halpin Canal)	Flow	1.04 m^3/sec	See Section 4.2.11
	Chloride	24.2 mg/L	Measured values at LPC-1 on sampling day
	Conductivity	201.4 µmhos	
	DO	0.8 mg/L	24 hour average of continuous monitoring data on sampling day from station LPC-1
	CBODu	6.53 mg/L	Calculated using GSBOD spreadsheet from intensive survey data at LPC-1
	NBODu	1.35 mg/L	
Bayou Onion	Flow	1.04 m^3/sec	See Section 4.2.11
	Chloride	19.4 mg/L	Measured values at BO-1 on sampling day
	Conductivity	207.7 µmhos	
	DO	1.90 mg/L	24 hour average of continuous monitoring data on sampling day from station BO-1
	CBODu	9.95 mg/L	Calculated using GSBOD spreadsheet from intensive survey data at BO-1
	NBODu	2.97 mg/L	
Kraemer Bridge (LA DOTD)	Flow	1.1E-4 m^3/sec	Based on expected flow of 2500 gal/day
	DO	2.00 mg/L	Assumed value for secondary treatment
	CBODu	103.5 mg/L	Based on BOD5 limit (45 mg/L) times 2.3
	NBODu	64.5 mg/L	Based on assumed NH3-N conc. of 15 mg/L (for secondary treatment) times 4.3
Boeuf Elementary School	Flow	2.2E-4 m^3/sec	Based on expected flow of 5000 gal/day
	DO	2.00 mg/L	Assumed value for secondary treatment
	CBODu	103.5 mg/L	Based on BOD5 limit (45 mg/L) times 2.3
	NBODu	64.5 mg/L	Based on assumed NH3-N conc. of 15 mg/L (for secondary treatment) times 4.3

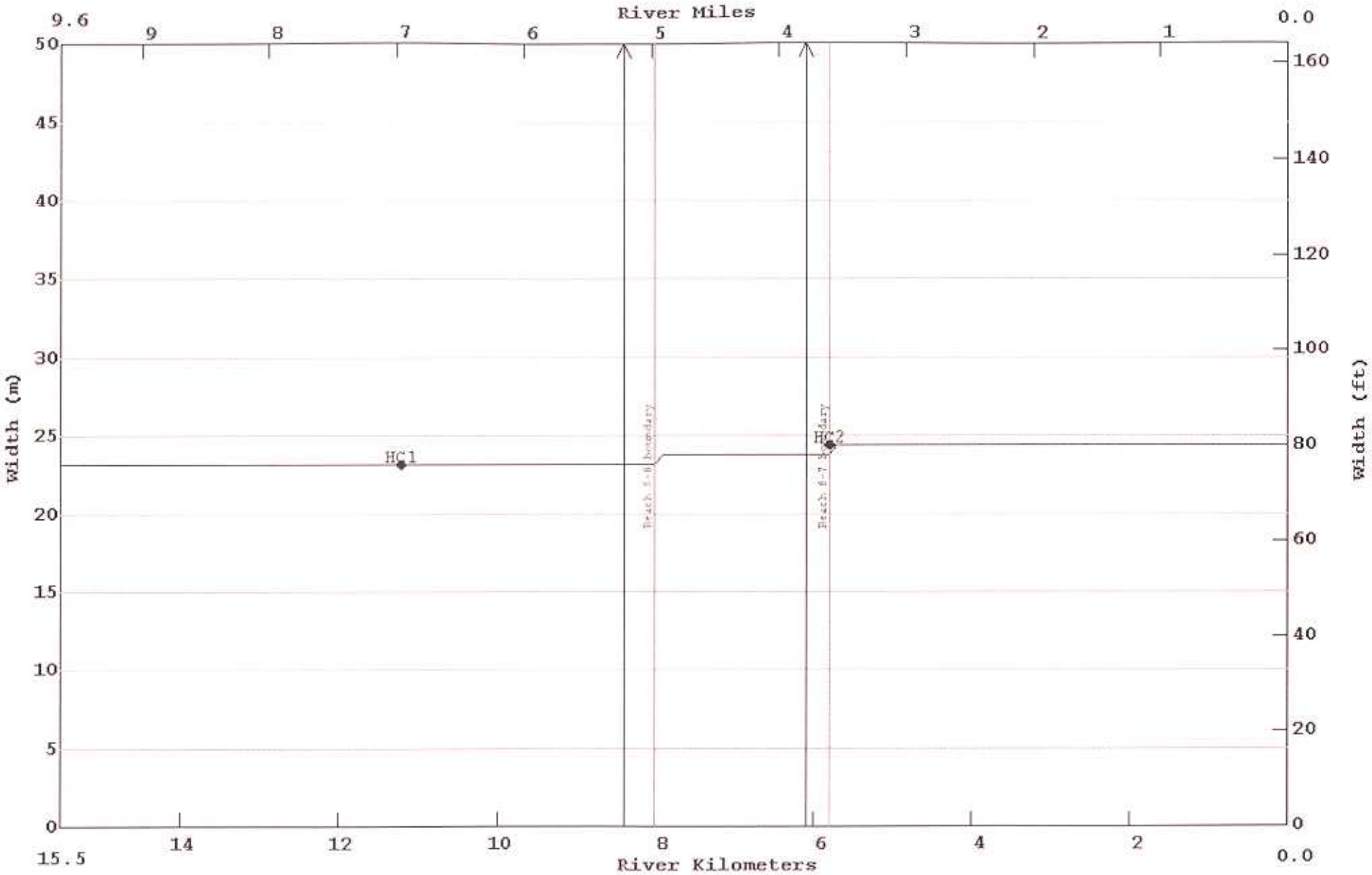
APPENDIX F

Observed and Modeled Depths and Widths

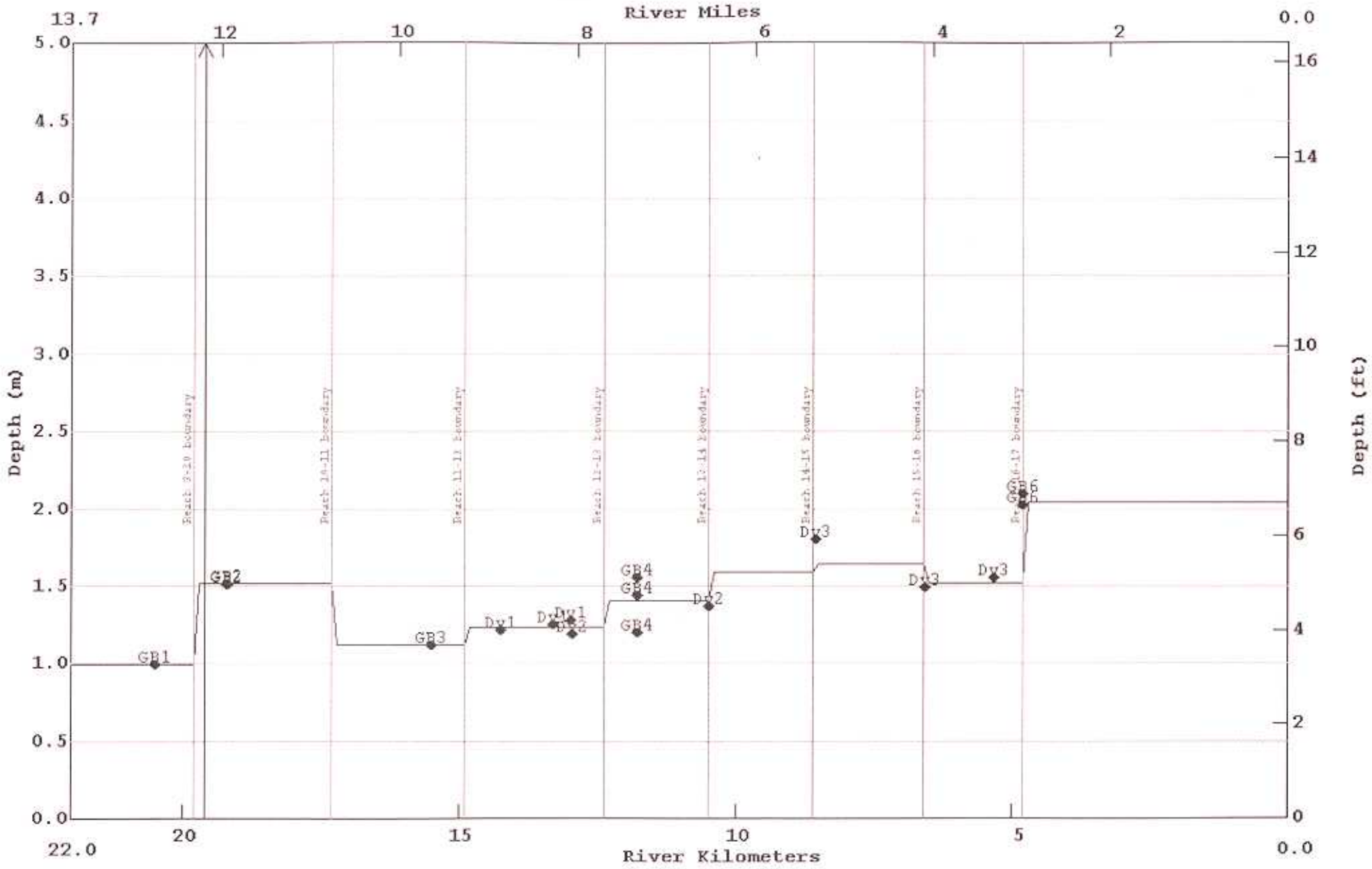
LA-QUAL Version 6.02 Run at 14:21 on 03/03/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 0.76 max= 1.34
Halpin Canal



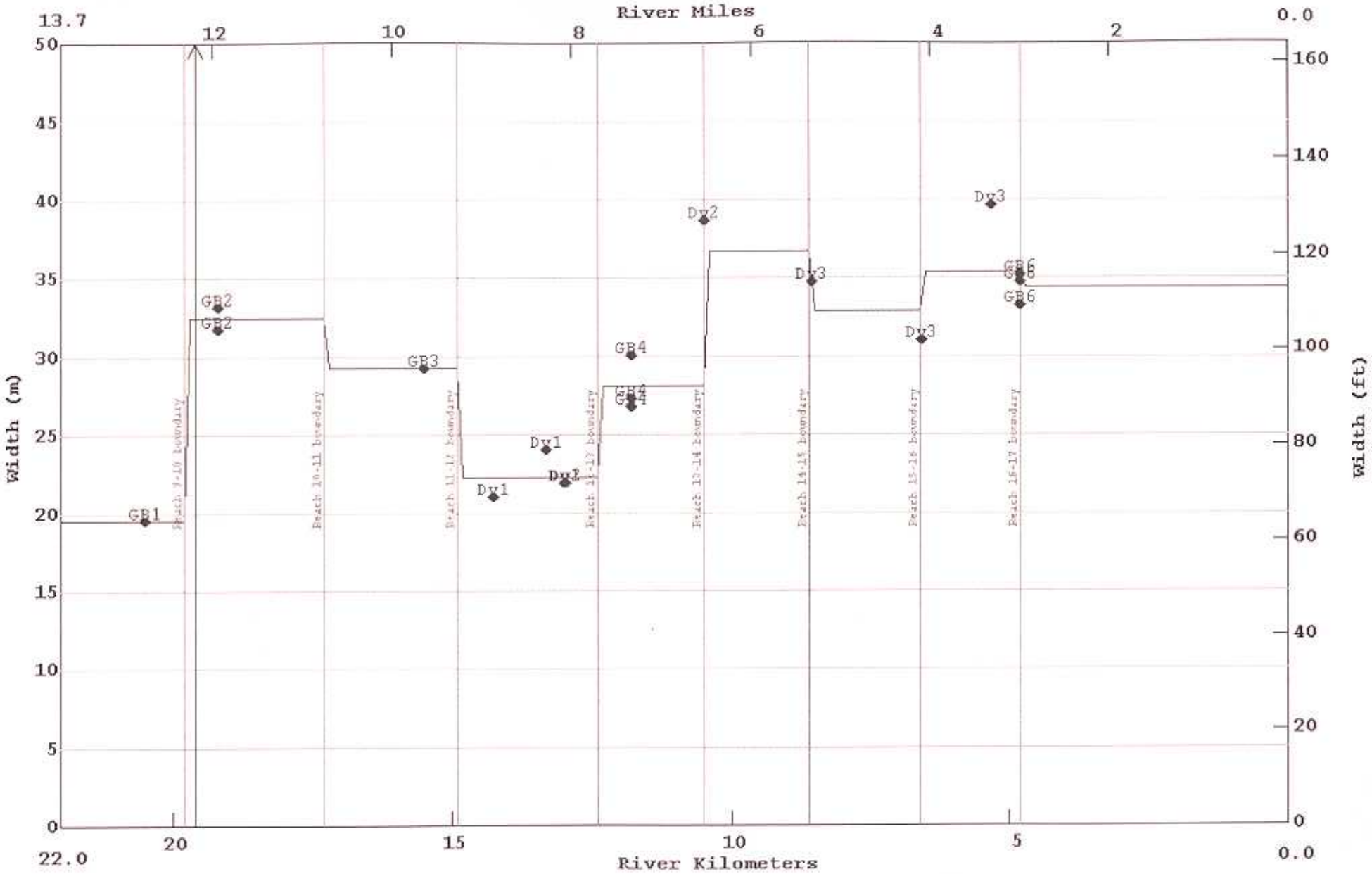
LA-QUAL Version 6.02 Run at 14:21 on 03/03/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 23.20 max= 24.40
Halpin Canal



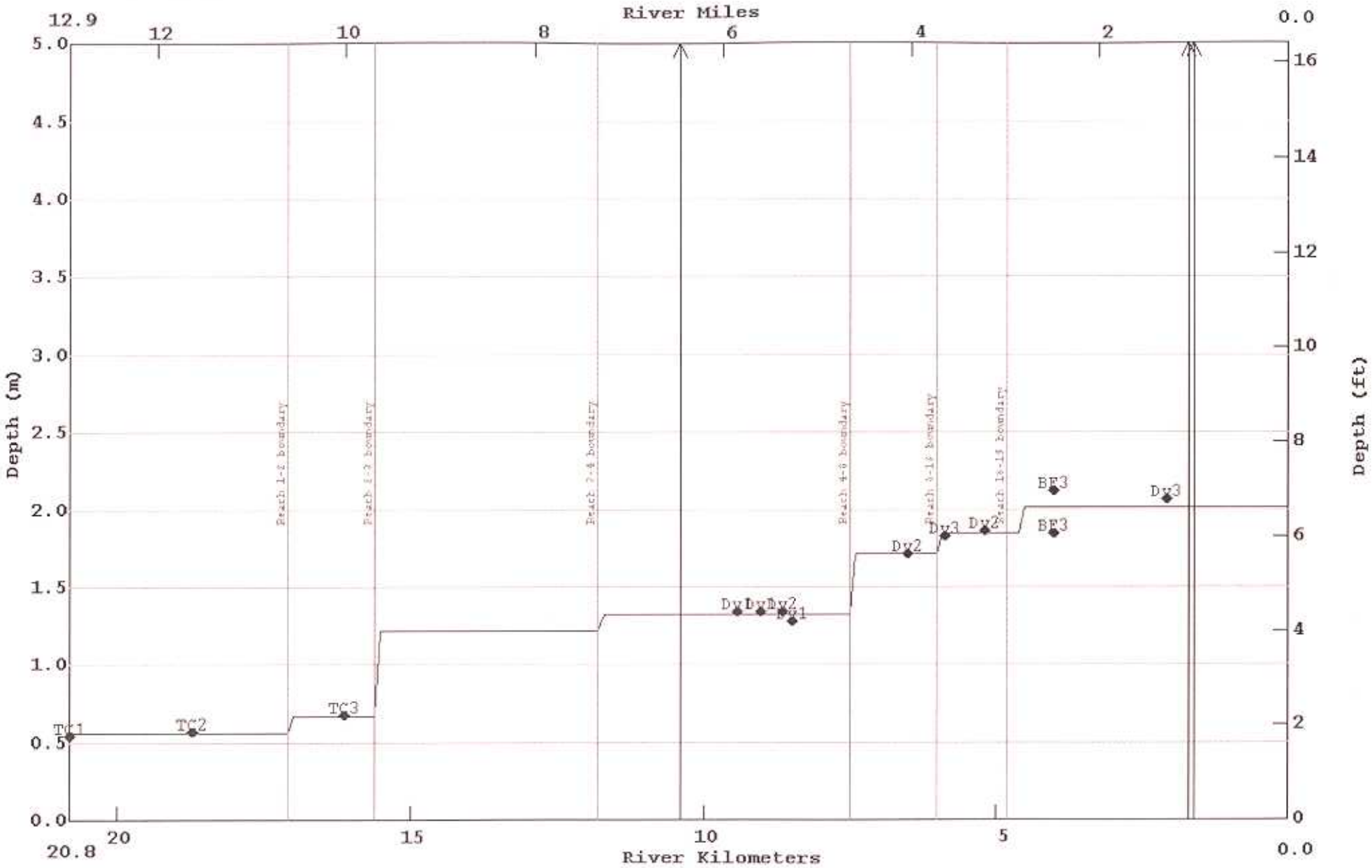
LA-QUAL Version 6.02 Run at 14:21 on 03/03/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 1.00 max= 2.04
XCS on Grand Bayou



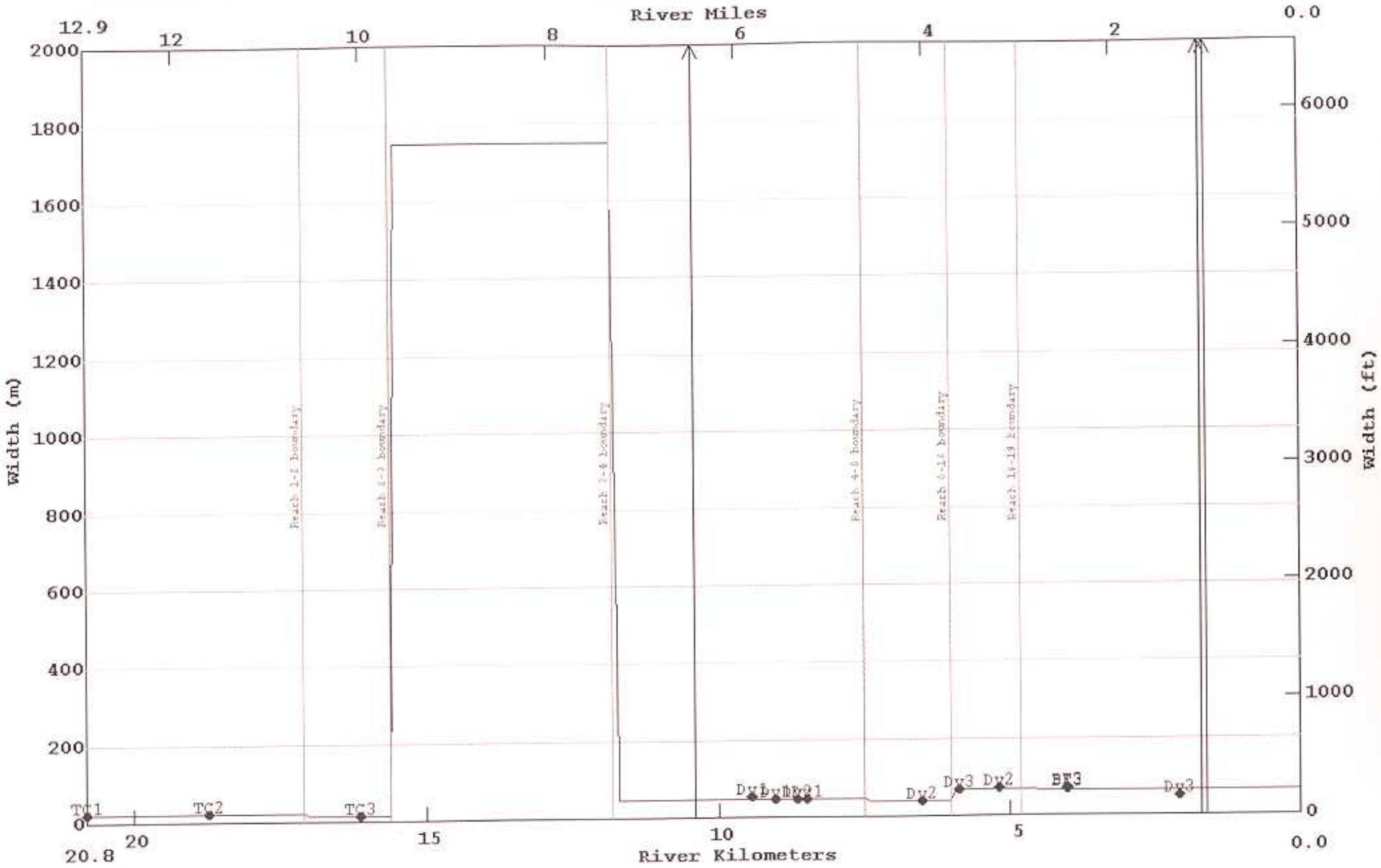
LA-QUAL Version 6.02 Run at 14:21 on 03/03/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 19.50 max= 36.70
XCS on Grand Bayou



LA-QUAL Version 6.02 Run at 14:21 on 03/03/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 0.56 max= 2.01
XCS on Main Stem



LA-QUAL Version 6.02 Run at 14:21 on 03/03/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 14.00 max= 1748.00
XCS on Main Stem



APPENDIX G

Flow Calculations

INCREMENTAL FLOW CALCUALTIONS

Southern Halpin Canal (Reach 5 and 6)

avg flow at HC-1	7.65	cfs	average of drogue measurements on 6/17/03 and 6/18/03
	0.22	cms	
length	4.30	km	this goes from begining of Southern Halpin Canal to HC-1
flow/length	0.05	cms/km	
reach 5 length	7.50	km	
reach 6 length	2.20	km	
inc flow in Reach 5	**0.3778**	**cms**	**Model input**
inc flow in Reach 6	**0.1108**	**cms**	**Model input**
avg flow at HC-2	90.85	cfs	average of drogue measurements on 6/17/03 and 6/18/03
	2.57	cms	
wasteload flows	1.10	cms	this is the flow measured at HC-2 minus the incremental flow divided by two so the two wasteloads have equal flows

Grand Bayou (Reaches 9-16)

	76.90	cfs	average of drogue on 6/17/03 and acoustic doppler on 6/18/03
	2.18	cms	
Bayou Onion	36.60	cfs	average of drogue measurements on 6/17/03 and 6/18/03
	1.04	cms	

inc flow for Reaches 8 and 9

flow at GB-6	169.00	cfs	average of acoustic doppler measurements on 6/17/03 and 6/18/03
Grand Bayou headwater flow	-76.90	cfs	subtract out headwater
Bayou Onion inflow	-36.65	cfs	subtract out Bayou Onion
	55.45	cfs	need to add this amount in reaches 8 and 9
	1.57	cms	
lenght	17.20	km	combined length of reaches 8 and 9
	3.22	cfs/km	
	0.09	cms/km	

	beg RKM	end RKM	length (km)
length of Reach 9	22	19.8	2.20
length of Reach 10	19.8	17.3	2.50
length of Reach 11	17.30	14.9	2.40
length of Reach 12	14.90	12.4	2.50
length of Reach 13	12.40	10.5	1.90
length of Reach 14	10.50	8.6	1.90
length of Reach 15	8.60	6.6	2.00
length of Reach 16	6.60	4.8	1.80

inc flow for reach 9	**0.2008**	**cms**	**Model input**
inc flow for reach 10	**0.2282**	**cms**	**Model input**
inc flow for reach 11	**0.2191**	**cms**	**Model input**
inc flow for reach 12	**0.2282**	**cms**	**Model input**
inc flow for reach 13	**0.1734**	**cms**	**Model input**
inc flow for reach 14	**0.1734**	**cms**	**Model input**
inc flow for reach 15	**0.1826**	**cms**	**Model input**
inc flow for reach 16	**0.1643**	**cms**	**Model input**

FILE: R:\PROJECTS\3110-051\BEOUF PDF\FLOWS.XLS

APPENDIX H1

Estimated Daily Minimum DO Calculations

Table H1.1.Continuous Data Used for TC-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
6/18/03	0:00:00	5.90	1.26					
6/18/03	0:15:00	5.70	1.21					
6/18/03	0:30:00	5.80	1.23					
6/18/03	0:45:00	5.90	1.26					
6/18/03	1:00:00	5.80	1.23					
6/18/03	1:15:00	5.70	1.21					
6/18/03	1:30:00	5.50	1.17					
6/18/03	1:45:00	5.50	1.17					
6/18/03	2:00:00	5.70	1.21					
6/18/03	2:15:00	5.70	1.21					
6/18/03	2:30:00	5.60	1.19					
6/18/03	2:45:00	5.50	1.17					
6/18/03	3:00:00	5.50	1.17					
6/18/03	3:15:00	5.40	1.15					
6/18/03	3:30:00	5.30	1.13					
6/18/03	3:45:00	5.30	1.13					
6/18/03	4:00:00	5.20	1.11					
6/18/03	4:15:00	5.30	1.13					
6/18/03	4:30:00	5.30	1.13					
6/18/03	4:45:00	5.20	1.11					
6/18/03	5:00:00	5.10	1.09					
6/18/03	5:15:00	5.30	1.13					
6/18/03	5:30:00	4.80	1.02					
6/18/03	5:45:00	4.70	1.00					
6/18/03	6:00:00	5.20	1.11					
6/18/03	6:15:00	5.30	1.13					
6/18/03	6:30:00	5.20	1.11					
6/18/03	6:45:00	5.10	1.09					
6/18/03	7:00:00	5.10	1.09					
6/18/03	7:15:00	5.10	1.09					
6/18/03	7:30:00	5.10	1.09					
6/18/03	7:45:00	5.20	1.11					
6/18/03	8:00:00	5.30	1.13					
6/18/03	8:15:00	5.10	1.09					
6/18/03	8:30:00	5.20	1.11					
6/18/03	8:45:00	5.10	1.09					
6/18/03	9:00:00	5.30	1.13					
6/18/03	9:15:00	5.40	1.15					
6/18/03	9:30:00	5.60	1.19					
6/18/03	9:45:00	5.60	1.19					
6/18/03	10:00:00	5.70	1.21					

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
6/18/03	10:15:00	5.60	1.19					
6/18/03	10:30:00	5.80	1.23					
6/18/03	10:45:00	5.90	1.26					
6/18/03	11:00:00	6.20	1.32	TC-2	6/18/03	11:00	3.22	2.44
6/18/03	11:15:00	6.40	1.36					
6/18/03	11:30:00	6.60	1.40					
6/18/03	11:45:00	7.00	1.49					
6/18/03	12:00:00	7.20	1.53					
6/18/03	12:15:00	7.40	1.57					
6/18/03	12:30:00	7.20	1.53					
6/18/03	12:45:00	7.60	1.62					
6/18/03	13:00:00	7.70	1.64					
6/18/03	13:15:00	8.10	1.72					
6/18/03	13:30:00	8.10	1.72					
6/18/03	13:45:00	8.30	1.77					
6/18/03	14:00:00	8.60	1.83					
6/18/03	14:15:00	9.10	1.94					
6/18/03	14:30:00	9.00	1.91					
6/18/03	14:45:00	9.10	1.94					
6/18/03	15:00:00	9.10	1.94					
6/18/03	15:15:00	9.20	1.96					
6/18/03	15:30:00	9.30	1.98					
6/18/03	15:45:00	9.70	2.06					
6/18/03	16:00:00	9.80	2.09					
6/18/03	16:15:00	10.00	2.13					
6/18/03	16:30:00	10.30	2.19					
6/18/03	16:45:00	10.60	2.26					
6/18/03	17:00:00	10.30	2.19					
6/18/03	17:15:00	11.20	2.38					
6/18/03	17:30:00	11.10	2.36					
6/18/03	17:45:00	11.20	2.38					
6/18/03	18:00:00	11.10	2.36					
6/18/03	18:15:00	11.30	2.40					
6/18/03	18:30:00	11.20	2.38					
6/18/03	18:45:00	11.20	2.38					
6/18/03	19:00:00	11.10	2.36					
6/18/03	19:15:00	11.20	2.38					
6/18/03	19:30:00	11.20	2.38					
6/18/03	19:45:00	11.30	2.40					
6/18/03	20:00:00	11.20	2.38					
6/18/03	20:15:00	11.00	2.34					
6/18/03	20:30:00	11.00	2.34					
6/18/03	20:45:00	10.80	2.30					

Table H1.1.
Survey Station TC-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
6/18/03	21:00:00	10.40	2.21					
6/18/03	21:15:00	10.70	2.28					
6/18/03	21:30:00	10.50	2.23					
6/18/03	21:45:00	10.30	2.19					
6/18/03	22:00:00	10.00	2.13					
6/18/03	22:15:00	10.40	2.21					
6/18/03	22:30:00	9.90	2.11					
6/18/03	22:45:00	10.10	2.15					
6/18/03	23:00:00	10.30	2.19					
6/18/03	23:15:00	10.20	2.17					
6/18/03	23:30:00	10.10	2.15					
6/18/03	23:45:00	9.80	2.09					
6/19/03	0:00:00	9.70	2.06					
	MIN =	4.70						

FILE: R:\PROJECTS\3110-051\BEOUF PDF\DO MIN CALCULATIONS-BOEUF.XLS

Table H1.1.
Survey Station TC-1

Table H1.2.Continuous Data Used for LB-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
6/18/03	0:00:00	.						
6/18/03	0:15:00	.						
6/18/03	0:30:00	0.10	1.00					
6/18/03	0:45:00	0.10	1.00					
6/18/03	1:00:00	.						
6/18/03	1:15:00	.						
6/18/03	1:30:00	0.10	1.00					
6/18/03	1:45:00	0.10	1.00					
6/18/03	2:00:00	0.10	1.00					
6/18/03	2:15:00	0.10	1.00					
6/18/03	2:30:00	0.20	2.00					
6/18/03	2:45:00	0.20	2.00					
6/18/03	3:00:00	0.20	2.00					
6/18/03	3:15:00	0.10	1.00					
6/18/03	3:30:00	0.10	1.00					
6/18/03	3:45:00	0.10	1.00					
6/18/03	4:00:00	0.10	1.00					
6/18/03	4:15:00	0.10	1.00					
6/18/03	4:30:00	0.10	1.00					
6/18/03	4:45:00	0.10	1.00					
6/18/03	5:00:00	0.10	1.00					
6/18/03	5:15:00	0.10	1.00					
6/18/03	5:30:00	.						
6/18/03	5:45:00	.						
6/18/03	6:00:00	.						
6/18/03	6:15:00	0.10	1.00					
6/18/03	6:30:00	.						
6/18/03	6:45:00	0.10	1.00					
6/18/03	7:00:00	.						
6/18/03	7:15:00	.						
6/18/03	7:30:00	0.10	1.00					
6/18/03	7:45:00	0.10	1.00					
6/18/03	8:00:00	0.10	1.00					
6/18/03	8:15:00	0.10	1.00					
6/18/03	8:30:00	0.40	4.00					
6/18/03	8:45:00	0.10	1.00					
6/18/03	9:00:00	0.10	1.00					
6/18/03	9:15:00	0.10	1.00					
6/18/03	9:30:00	0.10	1.00					
6/18/03	9:45:00	0.20	2.00					
6/18/03	10:00:00	0.10	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
6/18/03	10:15:00	0.10	1.00					
6/18/03	10:30:00	0.10	1.00					
6/18/03	10:45:00	0.10	1.00					
6/18/03	11:00:00	0.30	3.00					
6/18/03	11:15:00	0.20	2.00					
6/18/03	11:30:00	0.10	1.00					
6/18/03	11:45:00	0.10	1.00					
6/18/03	12:00:00	0.10	1.00					
6/18/03	12:15:00	0.10	1.00					
6/18/03	12:30:00	0.10	1.00					
6/18/03	12:45:00	0.10	1.00					
6/18/03	13:00:00	0.10	1.00					
6/18/03	13:15:00	0.10	1.00					
6/18/03	13:30:00	0.10	1.00					
6/18/03	13:45:00	0.10	1.00					
6/18/03	14:00:00	0.10	1.00					
6/18/03	14:15:00	0.10	1.00					
6/18/03	14:30:00	0.10	1.00					
6/18/03	14:45:00	0.10	1.00					
6/18/03	15:00:00	0.10	1.00					
6/18/03	15:15:00	0.10	1.00					
6/18/03	15:30:00	0.10	1.00					
6/18/03	15:45:00	.						
6/18/03	16:00:00	0.10	1.00					
6/18/03	16:15:00	.						
6/18/03	16:30:00	.						
6/18/03	16:45:00	.						
6/18/03	17:00:00	0.20	2.00					
6/18/03	17:15:00	0.10	1.00					
6/18/03	17:30:00	.						
6/18/03	17:45:00	0.10	1.00					
6/18/03	18:00:00	.						
6/18/03	18:15:00	0.30	3.00					
6/18/03	18:30:00	.						
6/18/03	18:45:00	.						
6/18/03	19:00:00	0.10	1.00					
6/18/03	19:15:00	.						
6/18/03	19:30:00	.						
6/18/03	19:45:00	0.10	1.00					
6/18/03	20:00:00	.						
6/18/03	20:15:00	.						
6/18/03	20:30:00	.						
6/18/03	20:45:00	.						

Table H1.2.
Survey Station LB-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
6/18/03	21:00:00	.						
6/18/03	21:15:00	.						
6/18/03	21:30:00	.						
6/18/03	21:45:00	.						
6/18/03	22:00:00	.						
6/18/03	22:15:00	.						
6/18/03	22:30:00	0.10	1.00					
6/18/03	22:45:00	.						
6/18/03	23:00:00	.						
6/18/03	23:15:00	.						
6/18/03	23:30:00	.						
6/18/03	23:45:00	0.10	1.00					
6/19/03	0:00:00	.						
	MIN =	0.10						

FILE: R:\PROJECTS\3110-051\BEOUF PDF\DO MIN CALCULATIONS-BOEUF.XLS

Table H1.2.
Survey Station LB-1

Table H1.3.Continuous Data Used for BBf-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
6/18/03	0:00:00	3.10	1.48					
6/18/03	0:15:00	3.00	1.43					
6/18/03	0:30:00	3.00	1.43					
6/18/03	0:45:00	2.90	1.38					
6/18/03	1:00:00	2.90	1.38					
6/18/03	1:15:00	2.80	1.33					
6/18/03	1:30:00	2.80	1.33					
6/18/03	1:45:00	2.80	1.33					
6/18/03	2:00:00	2.80	1.33					
6/18/03	2:15:00	2.70	1.29					
6/18/03	2:30:00	2.70	1.29					
6/18/03	2:45:00	2.70	1.29					
6/18/03	3:00:00	2.60	1.24					
6/18/03	3:15:00	2.60	1.24					
6/18/03	3:30:00	2.60	1.24					
6/18/03	3:45:00	2.50	1.19					
6/18/03	4:00:00	2.40	1.14					
6/18/03	4:15:00	2.50	1.19					
6/18/03	4:30:00	2.40	1.14					
6/18/03	4:45:00	2.40	1.14					
6/18/03	5:00:00	2.40	1.14					
6/18/03	5:15:00	2.30	1.10					
6/18/03	5:30:00	2.30	1.10					
6/18/03	5:45:00	2.30	1.10					
6/18/03	6:00:00	2.30	1.10					
6/18/03	6:15:00	2.20	1.05					
6/18/03	6:30:00	2.20	1.05					
6/18/03	6:45:00	2.20	1.05					
6/18/03	7:00:00	2.20	1.05					
6/18/03	7:15:00	2.20	1.05					
6/18/03	7:30:00	2.10	1.00					
6/18/03	7:45:00	2.10	1.00					
6/18/03	8:00:00	2.10	1.00					
6/18/03	8:15:00	2.10	1.00					
6/18/03	8:30:00	2.10	1.00					
6/18/03	8:45:00	2.20	1.05					
6/18/03	9:00:00	2.20	1.05					
6/18/03	9:15:00	2.10	1.00					
6/18/03	9:30:00	2.10	1.00					
6/18/03	9:45:00	2.30	1.10					
6/18/03	10:00:00	2.30	1.10	BBf-2	6/18/03	9:55	2.67	2.44

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
6/18/03	10:15:00	2.80	1.33					
6/18/03	10:30:00	2.50	1.19					
6/18/03	10:45:00	2.40	1.14					
6/18/03	11:00:00	2.70	1.29					
6/18/03	11:15:00	2.60	1.24					
6/18/03	11:30:00	2.60	1.24					
6/18/03	11:45:00	3.10	1.48					
6/18/03	12:00:00	2.30	1.10					
6/18/03	12:15:00	3.10	1.48					
6/18/03	12:30:00	2.90	1.38					
6/18/03	12:45:00	3.30	1.57					
6/18/03	13:00:00	3.10	1.48					
6/18/03	13:15:00	3.80	1.81					
6/18/03	13:30:00	3.70	1.76					
6/18/03	13:45:00	3.60	1.71					
6/18/03	14:00:00	3.90	1.86					
6/18/03	14:15:00	4.50	2.14					
6/18/03	14:30:00	4.40	2.10					
6/18/03	14:45:00	4.10	1.95					
6/18/03	15:00:00	4.20	2.00					
6/18/03	15:15:00	5.00	2.38					
6/18/03	15:30:00	4.60	2.19					
6/18/03	15:45:00	4.20	2.00					
6/18/03	16:00:00	4.40	2.10					
6/18/03	16:15:00	4.40	2.10					
6/18/03	16:30:00	4.40	2.10					
6/18/03	16:45:00	3.90	1.86					
6/18/03	17:00:00	4.90	2.33					
6/18/03	17:15:00	4.40	2.10					
6/18/03	17:30:00	4.30	2.05					
6/18/03	17:45:00	4.30	2.05					
6/18/03	18:00:00	5.20	2.48					
6/18/03	18:15:00	5.10	2.43					
6/18/03	18:30:00	4.90	2.33					
6/18/03	18:45:00	5.50	2.62					
6/18/03	19:00:00	5.80	2.76					
6/18/03	19:15:00	5.40	2.57					
6/18/03	19:30:00	5.30	2.52					
6/18/03	19:45:00	5.00	2.38					
6/18/03	20:00:00	5.30	2.52					
6/18/03	20:15:00	5.40	2.57					
6/18/03	20:30:00	5.20	2.48					
6/18/03	20:45:00	5.00	2.38					

Table H1.3.
Survey Station BBf-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
6/18/03	21:00:00	5.00	2.38					
6/18/03	21:15:00	4.80	2.29					
6/18/03	21:30:00	4.60	2.19					
6/18/03	21:45:00	4.50	2.14					
6/18/03	22:00:00	4.40	2.10					
6/18/03	22:15:00	4.30	2.05					
6/18/03	22:30:00	4.40	2.10					
6/18/03	22:45:00	4.30	2.05					
6/18/03	23:00:00	4.20	2.00					
6/18/03	23:15:00	4.20	2.00					
6/18/03	23:30:00	4.10	1.95					
6/18/03	23:45:00	4.00	1.90					
6/19/03	0:00:00	4.10	1.95					
	MIN =	2.10						

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Table H1.3.
Survey Station BBf-1

Table H1.4.Continuous Data Used for BBf-3.

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
6/18/03	0:00:00	3.00	1.50					
6/18/03	0:15:00	3.00	1.50					
6/18/03	0:30:00	2.90	1.45					
6/18/03	0:45:00	2.90	1.45					
6/18/03	1:00:00	2.80	1.40					
6/18/03	1:15:00	2.90	1.45					
6/18/03	1:30:00	2.80	1.40					
6/18/03	1:45:00	2.80	1.40					
6/18/03	2:00:00	2.80	1.40					
6/18/03	2:15:00	2.80	1.40					
6/18/03	2:30:00	2.80	1.40					
6/18/03	2:45:00	2.70	1.35					
6/18/03	3:00:00	2.70	1.35					
6/18/03	3:15:00	2.60	1.30					
6/18/03	3:30:00	2.60	1.30					
6/18/03	3:45:00	2.60	1.30					
6/18/03	4:00:00	2.60	1.30					
6/18/03	4:15:00	2.50	1.25					
6/18/03	4:30:00	2.50	1.25					
6/18/03	4:45:00	2.50	1.25					
6/18/03	5:00:00	2.40	1.20					
6/18/03	5:15:00	2.50	1.25					
6/18/03	5:30:00	2.40	1.20					
6/18/03	5:45:00	2.40	1.20					
6/18/03	6:00:00	2.30	1.15					
6/18/03	6:15:00	2.30	1.15					
6/18/03	6:30:00	2.30	1.15					
6/18/03	6:45:00	2.30	1.15					
6/18/03	7:00:00	2.20	1.10					
6/18/03	7:15:00	2.20	1.10					
6/18/03	7:30:00	2.20	1.10					
6/18/03	7:45:00	2.10	1.05					
6/18/03	8:00:00	2.10	1.05					
6/18/03	8:15:00	2.20	1.10					
6/18/03	8:30:00	2.20	1.10					
6/18/03	8:45:00	2.20	1.10					
6/18/03	9:00:00	2.20	1.10					
6/18/03	9:15:00	2.20	1.10					
6/18/03	9:30:00	2.20	1.10	BBf-4	6/18/03	930	2.65	2.41
6/18/03	9:45:00	2.30	1.15					
6/18/03	10:00:00	2.20	1.10					

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
6/18/03	10:15:00	2.20	1.10					
6/18/03	10:30:00	2.50	1.25					
6/18/03	10:45:00	2.10	1.05					
6/18/03	11:00:00	2.00	1.00					
6/18/03	11:15:00	2.00	1.00					
6/18/03	11:30:00	2.20	1.10					
6/18/03	11:45:00	2.10	1.05					
6/18/03	12:00:00	2.00	1.00					
6/18/03	12:15:00	2.10	1.05					
6/18/03	12:30:00	2.10	1.05					
6/18/03	12:45:00	2.30	1.15					
6/18/03	13:00:00	2.30	1.15					
6/18/03	13:15:00	2.50	1.25					
6/18/03	13:30:00	2.40	1.20					
6/18/03	13:45:00	2.50	1.25					
6/18/03	14:00:00	2.50	1.25					
6/18/03	14:15:00	2.40	1.20					
6/18/03	14:30:00	2.60	1.30					
6/18/03	14:45:00	2.60	1.30					
6/18/03	15:00:00	2.70	1.35					
6/18/03	15:15:00	2.60	1.30					
6/18/03	15:30:00	2.90	1.45					
6/18/03	15:45:00	2.60	1.30					
6/18/03	16:00:00	2.80	1.40					
6/18/03	16:15:00	2.60	1.30					
6/18/03	16:30:00	3.50	1.75					
6/18/03	16:45:00	2.50	1.25					
6/18/03	17:00:00	3.20	1.60					
6/18/03	17:15:00	2.90	1.45					
6/18/03	17:30:00	3.30	1.65					
6/18/03	17:45:00	3.20	1.60					
6/18/03	18:00:00	3.50	1.75					
6/18/03	18:15:00	3.20	1.60					
6/18/03	18:30:00	4.20	2.10					
6/18/03	18:45:00	3.10	1.55					
6/18/03	19:00:00	4.20	2.10					
6/18/03	19:15:00	4.20	2.10					
6/18/03	19:30:00	4.60	2.30					
6/18/03	19:45:00	4.40	2.20					
6/18/03	20:00:00	4.20	2.10					
6/18/03	20:15:00	4.10	2.05					
6/18/03	20:30:00	4.00	2.00					
6/18/03	20:45:00	3.90	1.95					

Table H1.4.
Survey Station BBf-3

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
6/18/03	21:00:00	3.90	1.95					
6/18/03	21:15:00	3.80	1.90					
6/18/03	21:30:00	3.70	1.85					
6/18/03	21:45:00	3.70	1.85					
6/18/03	22:00:00	3.60	1.80					
6/18/03	22:15:00	3.10	1.55					
6/18/03	22:30:00	3.20	1.60					
6/18/03	22:45:00	3.30	1.65					
6/18/03	23:00:00	3.40	1.70					
6/18/03	23:15:00	3.10	1.55					
6/18/03	23:30:00	3.40	1.70					
6/18/03	23:45:00	3.30	1.65					
6/19/03	0:00:00	3.10	1.55					
	MIN =	2.00						

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Table H1.4.
Survey Station BBf-3

Table H1.5.Continuous Data Used for BBf-5.

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
6/18/03	0:00:00	3.00	1.67					
6/18/03	0:15:00	3.00	1.67					
6/18/03	0:30:00	3.00	1.67					
6/18/03	0:45:00	2.90	1.61					
6/18/03	1:00:00	2.90	1.61					
6/18/03	1:15:00	2.70	1.50					
6/18/03	1:30:00	2.90	1.61					
6/18/03	1:45:00	2.80	1.56					
6/18/03	2:00:00	2.80	1.56					
6/18/03	2:15:00	2.70	1.50					
6/18/03	2:30:00	2.70	1.50					
6/18/03	2:45:00	2.70	1.50					
6/18/03	3:00:00	2.70	1.50					
6/18/03	3:15:00	2.80	1.56					
6/18/03	3:30:00	2.70	1.50					
6/18/03	3:45:00	2.60	1.44					
6/18/03	4:00:00	2.60	1.44					
6/18/03	4:15:00	2.60	1.44					
6/18/03	4:30:00	2.60	1.44					
6/18/03	4:45:00	2.50	1.39					
6/18/03	5:00:00	2.50	1.39					
6/18/03	5:15:00	2.50	1.39					
6/18/03	5:30:00	2.50	1.39					
6/18/03	5:45:00	2.40	1.33					
6/18/03	6:00:00	2.40	1.33					
6/18/03	6:15:00	2.30	1.28					
6/18/03	6:30:00	2.30	1.28					
6/18/03	6:45:00	2.40	1.33					
6/18/03	7:00:00	2.30	1.28					
6/18/03	7:15:00	2.30	1.28					
6/18/03	7:30:00	2.30	1.28					
6/18/03	7:45:00	2.30	1.28					
6/18/03	8:00:00	2.40	1.33					
6/18/03	8:15:00	2.30	1.28					
6/18/03	8:30:00	2.30	1.28					
6/18/03	8:45:00	2.40	1.33					
6/18/03	9:00:00	2.50	1.39					
6/18/03	9:15:00	2.60	1.44					
6/18/03	9:30:00	2.50	1.39					
6/18/03	9:45:00	2.70	1.50					
6/18/03	10:00:00	2.60	1.44					

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
6/18/03	10:15:00	2.40	1.33					
6/18/03	10:30:00	2.40	1.33					
6/18/03	10:45:00	2.30	1.28					
6/18/03	11:00:00	2.70	1.50					
6/18/03	11:15:00	2.40	1.33					
6/18/03	11:30:00	2.00	1.11					
6/18/03	11:45:00	1.80	1.00					
6/18/03	12:00:00	1.80	1.00					
6/18/03	12:15:00	2.20	1.22					
6/18/03	12:30:00	2.10	1.17					
6/18/03	12:45:00	1.80	1.00					
6/18/03	13:00:00	2.10	1.17					
6/18/03	13:15:00	2.40	1.33					
6/18/03	13:30:00	2.30	1.28					
6/18/03	13:45:00	2.20	1.22					
6/18/03	14:00:00	2.50	1.39					
6/18/03	14:15:00	2.90	1.61					
6/18/03	14:30:00	2.50	1.39					
6/18/03	14:45:00	2.50	1.39					
6/18/03	15:00:00	2.90	1.61					
6/18/03	15:15:00	2.70	1.50					
6/18/03	15:30:00	2.20	1.22					
6/18/03	15:45:00	3.00	1.67					
6/18/03	16:00:00	3.10	1.72					
6/18/03	16:15:00	3.20	1.78					
6/18/03	16:30:00	3.10	1.72					
6/18/03	16:45:00	3.00	1.67					
6/18/03	17:00:00	2.90	1.61					
6/18/03	17:15:00	2.80	1.56					
6/18/03	17:30:00	2.90	1.61					
6/18/03	17:45:00	3.10	1.72					
6/18/03	18:00:00	3.40	1.89					
6/18/03	18:15:00	3.40	1.89					
6/18/03	18:30:00	3.20	1.78					
6/18/03	18:45:00	3.50	1.94					
6/18/03	19:00:00	4.00	2.22					
6/18/03	19:15:00	4.00	2.22					
6/18/03	19:30:00	4.10	2.28					
6/18/03	19:45:00	4.20	2.33					
6/18/03	20:00:00	4.10	2.28					
6/18/03	20:15:00	4.00	2.22					
6/18/03	20:30:00	4.00	2.22					
6/18/03	20:45:00	3.80	2.11					

Table H1.5.
Survey Station BBf-5

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
6/18/03	21:00:00	3.80	2.11					
6/18/03	21:15:00	3.60	2.00					
6/18/03	21:30:00	3.50	1.94					
6/18/03	21:45:00	3.50	1.94					
6/18/03	22:00:00	3.50	1.94					
6/18/03	22:15:00	3.50	1.94					
6/18/03	22:30:00	3.40	1.89					
6/18/03	22:45:00	3.40	1.89					
6/18/03	23:00:00	3.40	1.89					
6/18/03	23:15:00	3.40	1.89					
6/18/03	23:30:00	3.30	1.83					
6/18/03	23:45:00	3.30	1.83					
6/19/03	0:00:00	3.30	1.83					
	MIN =	1.80						

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Table H1.5.
Survey Station BBf-5

Table H1.6.Continuous Data Used for GB-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
6/18/03	0:00:00	1.90	1.12					
6/18/03	0:15:00	1.80	1.06					
6/18/03	0:30:00	1.80	1.06					
6/18/03	0:45:00	1.80	1.06					
6/18/03	1:00:00	1.70	1.00					
6/18/03	1:15:00	1.70	1.00					
6/18/03	1:30:00	1.70	1.00					
6/18/03	1:45:00	1.70	1.00					
6/18/03	2:00:00	1.70	1.00					
6/18/03	2:15:00	1.70	1.00					
6/18/03	2:30:00	1.70	1.00					
6/18/03	2:45:00	1.70	1.00					
6/18/03	3:00:00	1.70	1.00					
6/18/03	3:15:00	1.70	1.00					
6/18/03	3:30:00	1.80	1.06					
6/18/03	3:45:00	1.80	1.06					
6/18/03	4:00:00	1.80	1.06					
6/18/03	4:15:00	1.80	1.06					
6/18/03	4:30:00	1.90	1.12					
6/18/03	4:45:00	1.90	1.12					
6/18/03	5:00:00	1.90	1.12					
6/18/03	5:15:00	1.90	1.12					
6/18/03	5:30:00	2.00	1.18					
6/18/03	5:45:00	2.00	1.18					
6/18/03	6:00:00	2.00	1.18					
6/18/03	6:15:00	2.00	1.18					
6/18/03	6:30:00	2.00	1.18					
6/18/03	6:45:00	2.00	1.18					
6/18/03	7:00:00	2.00	1.18					
6/18/03	7:15:00	2.00	1.18					
6/18/03	7:30:00	2.10	1.24					
6/18/03	7:45:00	2.10	1.24					
6/18/03	8:00:00	2.10	1.24					
6/18/03	8:15:00	2.10	1.24					
6/18/03	8:30:00	2.10	1.24					
6/18/03	8:45:00	2.10	1.24					
6/18/03	9:00:00	2.20	1.29					
6/18/03	9:15:00	2.20	1.29					
6/18/03	9:30:00	2.20	1.29					
6/18/03	9:45:00	2.30	1.35					
6/18/03	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
6/18/03	10:15:00	2.40	1.41	GB-2	6/18/03	10:20	1.96	1.39
6/18/03	10:30:00	2.40	1.41					
6/18/03	10:45:00	2.40	1.41					
6/18/03	11:00:00	2.50	1.47					
6/18/03	11:15:00	2.60	1.53					
6/18/03	11:30:00	2.60	1.53					
6/18/03	11:45:00	2.70	1.59					
6/18/03	12:00:00	2.70	1.59					
6/18/03	12:15:00	2.70	1.59					
6/18/03	12:30:00	2.80	1.65					
6/18/03	12:45:00	2.80	1.65					
6/18/03	13:00:00	2.80	1.65					
6/18/03	13:15:00	2.90	1.71					
6/18/03	13:30:00	2.90	1.71					
6/18/03	13:45:00	3.00	1.76					
6/18/03	14:00:00	3.00	1.76					
6/18/03	14:15:00	3.00	1.76					
6/18/03	14:30:00	3.00	1.76					
6/18/03	14:45:00	3.00	1.76					
6/18/03	15:00:00	3.00	1.76					
6/18/03	15:15:00	3.10	1.82					
6/18/03	15:30:00	3.10	1.82					
6/18/03	15:45:00	3.10	1.82					
6/18/03	16:00:00	3.10	1.82					
6/18/03	16:15:00	3.10	1.82					
6/18/03	16:30:00	3.10	1.82					
6/18/03	16:45:00	3.10	1.82					
6/18/03	17:00:00	3.10	1.82					
6/18/03	17:15:00	3.10	1.82					
6/18/03	17:30:00	3.00	1.76					
6/18/03	17:45:00	3.00	1.76					
6/18/03	18:00:00	2.90	1.71					
6/18/03	18:15:00	2.90	1.71					
6/18/03	18:30:00	2.90	1.71					
6/18/03	18:45:00	2.80	1.65					
6/18/03	19:00:00	2.80	1.65					
6/18/03	19:15:00	2.80	1.65					
6/18/03	19:30:00	2.70	1.59					
6/18/03	19:45:00	2.70	1.59					
6/18/03	20:00:00	2.70	1.59					
6/18/03	20:15:00	2.60	1.53					
6/18/03	20:30:00	2.60	1.53					
6/18/03	20:45:00	2.60	1.53					

Table H1.6.
Survey Station GB-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
6/18/03	21:00:00	2.50	1.47					
6/18/03	21:15:00	2.50	1.47					
6/18/03	21:30:00	2.50	1.47					
6/18/03	21:45:00	2.40	1.41					
6/18/03	22:00:00	2.40	1.41					
6/18/03	22:15:00	2.40	1.41					
6/18/03	22:30:00	2.30	1.35					
6/18/03	22:45:00	2.30	1.35					
6/18/03	23:00:00	2.30	1.35					
6/18/03	23:15:00	2.30	1.35					
6/18/03	23:30:00	2.30	1.35					
6/18/03	23:45:00	2.20	1.29					
6/19/03	0:00:00	2.20	1.29					
	MIN =	1.70						

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Table H1.6.
Survey Station GB-1

Table H1.7.Continuous Data Used for GB-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
6/18/03	0:00:00	2.10	1.62					
6/18/03	0:15:00	2.10	1.62					
6/18/03	0:30:00	2.10	1.62					
6/18/03	0:45:00	2.10	1.62					
6/18/03	1:00:00	2.10	1.62					
6/18/03	1:15:00	2.10	1.62					
6/18/03	1:30:00	2.10	1.62					
6/18/03	1:45:00	2.10	1.62					
6/18/03	2:00:00	2.10	1.62					
6/18/03	2:15:00	2.10	1.62					
6/18/03	2:30:00	2.10	1.62					
6/18/03	2:45:00	2.10	1.62					
6/18/03	3:00:00	2.10	1.62					
6/18/03	3:15:00	2.10	1.62					
6/18/03	3:30:00	2.10	1.62					
6/18/03	3:45:00	2.10	1.62					
6/18/03	4:00:00	2.10	1.62					
6/18/03	4:15:00	2.10	1.62					
6/18/03	4:30:00	2.10	1.62					
6/18/03	4:45:00	2.00	1.54					
6/18/03	5:00:00	2.00	1.54					
6/18/03	5:15:00	2.00	1.54					
6/18/03	5:30:00	2.00	1.54					
6/18/03	5:45:00	2.00	1.54					
6/18/03	6:00:00	2.00	1.54					
6/18/03	6:15:00	2.00	1.54					
6/18/03	6:30:00	2.00	1.54					
6/18/03	6:45:00	1.90	1.46					
6/18/03	7:00:00	1.90	1.46					
6/18/03	7:15:00	1.90	1.46					
6/18/03	7:30:00	1.90	1.46					
6/18/03	7:45:00	1.90	1.46					
6/18/03	8:00:00	1.90	1.46					
6/18/03	8:15:00	1.80	1.38					
6/18/03	8:30:00	1.80	1.38					
6/18/03	8:45:00	1.80	1.38					
6/18/03	9:00:00	1.80	1.38					
6/18/03	9:15:00	1.80	1.38					
6/18/03	9:30:00	1.70	1.31					
6/18/03	9:45:00	1.70	1.31					
6/18/03	10:00:00	1.70	1.31					

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
6/18/03	10:15:00	1.50	1.15					
6/18/03	10:30:00	1.40	1.08					
6/18/03	10:45:00	1.30	1.00	GB-3	6/18/03	10:50	2.43	2.43
6/18/03	11:00:00	1.40	1.08					
6/18/03	11:15:00	1.30	1.00	GB-5	6/1/8/03	11:20	1.96	1.96
6/18/03	11:30:00	1.30	1.00					
6/18/03	11:45:00	1.60	1.23					
6/18/03	12:00:00	1.70	1.31					
6/18/03	12:15:00	1.70	1.31					
6/18/03	12:30:00	1.70	1.31					
6/18/03	12:45:00	1.80	1.38					
6/18/03	13:00:00	2.00	1.54					
6/18/03	13:15:00	2.10	1.62					
6/18/03	13:30:00	2.00	1.54					
6/18/03	13:45:00	2.00	1.54					
6/18/03	14:00:00	2.00	1.54					
6/18/03	14:15:00	2.30	1.77					
6/18/03	14:30:00	2.30	1.77					
6/18/03	14:45:00	2.50	1.92					
6/18/03	15:00:00	2.60	2.00					
6/18/03	15:15:00	2.30	1.77					
6/18/03	15:30:00	2.60	2.00					
6/18/03	15:45:00	2.60	2.00					
6/18/03	16:00:00	2.40	1.85					
6/18/03	16:15:00	2.70	2.08					
6/18/03	16:30:00	2.60	2.00					
6/18/03	16:45:00	2.80	2.15					
6/18/03	17:00:00	2.80	2.15					
6/18/03	17:15:00	2.60	2.00					
6/18/03	17:30:00	2.70	2.08					
6/18/03	17:45:00	2.60	2.00					
6/18/03	18:00:00	2.60	2.00					
6/18/03	18:15:00	2.50	1.92					
6/18/03	18:30:00	2.60	2.00					
6/18/03	18:45:00	2.50	1.92					
6/18/03	19:00:00	2.40	1.85					
6/18/03	19:15:00	2.40	1.85					
6/18/03	19:30:00	2.30	1.77					
6/18/03	19:45:00	2.40	1.85					
6/18/03	20:00:00	2.30	1.77					
6/18/03	20:15:00	2.40	1.85					
6/18/03	20:30:00	2.30	1.77					
6/18/03	20:45:00	2.30	1.77					

Table H1.7.
Survey Station GB-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
6/18/03	21:00:00	2.20	1.69					
6/18/03	21:15:00	2.20	1.69					
6/18/03	21:30:00	2.30	1.77					
6/18/03	21:45:00	2.30	1.77					
6/18/03	22:00:00	2.40	1.85					
6/18/03	22:15:00	2.40	1.85					
6/18/03	22:30:00	2.40	1.85					
6/18/03	22:45:00	2.40	1.85					
6/18/03	23:00:00	2.40	1.85					
6/18/03	23:15:00	2.40	1.85					
6/18/03	23:30:00	2.40	1.85					
6/18/03	23:45:00	2.40	1.85					
6/19/03	0:00:00	2.30	1.77					
	MIN =	1.30						

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Table H1.7.
Survey Station GB-4

Table H1.8.Continuous Data Used for GB-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
6/18/03	0:00:00	2.10	1.62					
6/18/03	0:15:00	2.10	1.62					
6/18/03	0:30:00	2.10	1.62					
6/18/03	0:45:00	2.10	1.62					
6/18/03	1:00:00	2.10	1.62					
6/18/03	1:15:00	2.10	1.62					
6/18/03	1:30:00	2.10	1.62					
6/18/03	1:45:00	2.10	1.62					
6/18/03	2:00:00	2.10	1.62					
6/18/03	2:15:00	2.10	1.62					
6/18/03	2:30:00	2.10	1.62					
6/18/03	2:45:00	2.10	1.62					
6/18/03	3:00:00	2.10	1.62					
6/18/03	3:15:00	2.10	1.62					
6/18/03	3:30:00	2.10	1.62					
6/18/03	3:45:00	2.10	1.62					
6/18/03	4:00:00	2.10	1.62					
6/18/03	4:15:00	2.10	1.62					
6/18/03	4:30:00	2.10	1.62					
6/18/03	4:45:00	2.00	1.54					
6/18/03	5:00:00	2.00	1.54					
6/18/03	5:15:00	2.00	1.54					
6/18/03	5:30:00	2.00	1.54					
6/18/03	5:45:00	2.00	1.54					
6/18/03	6:00:00	2.00	1.54					
6/18/03	6:15:00	2.00	1.54					
6/18/03	6:30:00	2.00	1.54					
6/18/03	6:45:00	1.90	1.46					
6/18/03	7:00:00	1.90	1.46					
6/18/03	7:15:00	1.90	1.46					
6/18/03	7:30:00	1.90	1.46					
6/18/03	7:45:00	1.90	1.46					
6/18/03	8:00:00	1.90	1.46					
6/18/03	8:15:00	1.80	1.38					
6/18/03	8:30:00	1.80	1.38					
6/18/03	8:45:00	1.80	1.38					
6/18/03	9:00:00	1.80	1.38					
6/18/03	9:15:00	1.80	1.38					
6/18/03	9:30:00	1.70	1.31					
6/18/03	9:45:00	1.70	1.31					
6/18/03	10:00:00	1.70	1.31					

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
6/18/03	10:15:00	1.50	1.15					
6/18/03	10:30:00	1.40	1.08					
6/18/03	10:45:00	1.30	1.00					
6/18/03	11:00:00	1.40	1.08					
6/18/03	11:15:00	1.30	1.00					
6/18/03	11:30:00	1.30	1.00					
6/18/03	11:45:00	1.60	1.23					
6/18/03	12:00:00	1.70	1.31					
6/18/03	12:15:00	1.70	1.31					
6/18/03	12:30:00	1.70	1.31	GB-7	6/18/03	12:30	2.95	2.26
6/18/03	12:45:00	1.80	1.38					
6/18/03	13:00:00	2.00	1.54					
6/18/03	13:15:00	2.10	1.62					
6/18/03	13:30:00	2.00	1.54					
6/18/03	13:45:00	2.00	1.54					
6/18/03	14:00:00	2.00	1.54					
6/18/03	14:15:00	2.30	1.77					
6/18/03	14:30:00	2.30	1.77					
6/18/03	14:45:00	2.50	1.92					
6/18/03	15:00:00	2.60	2.00					
6/18/03	15:15:00	2.30	1.77					
6/18/03	15:30:00	2.60	2.00					
6/18/03	15:45:00	2.60	2.00					
6/18/03	16:00:00	2.40	1.85					
6/18/03	16:15:00	2.70	2.08					
6/18/03	16:30:00	2.60	2.00					
6/18/03	16:45:00	2.80	2.15					
6/18/03	17:00:00	2.80	2.15					
6/18/03	17:15:00	2.60	2.00					
6/18/03	17:30:00	2.70	2.08					
6/18/03	17:45:00	2.60	2.00					
6/18/03	18:00:00	2.60	2.00					
6/18/03	18:15:00	2.50	1.92					
6/18/03	18:30:00	2.60	2.00					
6/18/03	18:45:00	2.50	1.92					
6/18/03	19:00:00	2.40	1.85					
6/18/03	19:15:00	2.40	1.85					
6/18/03	19:30:00	2.30	1.77					
6/18/03	19:45:00	2.40	1.85					
6/18/03	20:00:00	2.30	1.77					
6/18/03	20:15:00	2.40	1.85					
6/18/03	20:30:00	2.30	1.77					
6/18/03	20:45:00	2.30	1.77					

Table H1.8.
Survey Station GB-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
6/18/03	21:00:00	2.20	1.69					
6/18/03	21:15:00	2.20	1.69					
6/18/03	21:30:00	2.30	1.77					
6/18/03	21:45:00	2.30	1.77					
6/18/03	22:00:00	2.40	1.85					
6/18/03	22:15:00	2.40	1.85					
6/18/03	22:30:00	2.40	1.85					
6/18/03	22:45:00	2.40	1.85					
6/18/03	23:00:00	2.40	1.85					
6/18/03	23:15:00	2.40	1.85					
6/18/03	23:30:00	2.40	1.85					
6/18/03	23:45:00	2.40	1.85					
6/19/03	0:00:00	2.30	1.77					
	MIN =	1.30						

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Table H1.8.
Survey Station GB-6

Table H1.9.Continuous Data Used for HC-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
6/18/03	0:00:00	2.10	1.62					
6/18/03	0:15:00	2.10	1.62					
6/18/03	0:30:00	2.10	1.62					
6/18/03	0:45:00	2.10	1.62					
6/18/03	1:00:00	2.10	1.62					
6/18/03	1:15:00	2.10	1.62					
6/18/03	1:30:00	2.10	1.62					
6/18/03	1:45:00	2.10	1.62					
6/18/03	2:00:00	2.10	1.62					
6/18/03	2:15:00	2.10	1.62					
6/18/03	2:30:00	2.10	1.62					
6/18/03	2:45:00	2.10	1.62					
6/18/03	3:00:00	2.10	1.62					
6/18/03	3:15:00	2.10	1.62					
6/18/03	3:30:00	2.10	1.62					
6/18/03	3:45:00	2.10	1.62					
6/18/03	4:00:00	2.10	1.62					
6/18/03	4:15:00	2.10	1.62					
6/18/03	4:30:00	2.10	1.62					
6/18/03	4:45:00	2.00	1.54					
6/18/03	5:00:00	2.00	1.54					
6/18/03	5:15:00	2.00	1.54					
6/18/03	5:30:00	2.00	1.54					
6/18/03	5:45:00	2.00	1.54					
6/18/03	6:00:00	2.00	1.54					
6/18/03	6:15:00	2.00	1.54					
6/18/03	6:30:00	2.00	1.54					
6/18/03	6:45:00	1.90	1.46					
6/18/03	7:00:00	1.90	1.46					
6/18/03	7:15:00	1.90	1.46					
6/18/03	7:30:00	1.90	1.46					
6/18/03	7:45:00	1.90	1.46					
6/18/03	8:00:00	1.90	1.46					
6/18/03	8:15:00	1.80	1.38					
6/18/03	8:30:00	1.80	1.38					
6/18/03	8:45:00	1.80	1.38					
6/18/03	9:00:00	1.80	1.38					
6/18/03	9:15:00	1.80	1.38					
6/18/03	9:30:00	1.70	1.31					
6/18/03	9:45:00	1.70	1.31					
6/18/03	10:00:00	1.70	1.31					

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
6/18/03	10:15:00	1.50	1.15	HC-3	6/18/03	10:10	2.77	2.40
6/18/03	10:30:00	1.40	1.08					
6/18/03	10:45:00	1.30	1.00	HC-1	6/18/03	10:40	1.82	1.82
6/18/03	11:00:00	1.40	1.08					
6/18/03	11:15:00	1.30	1.00					
6/18/03	11:30:00	1.30	1.00					
6/18/03	11:45:00	1.60	1.23					
6/18/03	12:00:00	1.70	1.31					
6/18/03	12:15:00	1.70	1.31					
6/18/03	12:30:00	1.70	1.31					
6/18/03	12:45:00	1.80	1.38					
6/18/03	13:00:00	2.00	1.54					
6/18/03	13:15:00	2.10	1.62					
6/18/03	13:30:00	2.00	1.54					
6/18/03	13:45:00	2.00	1.54					
6/18/03	14:00:00	2.00	1.54					
6/18/03	14:15:00	2.30	1.77					
6/18/03	14:30:00	2.30	1.77					
6/18/03	14:45:00	2.50	1.92					
6/18/03	15:00:00	2.60	2.00					
6/18/03	15:15:00	2.30	1.77					
6/18/03	15:30:00	2.60	2.00					
6/18/03	15:45:00	2.60	2.00					
6/18/03	16:00:00	2.40	1.85					
6/18/03	16:15:00	2.70	2.08					
6/18/03	16:30:00	2.60	2.00					
6/18/03	16:45:00	2.80	2.15					
6/18/03	17:00:00	2.80	2.15					
6/18/03	17:15:00	2.60	2.00					
6/18/03	17:30:00	2.70	2.08					
6/18/03	17:45:00	2.60	2.00					
6/18/03	18:00:00	2.60	2.00					
6/18/03	18:15:00	2.50	1.92					
6/18/03	18:30:00	2.60	2.00					
6/18/03	18:45:00	2.50	1.92					
6/18/03	19:00:00	2.40	1.85					
6/18/03	19:15:00	2.40	1.85					
6/18/03	19:30:00	2.30	1.77					
6/18/03	19:45:00	2.40	1.85					
6/18/03	20:00:00	2.30	1.77					
6/18/03	20:15:00	2.40	1.85					
6/18/03	20:30:00	2.30	1.77					
6/18/03	20:45:00	2.30	1.77					

Table H1.9.
Survey Station HC-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
6/18/03	21:00:00	2.20	1.69					
6/18/03	21:15:00	2.20	1.69					
6/18/03	21:30:00	2.30	1.77					
6/18/03	21:45:00	2.30	1.77					
6/18/03	22:00:00	2.40	1.85					
6/18/03	22:15:00	2.40	1.85					
6/18/03	22:30:00	2.40	1.85					
6/18/03	22:45:00	2.40	1.85					
6/18/03	23:00:00	2.40	1.85					
6/18/03	23:15:00	2.40	1.85					
6/18/03	23:30:00	2.40	1.85					
6/18/03	23:45:00	2.40	1.85					
6/19/03	0:00:00	2.30	1.77					
	MIN =	1.30						

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Table H1.9.
Survey Station HC-2

Table H1.10.Continuous Data Used for BO-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
6/18/03	0:00:00	2.40	1.85					
6/18/03	0:15:00	2.40	1.85					
6/18/03	0:30:00	2.30	1.77					
6/18/03	0:45:00	2.30	1.77					
6/18/03	1:00:00	2.20	1.69					
6/18/03	1:15:00	2.20	1.69					
6/18/03	1:30:00	2.20	1.69					
6/18/03	1:45:00	2.20	1.69					
6/18/03	2:00:00	2.10	1.62					
6/18/03	2:15:00	2.10	1.62					
6/18/03	2:30:00	2.10	1.62					
6/18/03	2:45:00	2.00	1.54					
6/18/03	3:00:00	2.00	1.54					
6/18/03	3:15:00	1.90	1.46					
6/18/03	3:30:00	1.90	1.46					
6/18/03	3:45:00	1.90	1.46					
6/18/03	4:00:00	1.90	1.46					
6/18/03	4:15:00	1.80	1.38					
6/18/03	4:30:00	1.80	1.38					
6/18/03	4:45:00	1.70	1.31					
6/18/03	5:00:00	1.70	1.31					
6/18/03	5:15:00	1.70	1.31					
6/18/03	5:30:00	1.70	1.31					
6/18/03	5:45:00	1.70	1.31					
6/18/03	6:00:00	1.60	1.23					
6/18/03	6:15:00	1.60	1.23					
6/18/03	6:30:00	1.60	1.23					
6/18/03	6:45:00	1.60	1.23					
6/18/03	7:00:00	1.50	1.15					
6/18/03	7:15:00	1.50	1.15					
6/18/03	7:30:00	1.50	1.15					
6/18/03	7:45:00	1.60	1.23					
6/18/03	8:00:00	1.50	1.15					
6/18/03	8:15:00	1.50	1.15					
6/18/03	8:30:00	1.40	1.08					
6/18/03	8:45:00	1.40	1.08					
6/18/03	9:00:00	1.40	1.08					
6/18/03	9:15:00	1.50	1.15					
6/18/03	9:30:00	1.50	1.15					
6/18/03	9:45:00	1.40	1.08					
6/18/03	10:00:00	1.40	1.08					

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
6/18/03	10:15:00	1.40	1.08					
6/18/03	10:30:00	1.40	1.08					
6/18/03	10:45:00	1.30	1.00					
6/18/03	11:00:00	1.30	1.00					
6/18/03	11:15:00	1.30	1.00					
6/18/03	11:30:00	1.30	1.00					
6/18/03	11:45:00	1.60	1.23					
6/18/03	12:00:00	1.40	1.08					
6/18/03	12:15:00	1.50	1.15					
6/18/03	12:30:00	1.60	1.23					
6/18/03	12:45:00	1.50	1.15					
6/18/03	13:00:00	1.40	1.08					
6/18/03	13:15:00	1.40	1.08					
6/18/03	13:30:00	1.70	1.31					
6/18/03	13:45:00	1.60	1.23					
6/18/03	14:00:00	1.90	1.46					
6/18/03	14:15:00	1.60	1.23					
6/18/03	14:30:00	1.50	1.15					
6/18/03	14:45:00	1.70	1.31					
6/18/03	15:00:00	1.80	1.38					
6/18/03	15:15:00	1.60	1.23					
6/18/03	15:30:00	1.90	1.46					
6/18/03	15:45:00	2.30	1.77					
6/18/03	16:00:00	1.60	1.23					
6/18/03	16:15:00	2.00	1.54					
6/18/03	16:30:00	1.70	1.31					
6/18/03	16:45:00	1.80	1.38					
6/18/03	17:00:00	2.20	1.69					
6/18/03	17:15:00	2.00	1.54					
6/18/03	17:30:00	2.10	1.62					
6/18/03	17:45:00	2.20	1.69					
6/18/03	18:00:00	2.10	1.62					
6/18/03	18:15:00	2.10	1.62					
6/18/03	18:30:00	2.10	1.62					
6/18/03	18:45:00	2.10	1.62					
6/18/03	19:00:00	2.10	1.62					
6/18/03	19:15:00	2.30	1.77					
6/18/03	19:30:00	2.10	1.62					
6/18/03	19:45:00	2.20	1.69					
6/18/03	20:00:00	2.70	2.08					
6/18/03	20:15:00	2.20	1.69					
6/18/03	20:30:00	2.50	1.92					
6/18/03	20:45:00	2.50	1.92					

Table H1.10.
Survey Station BO-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
6/18/03	21:00:00	2.60	2.00					
6/18/03	21:15:00	2.40	1.85					
6/18/03	21:30:00	2.40	1.85					
6/18/03	21:45:00	2.50	1.92					
6/18/03	22:00:00	2.40	1.85					
6/18/03	22:15:00	2.40	1.85					
6/18/03	22:30:00	2.40	1.85					
6/18/03	22:45:00	2.30	1.77					
6/18/03	23:00:00	2.30	1.77					
6/18/03	23:15:00	2.20	1.69					
6/18/03	23:30:00	2.20	1.69					
6/18/03	23:45:00	2.10	1.62					
6/19/03	0:00:00	2.10	1.62					
	MIN =	1.30						

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Table H1.10.
Survey Station BO-1

Table H1.11.Continuous Data Used for BoC-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
6/18/03	0:00:00	3.70	2.47					
6/18/03	0:15:00	3.50	2.33					
6/18/03	0:30:00	3.50	2.33					
6/18/03	0:45:00	3.40	2.27					
6/18/03	1:00:00	3.40	2.27					
6/18/03	1:15:00	3.30	2.20					
6/18/03	1:30:00	3.30	2.20					
6/18/03	1:45:00	3.30	2.20					
6/18/03	2:00:00	3.00	2.00					
6/18/03	2:15:00	3.10	2.07					
6/18/03	2:30:00	3.00	2.00					
6/18/03	2:45:00	3.00	2.00					
6/18/03	3:00:00	2.90	1.93					
6/18/03	3:15:00	2.90	1.93					
6/18/03	3:30:00	2.90	1.93					
6/18/03	3:45:00	2.80	1.87					
6/18/03	4:00:00	2.60	1.73					
6/18/03	4:15:00	2.60	1.73					
6/18/03	4:30:00	2.50	1.67					
6/18/03	4:45:00	2.50	1.67					
6/18/03	5:00:00	2.50	1.67					
6/18/03	5:15:00	2.40	1.60					
6/18/03	5:30:00	2.40	1.60					
6/18/03	5:45:00	2.30	1.53					
6/18/03	6:00:00	2.20	1.47					
6/18/03	6:15:00	2.20	1.47					
6/18/03	6:30:00	2.10	1.40					
6/18/03	6:45:00	2.00	1.33					
6/18/03	7:00:00	2.10	1.40					
6/18/03	7:15:00	1.80	1.20					
6/18/03	7:30:00	2.00	1.33					
6/18/03	7:45:00	1.90	1.27					
6/18/03	8:00:00	1.90	1.27					
6/18/03	8:15:00	1.90	1.27					
6/18/03	8:30:00	1.70	1.13					
6/18/03	8:45:00	1.60	1.07					
6/18/03	9:00:00	1.70	1.13					
6/18/03	9:15:00	1.60	1.07					
6/18/03	9:30:00	1.60	1.07					
6/18/03	9:45:00	1.50	1.00					
6/18/03	10:00:00	1.50	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
6/18/03	10:15:00	1.50	1.00					
6/18/03	10:30:00	1.60	1.07					
6/18/03	10:45:00	1.60	1.07					
6/18/03	11:00:00	1.60	1.07					
6/18/03	11:15:00	1.90	1.27					
6/18/03	11:30:00	1.50	1.00					
6/18/03	11:45:00	1.70	1.13					
6/18/03	12:00:00	1.90	1.27					
6/18/03	12:15:00	1.70	1.13					
6/18/03	12:30:00	1.90	1.27					
6/18/03	12:45:00	1.90	1.27					
6/18/03	13:00:00	1.90	1.27					
6/18/03	13:15:00	1.80	1.20					
6/18/03	13:30:00	1.90	1.27					
6/18/03	13:45:00	2.20	1.47					
6/18/03	14:00:00	1.80	1.20					
6/18/03	14:15:00	1.70	1.13					
6/18/03	14:30:00	2.10	1.40					
6/18/03	14:45:00	1.60	1.07					
6/18/03	15:00:00	2.10	1.40					
6/18/03	15:15:00	1.80	1.20					
6/18/03	15:30:00	1.90	1.27					
6/18/03	15:45:00	2.00	1.33					
6/18/03	16:00:00	1.80	1.20					
6/18/03	16:15:00	1.70	1.13					
6/18/03	16:30:00	2.00	1.33					
6/18/03	16:45:00	2.30	1.53					
6/18/03	17:00:00	1.80	1.20					
6/18/03	17:15:00	2.50	1.67					
6/18/03	17:30:00	2.30	1.53					
6/18/03	17:45:00	2.40	1.60					
6/18/03	18:00:00	2.50	1.67					
6/18/03	18:15:00	2.00	1.33					
6/18/03	18:30:00	2.00	1.33					
6/18/03	18:45:00	1.70	1.13					
6/18/03	19:00:00	2.80	1.87					
6/18/03	19:15:00	1.90	1.27					
6/18/03	19:30:00	2.40	1.60					
6/18/03	19:45:00	2.70	1.80					
6/18/03	20:00:00	2.40	1.60					
6/18/03	20:15:00	2.80	1.87					
6/18/03	20:30:00	2.20	1.47					
6/18/03	20:45:00	2.90	1.93					

Table H1.11.
Survey Station BoC-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
6/18/03	21:00:00	2.30	1.53					
6/18/03	21:15:00	3.10	2.07					
6/18/03	21:30:00	2.90	1.93					
6/18/03	21:45:00	2.50	1.67					
6/18/03	22:00:00	2.40	1.60					
6/18/03	22:15:00	2.30	1.53					
6/18/03	22:30:00	2.60	1.73					
6/18/03	22:45:00	2.70	1.80					
6/18/03	23:00:00	1.80	1.20					
6/18/03	23:15:00	2.10	1.40					
6/18/03	23:30:00	2.60	1.73					
6/18/03	23:45:00	2.30	1.53					
6/19/03	0:00:00	3.10	2.07					
	MIN =	1.50						

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Table H1.11.
Survey Station BoC-1

Table H1.12.Continuous Data Used for LPC-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
6/18/03	0:00:00	1.10	5.50					
6/18/03	0:15:00	1.00	5.00					
6/18/03	0:30:00	0.80	4.00					
6/18/03	0:45:00	0.90	4.50					
6/18/03	1:00:00	1.00	5.00					
6/18/03	1:15:00	1.00	5.00					
6/18/03	1:30:00	1.00	5.00					
6/18/03	1:45:00	1.10	5.50					
6/18/03	2:00:00	1.10	5.50					
6/18/03	2:15:00	1.10	5.50					
6/18/03	2:30:00	1.10	5.50					
6/18/03	2:45:00	1.00	5.00					
6/18/03	3:00:00	1.00	5.00					
6/18/03	3:15:00	1.00	5.00					
6/18/03	3:30:00	1.00	5.00					
6/18/03	3:45:00	1.00	5.00					
6/18/03	4:00:00	0.90	4.50					
6/18/03	4:15:00	0.80	4.00					
6/18/03	4:30:00	0.90	4.50					
6/18/03	4:45:00	0.90	4.50					
6/18/03	5:00:00	0.90	4.50					
6/18/03	5:15:00	0.80	4.00					
6/18/03	5:30:00	0.90	4.50					
6/18/03	5:45:00	0.80	4.00					
6/18/03	6:00:00	0.90	4.50					
6/18/03	6:15:00	0.90	4.50					
6/18/03	6:30:00	0.80	4.00					
6/18/03	6:45:00	0.80	4.00					
6/18/03	7:00:00	0.80	4.00					
6/18/03	7:15:00	0.80	4.00					
6/18/03	7:30:00	0.80	4.00					
6/18/03	7:45:00	0.80	4.00					
6/18/03	8:00:00	0.90	4.50					
6/18/03	8:15:00	0.90	4.50					
6/18/03	8:30:00	0.90	4.50					
6/18/03	8:45:00	0.90	4.50					
6/18/03	9:00:00	0.80	4.00					
6/18/03	9:15:00	0.90	4.50					
6/18/03	9:30:00	0.90	4.50					
6/18/03	9:45:00	0.90	4.50					
6/18/03	10:00:00	0.90	4.50					

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
6/18/03	10:15:00	0.90	4.50					
6/18/03	10:30:00	0.90	4.50					
6/18/03	10:45:00	0.90	4.50					
6/18/03	11:00:00	1.00	5.00					
6/18/03	11:15:00	1.00	5.00					
6/18/03	11:30:00	1.10	5.50					
6/18/03	11:45:00	1.20	6.00					
6/18/03	12:00:00	1.20	6.00					
6/18/03	12:15:00	1.10	5.50					
6/18/03	12:30:00	1.20	6.00					
6/18/03	12:45:00	1.10	5.50					
6/18/03	13:00:00	1.20	6.00					
6/18/03	13:15:00	0.90	4.50					
6/18/03	13:30:00	1.00	5.00					
6/18/03	13:45:00	1.00	5.00					
6/18/03	14:00:00	1.00	5.00					
6/18/03	14:15:00	1.00	5.00					
6/18/03	14:30:00	1.10	5.50					
6/18/03	14:45:00	1.00	5.00					
6/18/03	15:00:00	0.90	4.50					
6/18/03	15:15:00	0.90	4.50					
6/18/03	15:30:00	1.00	5.00					
6/18/03	15:45:00	0.90	4.50					
6/18/03	16:00:00	1.00	5.00					
6/18/03	16:15:00	0.90	4.50					
6/18/03	16:30:00	0.80	4.00					
6/18/03	16:45:00	0.80	4.00					
6/18/03	17:00:00	0.70	3.50					
6/18/03	17:15:00	0.60	3.00					
6/18/03	17:30:00	0.60	3.00					
6/18/03	17:45:00	0.60	3.00					
6/18/03	18:00:00	0.50	2.50					
6/18/03	18:15:00	0.40	2.00					
6/18/03	18:30:00	0.40	2.00					
6/18/03	18:45:00	0.40	2.00					
6/18/03	19:00:00	0.30	1.50					
6/18/03	19:15:00	0.30	1.50					
6/18/03	19:30:00	0.20	1.00					
6/18/03	19:45:00	0.20	1.00					
6/18/03	20:00:00	0.20	1.00					
6/18/03	20:15:00	0.20	1.00					
6/18/03	20:30:00	0.30	1.50					
6/18/03	20:45:00	0.20	1.00					

Table H1.12.
Survey Station LPC-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
6/18/03	21:00:00	0.20	1.00					
6/18/03	21:15:00	0.30	1.50					
6/18/03	21:30:00	0.20	1.00					
6/18/03	21:45:00	0.20	1.00					
6/18/03	22:00:00	0.20	1.00					
6/18/03	22:15:00	0.20	1.00					
6/18/03	22:30:00	0.30	1.50					
6/18/03	22:45:00	0.20	1.00					
6/18/03	23:00:00	0.20	1.00					
6/18/03	23:15:00	0.20	1.00					
6/18/03	23:30:00	0.20	1.00					
6/18/03	23:45:00	0.20	1.00					
6/19/03	0:00:00	0.20	1.00					
	MIN =	0.20						

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Table H1.12.
Survey Station LPC-1

Table H1.13.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
6/18/03	0:00:00	3.20	1.68					
6/18/03	0:15:00	3.20	1.68					
6/18/03	0:30:00	3.10	1.63					
6/18/03	0:45:00	3.10	1.63					
6/18/03	1:00:00	3.10	1.63					
6/18/03	1:15:00	3.30	1.74					
6/18/03	1:30:00	3.30	1.74					
6/18/03	1:45:00	3.50	1.84					
6/18/03	2:00:00	3.40	1.79					
6/18/03	2:15:00	3.60	1.89					
6/18/03	2:30:00	3.80	2.00					
6/18/03	2:45:00	3.80	2.00					
6/18/03	3:00:00	3.70	1.95					
6/18/03	3:15:00	3.40	1.79					
6/18/03	3:30:00	3.30	1.74					
6/18/03	3:45:00	2.90	1.53					
6/18/03	4:00:00	3.00	1.58					
6/18/03	4:15:00	3.10	1.63					
6/18/03	4:30:00	3.80	2.00					
6/18/03	4:45:00	4.30	2.26					
6/18/03	5:00:00	4.60	2.42					
6/18/03	5:15:00	3.90	2.05					
6/18/03	5:30:00	4.10	2.16					
6/18/03	5:45:00	3.90	2.05					
6/18/03	6:00:00	3.70	1.95					
6/18/03	6:15:00	3.80	2.00					
6/18/03	6:30:00	3.90	2.05					
6/18/03	6:45:00	3.90	2.05					
6/18/03	7:00:00	4.00	2.11					
6/18/03	7:15:00	3.80	2.00					
6/18/03	7:30:00	3.90	2.05					
6/18/03	7:45:00	4.10	2.16					
6/18/03	8:00:00	4.00	2.11					
6/18/03	8:15:00	3.80	2.00					
6/18/03	8:30:00	3.50	1.84					
6/18/03	8:45:00	2.40	1.26					
6/18/03	9:00:00	2.30	1.21					
6/18/03	9:15:00	2.40	1.26					
6/18/03	9:30:00	2.40	1.26					
6/18/03	9:45:00	2.50	1.32					
6/18/03	10:00:00	2.20	1.16					

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
6/18/03	10:15:00	2.70	1.42					
6/18/03	10:30:00	3.60	1.89					
6/18/03	10:45:00	3.70	1.95					
6/18/03	11:00:00	3.70	1.95					
6/18/03	11:15:00	3.70	1.95					
6/18/03	11:30:00	3.60	1.89					
6/18/03	11:45:00	3.50	1.84					
6/18/03	12:00:00	3.30	1.74					
6/18/03	12:15:00	2.70	1.42					
6/18/03	12:30:00	2.80	1.47					
6/18/03	12:45:00	3.10	1.63					
6/18/03	13:00:00	3.00	1.58					
6/18/03	13:15:00	3.20	1.68					
6/18/03	13:30:00	4.00	2.11					
6/18/03	13:45:00	3.20	1.68					
6/18/03	14:00:00	3.80	2.00					
6/18/03	14:15:00	3.50	1.84					
6/18/03	14:30:00	3.70	1.95					
6/18/03	14:45:00	4.40	2.32					
6/18/03	15:00:00	4.30	2.26					
6/18/03	15:15:00	4.10	2.16					
6/18/03	15:30:00	4.20	2.21					
6/18/03	15:45:00	4.60	2.42					
6/18/03	16:00:00	4.60	2.42					
6/18/03	16:15:00	4.60	2.42					
6/18/03	16:30:00	5.30	2.79					
6/18/03	16:45:00	4.60	2.42					
6/18/03	17:00:00	5.30	2.79					
6/18/03	17:15:00	5.10	2.68					
6/18/03	17:30:00	5.30	2.79					
6/18/03	17:45:00	6.10	3.21					
6/18/03	18:00:00	6.00	3.16					
6/18/03	18:15:00	5.00	2.63					
6/18/03	18:30:00	6.20	3.26					
6/18/03	18:45:00	5.80	3.05					
6/18/03	19:00:00	2.90	1.53					
6/18/03	19:15:00	1.90	1.00					
6/18/03	19:30:00	2.20	1.16					
6/18/03	19:45:00	2.30	1.21					
6/18/03	20:00:00	2.30	1.21					
6/18/03	20:15:00	2.80	1.47					
6/18/03	20:30:00	2.80	1.47					
6/18/03	20:45:00	3.00	1.58					

Table H1.13.
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
6/18/03	21:00:00	2.80	1.47					
6/18/03	21:15:00	2.70	1.42					
6/18/03	21:30:00	2.60	1.37					
6/18/03	21:45:00	2.70	1.42					
6/18/03	22:00:00	2.50	1.32					
6/18/03	22:15:00	2.70	1.42					
6/18/03	22:30:00	3.00	1.58					
6/18/03	22:45:00	3.50	1.84					
6/18/03	23:00:00	3.30	1.74					
6/18/03	23:15:00	2.90	1.53					
6/18/03	23:30:00	3.20	1.68					
6/18/03	23:45:00	3.10	1.63					
6/19/03	0:00:00	3.10	1.63					
	MIN =	1.90						

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Table H1.13.
Survey Station LDA-1

APPENDIX H2

Estimated Daily Average DO Calculations

Table H2.1.Continuous Data Used for TC-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
6/18/03	0:00:00	5.90	0.76					
6/18/03	0:15:00	5.70	0.74					
6/18/03	0:30:00	5.80	0.75					
6/18/03	0:45:00	5.90	0.76					
6/18/03	1:00:00	5.80	0.75					
6/18/03	1:15:00	5.70	0.74					
6/18/03	1:30:00	5.50	0.71					
6/18/03	1:45:00	5.50	0.71					
6/18/03	2:00:00	5.70	0.74					
6/18/03	2:15:00	5.70	0.74					
6/18/03	2:30:00	5.60	0.73					
6/18/03	2:45:00	5.50	0.71					
6/18/03	3:00:00	5.50	0.71					
6/18/03	3:15:00	5.40	0.70					
6/18/03	3:30:00	5.30	0.69					
6/18/03	3:45:00	5.30	0.69					
6/18/03	4:00:00	5.20	0.67					
6/18/03	4:15:00	5.30	0.69					
6/18/03	4:30:00	5.30	0.69					
6/18/03	4:45:00	5.20	0.67					
6/18/03	5:00:00	5.10	0.66					
6/18/03	5:15:00	5.30	0.69					
6/18/03	5:30:00	4.80	0.62					
6/18/03	5:45:00	4.70	0.61					
6/18/03	6:00:00	5.20	0.67					
6/18/03	6:15:00	5.30	0.69					
6/18/03	6:30:00	5.20	0.67					
6/18/03	6:45:00	5.10	0.66					
6/18/03	7:00:00	5.10	0.66					
6/18/03	7:15:00	5.10	0.66					
6/18/03	7:30:00	5.10	0.66					
6/18/03	7:45:00	5.20	0.67					
6/18/03	8:00:00	5.30	0.69					
6/18/03	8:15:00	5.10	0.66					
6/18/03	8:30:00	5.20	0.67					
6/18/03	8:45:00	5.10	0.66					
6/18/03	9:00:00	5.30	0.69					
6/18/03	9:15:00	5.40	0.70					
6/18/03	9:30:00	5.60	0.73					
6/18/03	9:45:00	5.60	0.73					
6/18/03	10:00:00	5.70	0.74					

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
6/18/03	10:15:00	5.60	0.73					
6/18/03	10:30:00	5.80	0.75					
6/18/03	10:45:00	5.90	0.76					
6/18/03	11:00:00	6.20	0.80	TC-2	6/18/03	11:00	3.22	4.01
6/18/03	11:15:00	6.40	0.83					
6/18/03	11:30:00	6.60	0.85					
6/18/03	11:45:00	7.00	0.91					
6/18/03	12:00:00	7.20	0.93					
6/18/03	12:15:00	7.40	0.96					
6/18/03	12:30:00	7.20	0.93					
6/18/03	12:45:00	7.60	0.98					
6/18/03	13:00:00	7.70	1.00					
6/18/03	13:15:00	8.10	1.05					
6/18/03	13:30:00	8.10	1.05					
6/18/03	13:45:00	8.30	1.07					
6/18/03	14:00:00	8.60	1.11					
6/18/03	14:15:00	9.10	1.18					
6/18/03	14:30:00	9.00	1.17					
6/18/03	14:45:00	9.10	1.18					
6/18/03	15:00:00	9.10	1.18					
6/18/03	15:15:00	9.20	1.19					
6/18/03	15:30:00	9.30	1.20					
6/18/03	15:45:00	9.70	1.26					
6/18/03	16:00:00	9.80	1.27					
6/18/03	16:15:00	10.00	1.30					
6/18/03	16:30:00	10.30	1.33					
6/18/03	16:45:00	10.60	1.37					
6/18/03	17:00:00	10.30	1.33					
6/18/03	17:15:00	11.20	1.45					
6/18/03	17:30:00	11.10	1.44					
6/18/03	17:45:00	11.20	1.45					
6/18/03	18:00:00	11.10	1.44					
6/18/03	18:15:00	11.30	1.46					
6/18/03	18:30:00	11.20	1.45					
6/18/03	18:45:00	11.20	1.45					
6/18/03	19:00:00	11.10	1.44					
6/18/03	19:15:00	11.20	1.45					
6/18/03	19:30:00	11.20	1.45					
6/18/03	19:45:00	11.30	1.46					
6/18/03	20:00:00	11.20	1.45					
6/18/03	20:15:00	11.00	1.42					
6/18/03	20:30:00	11.00	1.42					
6/18/03	20:45:00	10.80	1.40					

Table H2.1.
Survey Station TC-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
6/18/03	21:00:00	10.40	1.35					
6/18/03	21:15:00	10.70	1.39					
6/18/03	21:30:00	10.50	1.36					
6/18/03	21:45:00	10.30	1.33					
6/18/03	22:00:00	10.00	1.30					
6/18/03	22:15:00	10.40	1.35					
6/18/03	22:30:00	9.90	1.28					
6/18/03	22:45:00	10.10	1.31					
6/18/03	23:00:00	10.30	1.33					
6/18/03	23:15:00	10.20	1.32					
6/18/03	23:30:00	10.10	1.31					
6/18/03	23:45:00	9.80	1.27					
6/19/03	0:00:00	9.70	1.26					
	AVG =	7.72						

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Table H2.1.
Survey Station TC-1

Table H2.2.Continuous Data Used for LB-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
6/18/03	0:00:00	.						
6/18/03	0:15:00	.						
6/18/03	0:30:00	0.10	0.83					
6/18/03	0:45:00	0.10	0.83					
6/18/03	1:00:00	.						
6/18/03	1:15:00	.						
6/18/03	1:30:00	0.10	0.83					
6/18/03	1:45:00	0.10	0.83					
6/18/03	2:00:00	0.10	0.83					
6/18/03	2:15:00	0.10	0.83					
6/18/03	2:30:00	0.20	1.65					
6/18/03	2:45:00	0.20	1.65					
6/18/03	3:00:00	0.20	1.65					
6/18/03	3:15:00	0.10	0.83					
6/18/03	3:30:00	0.10	0.83					
6/18/03	3:45:00	0.10	0.83					
6/18/03	4:00:00	0.10	0.83					
6/18/03	4:15:00	0.10	0.83					
6/18/03	4:30:00	0.10	0.83					
6/18/03	4:45:00	0.10	0.83					
6/18/03	5:00:00	0.10	0.83					
6/18/03	5:15:00	0.10	0.83					
6/18/03	5:30:00	.						
6/18/03	5:45:00	.						
6/18/03	6:00:00	.						
6/18/03	6:15:00	0.10	0.83					
6/18/03	6:30:00	.						
6/18/03	6:45:00	0.10	0.83					
6/18/03	7:00:00	.						
6/18/03	7:15:00	.						
6/18/03	7:30:00	0.10	0.83					
6/18/03	7:45:00	0.10	0.83					
6/18/03	8:00:00	0.10	0.83					
6/18/03	8:15:00	0.10	0.83					
6/18/03	8:30:00	0.40	3.31					
6/18/03	8:45:00	0.10	0.83					
6/18/03	9:00:00	0.10	0.83					
6/18/03	9:15:00	0.10	0.83					
6/18/03	9:30:00	0.10	0.83					
6/18/03	9:45:00	0.20	1.65					
6/18/03	10:00:00	0.10	0.83					

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
6/18/03	10:15:00	0.10	0.83					
6/18/03	10:30:00	0.10	0.83					
6/18/03	10:45:00	0.10	0.83					
6/18/03	11:00:00	0.30	2.48					
6/18/03	11:15:00	0.20	1.65					
6/18/03	11:30:00	0.10	0.83					
6/18/03	11:45:00	0.10	0.83					
6/18/03	12:00:00	0.10	0.83					
6/18/03	12:15:00	0.10	0.83					
6/18/03	12:30:00	0.10	0.83					
6/18/03	12:45:00	0.10	0.83					
6/18/03	13:00:00	0.10	0.83					
6/18/03	13:15:00	0.10	0.83					
6/18/03	13:30:00	0.10	0.83					
6/18/03	13:45:00	0.10	0.83					
6/18/03	14:00:00	0.10	0.83					
6/18/03	14:15:00	0.10	0.83					
6/18/03	14:30:00	0.10	0.83					
6/18/03	14:45:00	0.10	0.83					
6/18/03	15:00:00	0.10	0.83					
6/18/03	15:15:00	0.10	0.83					
6/18/03	15:30:00	0.10	0.83					
6/18/03	15:45:00	.						
6/18/03	16:00:00	0.10	0.83					
6/18/03	16:15:00	.						
6/18/03	16:30:00	.						
6/18/03	16:45:00	.						
6/18/03	17:00:00	0.20	1.65					
6/18/03	17:15:00	0.10	0.83					
6/18/03	17:30:00	.						
6/18/03	17:45:00	0.10	0.83					
6/18/03	18:00:00	.						
6/18/03	18:15:00	0.30	2.48					
6/18/03	18:30:00	.						
6/18/03	18:45:00	.						
6/18/03	19:00:00	0.10	0.83					
6/18/03	19:15:00	.						
6/18/03	19:30:00	.						
6/18/03	19:45:00	0.10	0.83					
6/18/03	20:00:00	.						
6/18/03	20:15:00	.						
6/18/03	20:30:00	.						
6/18/03	20:45:00	.						

Table H2.2.
Survey Station LB-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
6/18/03	21:00:00	.						
6/18/03	21:15:00	.						
6/18/03	21:30:00	.						
6/18/03	21:45:00	.						
6/18/03	22:00:00	.						
6/18/03	22:15:00	.						
6/18/03	22:30:00	0.10	0.83					
6/18/03	22:45:00	.						
6/18/03	23:00:00	.						
6/18/03	23:15:00	.						
6/18/03	23:30:00	.						
6/18/03	23:45:00	0.10	0.83					
6/19/03	0:00:00	.						
	AVG =	0.12						

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Table H2.2.
Survey Station LB-1

Table H2.3.Continuous Data Used for BBf-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
6/18/03	0:00:00	3.10	0.90					
6/18/03	0:15:00	3.00	0.87					
6/18/03	0:30:00	3.00	0.87					
6/18/03	0:45:00	2.90	0.84					
6/18/03	1:00:00	2.90	0.84					
6/18/03	1:15:00	2.80	0.81					
6/18/03	1:30:00	2.80	0.81					
6/18/03	1:45:00	2.80	0.81					
6/18/03	2:00:00	2.80	0.81					
6/18/03	2:15:00	2.70	0.78					
6/18/03	2:30:00	2.70	0.78					
6/18/03	2:45:00	2.70	0.78					
6/18/03	3:00:00	2.60	0.75					
6/18/03	3:15:00	2.60	0.75					
6/18/03	3:30:00	2.60	0.75					
6/18/03	3:45:00	2.50	0.72					
6/18/03	4:00:00	2.40	0.70					
6/18/03	4:15:00	2.50	0.72					
6/18/03	4:30:00	2.40	0.70					
6/18/03	4:45:00	2.40	0.70					
6/18/03	5:00:00	2.40	0.70					
6/18/03	5:15:00	2.30	0.67					
6/18/03	5:30:00	2.30	0.67					
6/18/03	5:45:00	2.30	0.67					
6/18/03	6:00:00	2.30	0.67					
6/18/03	6:15:00	2.20	0.64					
6/18/03	6:30:00	2.20	0.64					
6/18/03	6:45:00	2.20	0.64					
6/18/03	7:00:00	2.20	0.64					
6/18/03	7:15:00	2.20	0.64					
6/18/03	7:30:00	2.10	0.61					
6/18/03	7:45:00	2.10	0.61					
6/18/03	8:00:00	2.10	0.61					
6/18/03	8:15:00	2.10	0.61					
6/18/03	8:30:00	2.10	0.61					
6/18/03	8:45:00	2.20	0.64					
6/18/03	9:00:00	2.20	0.64					
6/18/03	9:15:00	2.10	0.61					
6/18/03	9:30:00	2.10	0.61					
6/18/03	9:45:00	2.30	0.67					
6/18/03	10:00:00	2.30	0.67	BBf-2	6/18/03	9:55	2.67	4.01

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
6/18/03	10:15:00	2.80	0.81					
6/18/03	10:30:00	2.50	0.72					
6/18/03	10:45:00	2.40	0.70					
6/18/03	11:00:00	2.70	0.78					
6/18/03	11:15:00	2.60	0.75					
6/18/03	11:30:00	2.60	0.75					
6/18/03	11:45:00	3.10	0.90					
6/18/03	12:00:00	2.30	0.67					
6/18/03	12:15:00	3.10	0.90					
6/18/03	12:30:00	2.90	0.84					
6/18/03	12:45:00	3.30	0.96					
6/18/03	13:00:00	3.10	0.90					
6/18/03	13:15:00	3.80	1.10					
6/18/03	13:30:00	3.70	1.07					
6/18/03	13:45:00	3.60	1.04					
6/18/03	14:00:00	3.90	1.13					
6/18/03	14:15:00	4.50	1.30					
6/18/03	14:30:00	4.40	1.27					
6/18/03	14:45:00	4.10	1.19					
6/18/03	15:00:00	4.20	1.22					
6/18/03	15:15:00	5.00	1.45					
6/18/03	15:30:00	4.60	1.33					
6/18/03	15:45:00	4.20	1.22					
6/18/03	16:00:00	4.40	1.27					
6/18/03	16:15:00	4.40	1.27					
6/18/03	16:30:00	4.40	1.27					
6/18/03	16:45:00	3.90	1.13					
6/18/03	17:00:00	4.90	1.42					
6/18/03	17:15:00	4.40	1.27					
6/18/03	17:30:00	4.30	1.25					
6/18/03	17:45:00	4.30	1.25					
6/18/03	18:00:00	5.20	1.51					
6/18/03	18:15:00	5.10	1.48					
6/18/03	18:30:00	4.90	1.42					
6/18/03	18:45:00	5.50	1.59					
6/18/03	19:00:00	5.80	1.68					
6/18/03	19:15:00	5.40	1.56					
6/18/03	19:30:00	5.30	1.54					
6/18/03	19:45:00	5.00	1.45					
6/18/03	20:00:00	5.30	1.54					
6/18/03	20:15:00	5.40	1.56					
6/18/03	20:30:00	5.20	1.51					
6/18/03	20:45:00	5.00	1.45					

Table H2.3.
Survey Station BBf-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
6/18/03	21:00:00	5.00	1.45					
6/18/03	21:15:00	4.80	1.39					
6/18/03	21:30:00	4.60	1.33					
6/18/03	21:45:00	4.50	1.30					
6/18/03	22:00:00	4.40	1.27					
6/18/03	22:15:00	4.30	1.25					
6/18/03	22:30:00	4.40	1.27					
6/18/03	22:45:00	4.30	1.25					
6/18/03	23:00:00	4.20	1.22					
6/18/03	23:15:00	4.20	1.22					
6/18/03	23:30:00	4.10	1.19					
6/18/03	23:45:00	4.00	1.16					
6/19/03	0:00:00	4.10	1.19					
	AVG =	3.45						

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Table H2.3.
Survey Station BBf-1

Table H2.4.Continuous Data Used for BBf-3.

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
6/18/03	0:00:00	3.00	1.07					
6/18/03	0:15:00	3.00	1.07					
6/18/03	0:30:00	2.90	1.03					
6/18/03	0:45:00	2.90	1.03					
6/18/03	1:00:00	2.80	1.00					
6/18/03	1:15:00	2.90	1.03					
6/18/03	1:30:00	2.80	1.00					
6/18/03	1:45:00	2.80	1.00					
6/18/03	2:00:00	2.80	1.00					
6/18/03	2:15:00	2.80	1.00					
6/18/03	2:30:00	2.80	1.00					
6/18/03	2:45:00	2.70	0.96					
6/18/03	3:00:00	2.70	0.96					
6/18/03	3:15:00	2.60	0.93					
6/18/03	3:30:00	2.60	0.93					
6/18/03	3:45:00	2.60	0.93					
6/18/03	4:00:00	2.60	0.93					
6/18/03	4:15:00	2.50	0.89					
6/18/03	4:30:00	2.50	0.89					
6/18/03	4:45:00	2.50	0.89					
6/18/03	5:00:00	2.40	0.85					
6/18/03	5:15:00	2.50	0.89					
6/18/03	5:30:00	2.40	0.85					
6/18/03	5:45:00	2.40	0.85					
6/18/03	6:00:00	2.30	0.82					
6/18/03	6:15:00	2.30	0.82					
6/18/03	6:30:00	2.30	0.82					
6/18/03	6:45:00	2.30	0.82					
6/18/03	7:00:00	2.20	0.78					
6/18/03	7:15:00	2.20	0.78					
6/18/03	7:30:00	2.20	0.78					
6/18/03	7:45:00	2.10	0.75					
6/18/03	8:00:00	2.10	0.75					
6/18/03	8:15:00	2.20	0.78					
6/18/03	8:30:00	2.20	0.78					
6/18/03	8:45:00	2.20	0.78					
6/18/03	9:00:00	2.20	0.78					
6/18/03	9:15:00	2.20	0.78					
6/18/03	9:30:00	2.20	0.78	BBf-4	6/18/03	930	2.65	3.39
6/18/03	9:45:00	2.30	0.82					
6/18/03	10:00:00	2.20	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
6/18/03	10:15:00	2.20	0.78					
6/18/03	10:30:00	2.50	0.89					
6/18/03	10:45:00	2.10	0.75					
6/18/03	11:00:00	2.00	0.71					
6/18/03	11:15:00	2.00	0.71					
6/18/03	11:30:00	2.20	0.78					
6/18/03	11:45:00	2.10	0.75					
6/18/03	12:00:00	2.00	0.71					
6/18/03	12:15:00	2.10	0.75					
6/18/03	12:30:00	2.10	0.75					
6/18/03	12:45:00	2.30	0.82					
6/18/03	13:00:00	2.30	0.82					
6/18/03	13:15:00	2.50	0.89					
6/18/03	13:30:00	2.40	0.85					
6/18/03	13:45:00	2.50	0.89					
6/18/03	14:00:00	2.50	0.89					
6/18/03	14:15:00	2.40	0.85					
6/18/03	14:30:00	2.60	0.93					
6/18/03	14:45:00	2.60	0.93					
6/18/03	15:00:00	2.70	0.96					
6/18/03	15:15:00	2.60	0.93					
6/18/03	15:30:00	2.90	1.03					
6/18/03	15:45:00	2.60	0.93					
6/18/03	16:00:00	2.80	1.00					
6/18/03	16:15:00	2.60	0.93					
6/18/03	16:30:00	3.50	1.25					
6/18/03	16:45:00	2.50	0.89					
6/18/03	17:00:00	3.20	1.14					
6/18/03	17:15:00	2.90	1.03					
6/18/03	17:30:00	3.30	1.17					
6/18/03	17:45:00	3.20	1.14					
6/18/03	18:00:00	3.50	1.25					
6/18/03	18:15:00	3.20	1.14					
6/18/03	18:30:00	4.20	1.49					
6/18/03	18:45:00	3.10	1.10					
6/18/03	19:00:00	4.20	1.49					
6/18/03	19:15:00	4.20	1.49					
6/18/03	19:30:00	4.60	1.64					
6/18/03	19:45:00	4.40	1.57					
6/18/03	20:00:00	4.20	1.49					
6/18/03	20:15:00	4.10	1.46					
6/18/03	20:30:00	4.00	1.42					
6/18/03	20:45:00	3.90	1.39					

Table H2.4.
Survey Station BBf-3

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
6/18/03	21:00:00	3.90	1.39					
6/18/03	21:15:00	3.80	1.35					
6/18/03	21:30:00	3.70	1.32					
6/18/03	21:45:00	3.70	1.32					
6/18/03	22:00:00	3.60	1.28					
6/18/03	22:15:00	3.10	1.10					
6/18/03	22:30:00	3.20	1.14					
6/18/03	22:45:00	3.30	1.17					
6/18/03	23:00:00	3.40	1.21					
6/18/03	23:15:00	3.10	1.10					
6/18/03	23:30:00	3.40	1.21					
6/18/03	23:45:00	3.30	1.17					
6/19/03	0:00:00	3.10	1.10					
	AVG =	2.81						

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Table H2.4.
Survey Station BBf-3

Table H2.5.Continuous Data Used for BBf-5.

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
6/18/03	0:00:00	3.00	1.06					
6/18/03	0:15:00	3.00	1.06					
6/18/03	0:30:00	3.00	1.06					
6/18/03	0:45:00	2.90	1.02					
6/18/03	1:00:00	2.90	1.02					
6/18/03	1:15:00	2.70	0.95					
6/18/03	1:30:00	2.90	1.02					
6/18/03	1:45:00	2.80	0.99					
6/18/03	2:00:00	2.80	0.99					
6/18/03	2:15:00	2.70	0.95					
6/18/03	2:30:00	2.70	0.95					
6/18/03	2:45:00	2.70	0.95					
6/18/03	3:00:00	2.70	0.95					
6/18/03	3:15:00	2.80	0.99					
6/18/03	3:30:00	2.70	0.95					
6/18/03	3:45:00	2.60	0.92					
6/18/03	4:00:00	2.60	0.92					
6/18/03	4:15:00	2.60	0.92					
6/18/03	4:30:00	2.60	0.92					
6/18/03	4:45:00	2.50	0.88					
6/18/03	5:00:00	2.50	0.88					
6/18/03	5:15:00	2.50	0.88					
6/18/03	5:30:00	2.50	0.88					
6/18/03	5:45:00	2.40	0.85					
6/18/03	6:00:00	2.40	0.85					
6/18/03	6:15:00	2.30	0.81					
6/18/03	6:30:00	2.30	0.81					
6/18/03	6:45:00	2.40	0.85					
6/18/03	7:00:00	2.30	0.81					
6/18/03	7:15:00	2.30	0.81					
6/18/03	7:30:00	2.30	0.81					
6/18/03	7:45:00	2.30	0.81					
6/18/03	8:00:00	2.40	0.85					
6/18/03	8:15:00	2.30	0.81					
6/18/03	8:30:00	2.30	0.81					
6/18/03	8:45:00	2.40	0.85					
6/18/03	9:00:00	2.50	0.88					
6/18/03	9:15:00	2.60	0.92					
6/18/03	9:30:00	2.50	0.88					
6/18/03	9:45:00	2.70	0.95					
6/18/03	10:00:00	2.60	0.92					

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
6/18/03	10:15:00	2.40	0.85					
6/18/03	10:30:00	2.40	0.85					
6/18/03	10:45:00	2.30	0.81					
6/18/03	11:00:00	2.70	0.95					
6/18/03	11:15:00	2.40	0.85					
6/18/03	11:30:00	2.00	0.71					
6/18/03	11:45:00	1.80	0.64					
6/18/03	12:00:00	1.80	0.64					
6/18/03	12:15:00	2.20	0.78					
6/18/03	12:30:00	2.10	0.74					
6/18/03	12:45:00	1.80	0.64					
6/18/03	13:00:00	2.10	0.74					
6/18/03	13:15:00	2.40	0.85					
6/18/03	13:30:00	2.30	0.81					
6/18/03	13:45:00	2.20	0.78					
6/18/03	14:00:00	2.50	0.88					
6/18/03	14:15:00	2.90	1.02					
6/18/03	14:30:00	2.50	0.88					
6/18/03	14:45:00	2.50	0.88					
6/18/03	15:00:00	2.90	1.02					
6/18/03	15:15:00	2.70	0.95					
6/18/03	15:30:00	2.20	0.78					
6/18/03	15:45:00	3.00	1.06					
6/18/03	16:00:00	3.10	1.09					
6/18/03	16:15:00	3.20	1.13					
6/18/03	16:30:00	3.10	1.09					
6/18/03	16:45:00	3.00	1.06					
6/18/03	17:00:00	2.90	1.02					
6/18/03	17:15:00	2.80	0.99					
6/18/03	17:30:00	2.90	1.02					
6/18/03	17:45:00	3.10	1.09					
6/18/03	18:00:00	3.40	1.20					
6/18/03	18:15:00	3.40	1.20					
6/18/03	18:30:00	3.20	1.13					
6/18/03	18:45:00	3.50	1.24					
6/18/03	19:00:00	4.00	1.41					
6/18/03	19:15:00	4.00	1.41					
6/18/03	19:30:00	4.10	1.45					
6/18/03	19:45:00	4.20	1.48					
6/18/03	20:00:00	4.10	1.45					
6/18/03	20:15:00	4.00	1.41					
6/18/03	20:30:00	4.00	1.41					
6/18/03	20:45:00	3.80	1.34					

Table H2.5.
Survey Station BBf-5

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
6/18/03	21:00:00	3.80	1.34					
6/18/03	21:15:00	3.60	1.27					
6/18/03	21:30:00	3.50	1.24					
6/18/03	21:45:00	3.50	1.24					
6/18/03	22:00:00	3.50	1.24					
6/18/03	22:15:00	3.50	1.24					
6/18/03	22:30:00	3.40	1.20					
6/18/03	22:45:00	3.40	1.20					
6/18/03	23:00:00	3.40	1.20					
6/18/03	23:15:00	3.40	1.20					
6/18/03	23:30:00	3.30	1.16					
6/18/03	23:45:00	3.30	1.16					
6/19/03	0:00:00	3.30	1.16					
	AVG =	2.83						

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Table H2.5.
Survey Station BBf-5

Table H2.6.Continuous Data Used for GB-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
6/18/03	0:00:00	1.90	0.80					
6/18/03	0:15:00	1.80	0.75					
6/18/03	0:30:00	1.80	0.75					
6/18/03	0:45:00	1.80	0.75					
6/18/03	1:00:00	1.70	0.71					
6/18/03	1:15:00	1.70	0.71					
6/18/03	1:30:00	1.70	0.71					
6/18/03	1:45:00	1.70	0.71					
6/18/03	2:00:00	1.70	0.71					
6/18/03	2:15:00	1.70	0.71					
6/18/03	2:30:00	1.70	0.71					
6/18/03	2:45:00	1.70	0.71					
6/18/03	3:00:00	1.70	0.71					
6/18/03	3:15:00	1.70	0.71					
6/18/03	3:30:00	1.80	0.75					
6/18/03	3:45:00	1.80	0.75					
6/18/03	4:00:00	1.80	0.75					
6/18/03	4:15:00	1.80	0.75					
6/18/03	4:30:00	1.90	0.80					
6/18/03	4:45:00	1.90	0.80					
6/18/03	5:00:00	1.90	0.80					
6/18/03	5:15:00	1.90	0.80					
6/18/03	5:30:00	2.00	0.84					
6/18/03	5:45:00	2.00	0.84					
6/18/03	6:00:00	2.00	0.84					
6/18/03	6:15:00	2.00	0.84					
6/18/03	6:30:00	2.00	0.84					
6/18/03	6:45:00	2.00	0.84					
6/18/03	7:00:00	2.00	0.84					
6/18/03	7:15:00	2.00	0.84					
6/18/03	7:30:00	2.10	0.88					
6/18/03	7:45:00	2.10	0.88					
6/18/03	8:00:00	2.10	0.88					
6/18/03	8:15:00	2.10	0.88					
6/18/03	8:30:00	2.10	0.88					
6/18/03	8:45:00	2.10	0.88					
6/18/03	9:00:00	2.20	0.92					
6/18/03	9:15:00	2.20	0.92					
6/18/03	9:30:00	2.20	0.92					
6/18/03	9:45:00	2.30	0.96					
6/18/03	10:00:00	2.40	1.00					

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
6/18/03	10:15:00	2.40	1.00	GB-2	6/18/03	10:20	1.96	1.95
6/18/03	10:30:00	2.40	1.00					
6/18/03	10:45:00	2.40	1.00					
6/18/03	11:00:00	2.50	1.05					
6/18/03	11:15:00	2.60	1.09					
6/18/03	11:30:00	2.60	1.09					
6/18/03	11:45:00	2.70	1.13					
6/18/03	12:00:00	2.70	1.13					
6/18/03	12:15:00	2.70	1.13					
6/18/03	12:30:00	2.80	1.17					
6/18/03	12:45:00	2.80	1.17					
6/18/03	13:00:00	2.80	1.17					
6/18/03	13:15:00	2.90	1.21					
6/18/03	13:30:00	2.90	1.21					
6/18/03	13:45:00	3.00	1.26					
6/18/03	14:00:00	3.00	1.26					
6/18/03	14:15:00	3.00	1.26					
6/18/03	14:30:00	3.00	1.26					
6/18/03	14:45:00	3.00	1.26					
6/18/03	15:00:00	3.00	1.26					
6/18/03	15:15:00	3.10	1.30					
6/18/03	15:30:00	3.10	1.30					
6/18/03	15:45:00	3.10	1.30					
6/18/03	16:00:00	3.10	1.30					
6/18/03	16:15:00	3.10	1.30					
6/18/03	16:30:00	3.10	1.30					
6/18/03	16:45:00	3.10	1.30					
6/18/03	17:00:00	3.10	1.30					
6/18/03	17:15:00	3.10	1.30					
6/18/03	17:30:00	3.00	1.26					
6/18/03	17:45:00	3.00	1.26					
6/18/03	18:00:00	2.90	1.21					
6/18/03	18:15:00	2.90	1.21					
6/18/03	18:30:00	2.90	1.21					
6/18/03	18:45:00	2.80	1.17					
6/18/03	19:00:00	2.80	1.17					
6/18/03	19:15:00	2.80	1.17					
6/18/03	19:30:00	2.70	1.13					
6/18/03	19:45:00	2.70	1.13					
6/18/03	20:00:00	2.70	1.13					
6/18/03	20:15:00	2.60	1.09					
6/18/03	20:30:00	2.60	1.09					
6/18/03	20:45:00	2.60	1.09					

Table H2.6.
Survey Station GB-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
6/18/03	21:00:00	2.50	1.05					
6/18/03	21:15:00	2.50	1.05					
6/18/03	21:30:00	2.50	1.05					
6/18/03	21:45:00	2.40	1.00					
6/18/03	22:00:00	2.40	1.00					
6/18/03	22:15:00	2.40	1.00					
6/18/03	22:30:00	2.30	0.96					
6/18/03	22:45:00	2.30	0.96					
6/18/03	23:00:00	2.30	0.96					
6/18/03	23:15:00	2.30	0.96					
6/18/03	23:30:00	2.30	0.96					
6/18/03	23:45:00	2.20	0.92					
6/19/03	0:00:00	2.20	0.92					
	AVG =	2.39						

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Table H2.6.
Survey Station GB-1

Table H2.7.Continuous Data Used for GB-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
6/18/03	0:00:00	2.10	0.99					
6/18/03	0:15:00	2.10	0.99					
6/18/03	0:30:00	2.10	0.99					
6/18/03	0:45:00	2.10	0.99					
6/18/03	1:00:00	2.10	0.99					
6/18/03	1:15:00	2.10	0.99					
6/18/03	1:30:00	2.10	0.99					
6/18/03	1:45:00	2.10	0.99					
6/18/03	2:00:00	2.10	0.99					
6/18/03	2:15:00	2.10	0.99					
6/18/03	2:30:00	2.10	0.99					
6/18/03	2:45:00	2.10	0.99					
6/18/03	3:00:00	2.10	0.99					
6/18/03	3:15:00	2.10	0.99					
6/18/03	3:30:00	2.10	0.99					
6/18/03	3:45:00	2.10	0.99					
6/18/03	4:00:00	2.10	0.99					
6/18/03	4:15:00	2.10	0.99					
6/18/03	4:30:00	2.10	0.99					
6/18/03	4:45:00	2.00	0.94					
6/18/03	5:00:00	2.00	0.94					
6/18/03	5:15:00	2.00	0.94					
6/18/03	5:30:00	2.00	0.94					
6/18/03	5:45:00	2.00	0.94					
6/18/03	6:00:00	2.00	0.94					
6/18/03	6:15:00	2.00	0.94					
6/18/03	6:30:00	2.00	0.94					
6/18/03	6:45:00	1.90	0.89					
6/18/03	7:00:00	1.90	0.89					
6/18/03	7:15:00	1.90	0.89					
6/18/03	7:30:00	1.90	0.89					
6/18/03	7:45:00	1.90	0.89					
6/18/03	8:00:00	1.90	0.89					
6/18/03	8:15:00	1.80	0.85					
6/18/03	8:30:00	1.80	0.85					
6/18/03	8:45:00	1.80	0.85					
6/18/03	9:00:00	1.80	0.85					
6/18/03	9:15:00	1.80	0.85					
6/18/03	9:30:00	1.70	0.80					
6/18/03	9:45:00	1.70	0.80					
6/18/03	10:00:00	1.70	0.80					

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
6/18/03	10:15:00	1.50	0.71					
6/18/03	10:30:00	1.40	0.66					
6/18/03	10:45:00	1.30	0.61	GB-3	6/18/03	10:50	2.43	3.97
6/18/03	11:00:00	1.40	0.66					
6/18/03	11:15:00	1.30	0.61	GB-5	6/1/8/03	0.472222	1.96	3.20
6/18/03	11:30:00	1.30	0.61					
6/18/03	11:45:00	1.60	0.75					
6/18/03	12:00:00	1.70	0.80					
6/18/03	12:15:00	1.70	0.80					
6/18/03	12:30:00	1.70	0.80					
6/18/03	12:45:00	1.80	0.85					
6/18/03	13:00:00	2.00	0.94					
6/18/03	13:15:00	2.10	0.99					
6/18/03	13:30:00	2.00	0.94					
6/18/03	13:45:00	2.00	0.94					
6/18/03	14:00:00	2.00	0.94					
6/18/03	14:15:00	2.30	1.08					
6/18/03	14:30:00	2.30	1.08					
6/18/03	14:45:00	2.50	1.18					
6/18/03	15:00:00	2.60	1.22					
6/18/03	15:15:00	2.30	1.08					
6/18/03	15:30:00	2.60	1.22					
6/18/03	15:45:00	2.60	1.22					
6/18/03	16:00:00	2.40	1.13					
6/18/03	16:15:00	2.70	1.27					
6/18/03	16:30:00	2.60	1.22					
6/18/03	16:45:00	2.80	1.32					
6/18/03	17:00:00	2.80	1.32					
6/18/03	17:15:00	2.60	1.22					
6/18/03	17:30:00	2.70	1.27					
6/18/03	17:45:00	2.60	1.22					
6/18/03	18:00:00	2.60	1.22					
6/18/03	18:15:00	2.50	1.18					
6/18/03	18:30:00	2.60	1.22					
6/18/03	18:45:00	2.50	1.18					
6/18/03	19:00:00	2.40	1.13					
6/18/03	19:15:00	2.40	1.13					
6/18/03	19:30:00	2.30	1.08					
6/18/03	19:45:00	2.40	1.13					
6/18/03	20:00:00	2.30	1.08					
6/18/03	20:15:00	2.40	1.13					
6/18/03	20:30:00	2.30	1.08					
6/18/03	20:45:00	2.30	1.08					

Table H2.7.
Survey Station GB-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
6/18/03	21:00:00	2.20	1.04					
6/18/03	21:15:00	2.20	1.04					
6/18/03	21:30:00	2.30	1.08					
6/18/03	21:45:00	2.30	1.08					
6/18/03	22:00:00	2.40	1.13					
6/18/03	22:15:00	2.40	1.13					
6/18/03	22:30:00	2.40	1.13					
6/18/03	22:45:00	2.40	1.13					
6/18/03	23:00:00	2.40	1.13					
6/18/03	23:15:00	2.40	1.13					
6/18/03	23:30:00	2.40	1.13					
6/18/03	23:45:00	2.40	1.13					
6/19/03	0:00:00	2.30	1.08					
	AVG =	2.12						

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Table H2.7.
Survey Station GB-4

Table H2.8.Continuous Data Used for GB-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
6/18/03	0:00:00	2.10	0.99					
6/18/03	0:15:00	2.10	0.99					
6/18/03	0:30:00	2.10	0.99					
6/18/03	0:45:00	2.10	0.99					
6/18/03	1:00:00	2.10	0.99					
6/18/03	1:15:00	2.10	0.99					
6/18/03	1:30:00	2.10	0.99					
6/18/03	1:45:00	2.10	0.99					
6/18/03	2:00:00	2.10	0.99					
6/18/03	2:15:00	2.10	0.99					
6/18/03	2:30:00	2.10	0.99					
6/18/03	2:45:00	2.10	0.99					
6/18/03	3:00:00	2.10	0.99					
6/18/03	3:15:00	2.10	0.99					
6/18/03	3:30:00	2.10	0.99					
6/18/03	3:45:00	2.10	0.99					
6/18/03	4:00:00	2.10	0.99					
6/18/03	4:15:00	2.10	0.99					
6/18/03	4:30:00	2.10	0.99					
6/18/03	4:45:00	2.00	0.94					
6/18/03	5:00:00	2.00	0.94					
6/18/03	5:15:00	2.00	0.94					
6/18/03	5:30:00	2.00	0.94					
6/18/03	5:45:00	2.00	0.94					
6/18/03	6:00:00	2.00	0.94					
6/18/03	6:15:00	2.00	0.94					
6/18/03	6:30:00	2.00	0.94					
6/18/03	6:45:00	1.90	0.89					
6/18/03	7:00:00	1.90	0.89					
6/18/03	7:15:00	1.90	0.89					
6/18/03	7:30:00	1.90	0.89					
6/18/03	7:45:00	1.90	0.89					
6/18/03	8:00:00	1.90	0.89					
6/18/03	8:15:00	1.80	0.85					
6/18/03	8:30:00	1.80	0.85					
6/18/03	8:45:00	1.80	0.85					
6/18/03	9:00:00	1.80	0.85					
6/18/03	9:15:00	1.80	0.85					
6/18/03	9:30:00	1.70	0.80					
6/18/03	9:45:00	1.70	0.80					
6/18/03	10:00:00	1.70	0.80					

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
6/18/03	10:15:00	1.50	0.71					
6/18/03	10:30:00	1.40	0.66					
6/18/03	10:45:00	1.30	0.61					
6/18/03	11:00:00	1.40	0.66					
6/18/03	11:15:00	1.30	0.61					
6/18/03	11:30:00	1.30	0.61					
6/18/03	11:45:00	1.60	0.75					
6/18/03	12:00:00	1.70	0.80					
6/18/03	12:15:00	1.70	0.80					
6/18/03	12:30:00	1.70	0.80	GB-7	6/18/03	12:30	2.95	3.69
6/18/03	12:45:00	1.80	0.85					
6/18/03	13:00:00	2.00	0.94					
6/18/03	13:15:00	2.10	0.99					
6/18/03	13:30:00	2.00	0.94					
6/18/03	13:45:00	2.00	0.94					
6/18/03	14:00:00	2.00	0.94					
6/18/03	14:15:00	2.30	1.08					
6/18/03	14:30:00	2.30	1.08					
6/18/03	14:45:00	2.50	1.18					
6/18/03	15:00:00	2.60	1.22					
6/18/03	15:15:00	2.30	1.08					
6/18/03	15:30:00	2.60	1.22					
6/18/03	15:45:00	2.60	1.22					
6/18/03	16:00:00	2.40	1.13					
6/18/03	16:15:00	2.70	1.27					
6/18/03	16:30:00	2.60	1.22					
6/18/03	16:45:00	2.80	1.32					
6/18/03	17:00:00	2.80	1.32					
6/18/03	17:15:00	2.60	1.22					
6/18/03	17:30:00	2.70	1.27					
6/18/03	17:45:00	2.60	1.22					
6/18/03	18:00:00	2.60	1.22					
6/18/03	18:15:00	2.50	1.18					
6/18/03	18:30:00	2.60	1.22					
6/18/03	18:45:00	2.50	1.18					
6/18/03	19:00:00	2.40	1.13					
6/18/03	19:15:00	2.40	1.13					
6/18/03	19:30:00	2.30	1.08					
6/18/03	19:45:00	2.40	1.13					
6/18/03	20:00:00	2.30	1.08					
6/18/03	20:15:00	2.40	1.13					
6/18/03	20:30:00	2.30	1.08					
6/18/03	20:45:00	2.30	1.08					

Table H2.8.
Survey Station GB-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
6/18/03	21:00:00	2.20	1.04					
6/18/03	21:15:00	2.20	1.04					
6/18/03	21:30:00	2.30	1.08					
6/18/03	21:45:00	2.30	1.08					
6/18/03	22:00:00	2.40	1.13					
6/18/03	22:15:00	2.40	1.13					
6/18/03	22:30:00	2.40	1.13					
6/18/03	22:45:00	2.40	1.13					
6/18/03	23:00:00	2.40	1.13					
6/18/03	23:15:00	2.40	1.13					
6/18/03	23:30:00	2.40	1.13					
6/18/03	23:45:00	2.40	1.13					
6/19/03	0:00:00	2.30	1.08					
	AVG =	2.12						

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Table H2.8.
Survey Station GB-6

Table H2.9.Continuous Data Used for HC-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
6/18/03	0:00:00	2.10	0.99					
6/18/03	0:15:00	2.10	0.99					
6/18/03	0:30:00	2.10	0.99					
6/18/03	0:45:00	2.10	0.99					
6/18/03	1:00:00	2.10	0.99					
6/18/03	1:15:00	2.10	0.99					
6/18/03	1:30:00	2.10	0.99					
6/18/03	1:45:00	2.10	0.99					
6/18/03	2:00:00	2.10	0.99					
6/18/03	2:15:00	2.10	0.99					
6/18/03	2:30:00	2.10	0.99					
6/18/03	2:45:00	2.10	0.99					
6/18/03	3:00:00	2.10	0.99					
6/18/03	3:15:00	2.10	0.99					
6/18/03	3:30:00	2.10	0.99					
6/18/03	3:45:00	2.10	0.99					
6/18/03	4:00:00	2.10	0.99					
6/18/03	4:15:00	2.10	0.99					
6/18/03	4:30:00	2.10	0.99					
6/18/03	4:45:00	2.00	0.94					
6/18/03	5:00:00	2.00	0.94					
6/18/03	5:15:00	2.00	0.94					
6/18/03	5:30:00	2.00	0.94					
6/18/03	5:45:00	2.00	0.94					
6/18/03	6:00:00	2.00	0.94					
6/18/03	6:15:00	2.00	0.94					
6/18/03	6:30:00	2.00	0.94					
6/18/03	6:45:00	1.90	0.89					
6/18/03	7:00:00	1.90	0.89					
6/18/03	7:15:00	1.90	0.89					
6/18/03	7:30:00	1.90	0.89					
6/18/03	7:45:00	1.90	0.89					
6/18/03	8:00:00	1.90	0.89					
6/18/03	8:15:00	1.80	0.85					
6/18/03	8:30:00	1.80	0.85					
6/18/03	8:45:00	1.80	0.85					
6/18/03	9:00:00	1.80	0.85					
6/18/03	9:15:00	1.80	0.85					
6/18/03	9:30:00	1.70	0.80					
6/18/03	9:45:00	1.70	0.80					
6/18/03	10:00:00	1.70	0.80					

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
6/18/03	10:15:00	1.50	0.71	HC-3	6/18/03	10:10	2.77	3.92
6/18/03	10:30:00	1.40	0.66					
6/18/03	10:45:00	1.30	0.61	HC-1	6/18/03	10:40	1.82	2.97
6/18/03	11:00:00	1.40	0.66					
6/18/03	11:15:00	1.30	0.61					
6/18/03	11:30:00	1.30	0.61					
6/18/03	11:45:00	1.60	0.75					
6/18/03	12:00:00	1.70	0.80					
6/18/03	12:15:00	1.70	0.80					
6/18/03	12:30:00	1.70	0.80					
6/18/03	12:45:00	1.80	0.85					
6/18/03	13:00:00	2.00	0.94					
6/18/03	13:15:00	2.10	0.99					
6/18/03	13:30:00	2.00	0.94					
6/18/03	13:45:00	2.00	0.94					
6/18/03	14:00:00	2.00	0.94					
6/18/03	14:15:00	2.30	1.08					
6/18/03	14:30:00	2.30	1.08					
6/18/03	14:45:00	2.50	1.18					
6/18/03	15:00:00	2.60	1.22					
6/18/03	15:15:00	2.30	1.08					
6/18/03	15:30:00	2.60	1.22					
6/18/03	15:45:00	2.60	1.22					
6/18/03	16:00:00	2.40	1.13					
6/18/03	16:15:00	2.70	1.27					
6/18/03	16:30:00	2.60	1.22					
6/18/03	16:45:00	2.80	1.32					
6/18/03	17:00:00	2.80	1.32					
6/18/03	17:15:00	2.60	1.22					
6/18/03	17:30:00	2.70	1.27					
6/18/03	17:45:00	2.60	1.22					
6/18/03	18:00:00	2.60	1.22					
6/18/03	18:15:00	2.50	1.18					
6/18/03	18:30:00	2.60	1.22					
6/18/03	18:45:00	2.50	1.18					
6/18/03	19:00:00	2.40	1.13					
6/18/03	19:15:00	2.40	1.13					
6/18/03	19:30:00	2.30	1.08					
6/18/03	19:45:00	2.40	1.13					
6/18/03	20:00:00	2.30	1.08					
6/18/03	20:15:00	2.40	1.13					
6/18/03	20:30:00	2.30	1.08					
6/18/03	20:45:00	2.30	1.08					

Table H2.9.
Survey Station HC-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
6/18/03	21:00:00	2.20	1.04					
6/18/03	21:15:00	2.20	1.04					
6/18/03	21:30:00	2.30	1.08					
6/18/03	21:45:00	2.30	1.08					
6/18/03	22:00:00	2.40	1.13					
6/18/03	22:15:00	2.40	1.13					
6/18/03	22:30:00	2.40	1.13					
6/18/03	22:45:00	2.40	1.13					
6/18/03	23:00:00	2.40	1.13					
6/18/03	23:15:00	2.40	1.13					
6/18/03	23:30:00	2.40	1.13					
6/18/03	23:45:00	2.40	1.13					
6/19/03	0:00:00	2.30	1.08					
	AVG =	2.12						

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Table H2.9.
Survey Station HC-2

Table H2.10.Continuous Data Used for BO-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
6/18/03	0:00:00	2.40	1.27					
6/18/03	0:15:00	2.40	1.27					
6/18/03	0:30:00	2.30	1.22					
6/18/03	0:45:00	2.30	1.22					
6/18/03	1:00:00	2.20	1.17					
6/18/03	1:15:00	2.20	1.17					
6/18/03	1:30:00	2.20	1.17					
6/18/03	1:45:00	2.20	1.17					
6/18/03	2:00:00	2.10	1.12					
6/18/03	2:15:00	2.10	1.12					
6/18/03	2:30:00	2.10	1.12					
6/18/03	2:45:00	2.00	1.06					
6/18/03	3:00:00	2.00	1.06					
6/18/03	3:15:00	1.90	1.01					
6/18/03	3:30:00	1.90	1.01					
6/18/03	3:45:00	1.90	1.01					
6/18/03	4:00:00	1.90	1.01					
6/18/03	4:15:00	1.80	0.96					
6/18/03	4:30:00	1.80	0.96					
6/18/03	4:45:00	1.70	0.90					
6/18/03	5:00:00	1.70	0.90					
6/18/03	5:15:00	1.70	0.90					
6/18/03	5:30:00	1.70	0.90					
6/18/03	5:45:00	1.70	0.90					
6/18/03	6:00:00	1.60	0.85					
6/18/03	6:15:00	1.60	0.85					
6/18/03	6:30:00	1.60	0.85					
6/18/03	6:45:00	1.60	0.85					
6/18/03	7:00:00	1.50	0.80					
6/18/03	7:15:00	1.50	0.80					
6/18/03	7:30:00	1.50	0.80					
6/18/03	7:45:00	1.60	0.85					
6/18/03	8:00:00	1.50	0.80					
6/18/03	8:15:00	1.50	0.80					
6/18/03	8:30:00	1.40	0.74					
6/18/03	8:45:00	1.40	0.74					
6/18/03	9:00:00	1.40	0.74					
6/18/03	9:15:00	1.50	0.80					
6/18/03	9:30:00	1.50	0.80					
6/18/03	9:45:00	1.40	0.74					
6/18/03	10:00:00	1.40	0.74					

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
6/18/03	10:15:00	1.40	0.74					
6/18/03	10:30:00	1.40	0.74					
6/18/03	10:45:00	1.30	0.69					
6/18/03	11:00:00	1.30	0.69					
6/18/03	11:15:00	1.30	0.69					
6/18/03	11:30:00	1.30	0.69					
6/18/03	11:45:00	1.60	0.85					
6/18/03	12:00:00	1.40	0.74					
6/18/03	12:15:00	1.50	0.80					
6/18/03	12:30:00	1.60	0.85					
6/18/03	12:45:00	1.50	0.80					
6/18/03	13:00:00	1.40	0.74					
6/18/03	13:15:00	1.40	0.74					
6/18/03	13:30:00	1.70	0.90					
6/18/03	13:45:00	1.60	0.85					
6/18/03	14:00:00	1.90	1.01					
6/18/03	14:15:00	1.60	0.85					
6/18/03	14:30:00	1.50	0.80					
6/18/03	14:45:00	1.70	0.90					
6/18/03	15:00:00	1.80	0.96					
6/18/03	15:15:00	1.60	0.85					
6/18/03	15:30:00	1.90	1.01					
6/18/03	15:45:00	2.30	1.22					
6/18/03	16:00:00	1.60	0.85					
6/18/03	16:15:00	2.00	1.06					
6/18/03	16:30:00	1.70	0.90					
6/18/03	16:45:00	1.80	0.96					
6/18/03	17:00:00	2.20	1.17					
6/18/03	17:15:00	2.00	1.06					
6/18/03	17:30:00	2.10	1.12					
6/18/03	17:45:00	2.20	1.17					
6/18/03	18:00:00	2.10	1.12					
6/18/03	18:15:00	2.10	1.12					
6/18/03	18:30:00	2.10	1.12					
6/18/03	18:45:00	2.10	1.12					
6/18/03	19:00:00	2.10	1.12					
6/18/03	19:15:00	2.30	1.22					
6/18/03	19:30:00	2.10	1.12					
6/18/03	19:45:00	2.20	1.17					
6/18/03	20:00:00	2.70	1.43					
6/18/03	20:15:00	2.20	1.17					
6/18/03	20:30:00	2.50	1.33					
6/18/03	20:45:00	2.50	1.33					

Table H2.10.
Survey Station BO-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
6/18/03	21:00:00	2.60	1.38					
6/18/03	21:15:00	2.40	1.27					
6/18/03	21:30:00	2.40	1.27					
6/18/03	21:45:00	2.50	1.33					
6/18/03	22:00:00	2.40	1.27					
6/18/03	22:15:00	2.40	1.27					
6/18/03	22:30:00	2.40	1.27					
6/18/03	22:45:00	2.30	1.22					
6/18/03	23:00:00	2.30	1.22					
6/18/03	23:15:00	2.20	1.17					
6/18/03	23:30:00	2.20	1.17					
6/18/03	23:45:00	2.10	1.12					
6/19/03	0:00:00	2.10	1.12					
	AVG =	1.88						

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Table H2.10.
Survey Station BO-1

Table H2.11.Continuous Data Used for BoC-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
6/18/03	0:00:00	3.70	1.62					
6/18/03	0:15:00	3.50	1.53					
6/18/03	0:30:00	3.50	1.53					
6/18/03	0:45:00	3.40	1.49					
6/18/03	1:00:00	3.40	1.49					
6/18/03	1:15:00	3.30	1.45					
6/18/03	1:30:00	3.30	1.45					
6/18/03	1:45:00	3.30	1.45					
6/18/03	2:00:00	3.00	1.31					
6/18/03	2:15:00	3.10	1.36					
6/18/03	2:30:00	3.00	1.31					
6/18/03	2:45:00	3.00	1.31					
6/18/03	3:00:00	2.90	1.27					
6/18/03	3:15:00	2.90	1.27					
6/18/03	3:30:00	2.90	1.27					
6/18/03	3:45:00	2.80	1.23					
6/18/03	4:00:00	2.60	1.14					
6/18/03	4:15:00	2.60	1.14					
6/18/03	4:30:00	2.50	1.09					
6/18/03	4:45:00	2.50	1.09					
6/18/03	5:00:00	2.50	1.09					
6/18/03	5:15:00	2.40	1.05					
6/18/03	5:30:00	2.40	1.05					
6/18/03	5:45:00	2.30	1.01					
6/18/03	6:00:00	2.20	0.96					
6/18/03	6:15:00	2.20	0.96					
6/18/03	6:30:00	2.10	0.92					
6/18/03	6:45:00	2.00	0.88					
6/18/03	7:00:00	2.10	0.92					
6/18/03	7:15:00	1.80	0.79					
6/18/03	7:30:00	2.00	0.88					
6/18/03	7:45:00	1.90	0.83					
6/18/03	8:00:00	1.90	0.83					
6/18/03	8:15:00	1.90	0.83					
6/18/03	8:30:00	1.70	0.74					
6/18/03	8:45:00	1.60	0.70					
6/18/03	9:00:00	1.70	0.74					
6/18/03	9:15:00	1.60	0.70					
6/18/03	9:30:00	1.60	0.70					
6/18/03	9:45:00	1.50	0.66					
6/18/03	10:00:00	1.50	0.66					

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
6/18/03	10:15:00	1.50	0.66					
6/18/03	10:30:00	1.60	0.70					
6/18/03	10:45:00	1.60	0.70					
6/18/03	11:00:00	1.60	0.70					
6/18/03	11:15:00	1.90	0.83					
6/18/03	11:30:00	1.50	0.66					
6/18/03	11:45:00	1.70	0.74					
6/18/03	12:00:00	1.90	0.83					
6/18/03	12:15:00	1.70	0.74					
6/18/03	12:30:00	1.90	0.83					
6/18/03	12:45:00	1.90	0.83					
6/18/03	13:00:00	1.90	0.83					
6/18/03	13:15:00	1.80	0.79					
6/18/03	13:30:00	1.90	0.83					
6/18/03	13:45:00	2.20	0.96					
6/18/03	14:00:00	1.80	0.79					
6/18/03	14:15:00	1.70	0.74					
6/18/03	14:30:00	2.10	0.92					
6/18/03	14:45:00	1.60	0.70					
6/18/03	15:00:00	2.10	0.92					
6/18/03	15:15:00	1.80	0.79					
6/18/03	15:30:00	1.90	0.83					
6/18/03	15:45:00	2.00	0.88					
6/18/03	16:00:00	1.80	0.79					
6/18/03	16:15:00	1.70	0.74					
6/18/03	16:30:00	2.00	0.88					
6/18/03	16:45:00	2.30	1.01					
6/18/03	17:00:00	1.80	0.79					
6/18/03	17:15:00	2.50	1.09					
6/18/03	17:30:00	2.30	1.01					
6/18/03	17:45:00	2.40	1.05					
6/18/03	18:00:00	2.50	1.09					
6/18/03	18:15:00	2.00	0.88					
6/18/03	18:30:00	2.00	0.88					
6/18/03	18:45:00	1.70	0.74					
6/18/03	19:00:00	2.80	1.23					
6/18/03	19:15:00	1.90	0.83					
6/18/03	19:30:00	2.40	1.05					
6/18/03	19:45:00	2.70	1.18					
6/18/03	20:00:00	2.40	1.05					
6/18/03	20:15:00	2.80	1.23					
6/18/03	20:30:00	2.20	0.96					
6/18/03	20:45:00	2.90	1.27					

Table H2.11.
Survey Station BoC-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
6/18/03	21:00:00	2.30	1.01					
6/18/03	21:15:00	3.10	1.36					
6/18/03	21:30:00	2.90	1.27					
6/18/03	21:45:00	2.50	1.09					
6/18/03	22:00:00	2.40	1.05					
6/18/03	22:15:00	2.30	1.01					
6/18/03	22:30:00	2.60	1.14					
6/18/03	22:45:00	2.70	1.18					
6/18/03	23:00:00	1.80	0.79					
6/18/03	23:15:00	2.10	0.92					
6/18/03	23:30:00	2.60	1.14					
6/18/03	23:45:00	2.30	1.01					
6/19/03	0:00:00	3.10	1.36					
	AVG =	2.28						

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Table H2.11.
Survey Station BoC-1

Table H2.12.Continuous Data Used for LPC-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
6/18/03	0:00:00	1.10	1.45					
6/18/03	0:15:00	1.00	1.32					
6/18/03	0:30:00	0.80	1.05					
6/18/03	0:45:00	0.90	1.19					
6/18/03	1:00:00	1.00	1.32					
6/18/03	1:15:00	1.00	1.32					
6/18/03	1:30:00	1.00	1.32					
6/18/03	1:45:00	1.10	1.45					
6/18/03	2:00:00	1.10	1.45					
6/18/03	2:15:00	1.10	1.45					
6/18/03	2:30:00	1.10	1.45					
6/18/03	2:45:00	1.00	1.32					
6/18/03	3:00:00	1.00	1.32					
6/18/03	3:15:00	1.00	1.32					
6/18/03	3:30:00	1.00	1.32					
6/18/03	3:45:00	1.00	1.32					
6/18/03	4:00:00	0.90	1.19					
6/18/03	4:15:00	0.80	1.05					
6/18/03	4:30:00	0.90	1.19					
6/18/03	4:45:00	0.90	1.19					
6/18/03	5:00:00	0.90	1.19					
6/18/03	5:15:00	0.80	1.05					
6/18/03	5:30:00	0.90	1.19					
6/18/03	5:45:00	0.80	1.05					
6/18/03	6:00:00	0.90	1.19					
6/18/03	6:15:00	0.90	1.19					
6/18/03	6:30:00	0.80	1.05					
6/18/03	6:45:00	0.80	1.05					
6/18/03	7:00:00	0.80	1.05					
6/18/03	7:15:00	0.80	1.05					
6/18/03	7:30:00	0.80	1.05					
6/18/03	7:45:00	0.80	1.05					
6/18/03	8:00:00	0.90	1.19					
6/18/03	8:15:00	0.90	1.19					
6/18/03	8:30:00	0.90	1.19					
6/18/03	8:45:00	0.90	1.19					
6/18/03	9:00:00	0.80	1.05					
6/18/03	9:15:00	0.90	1.19					
6/18/03	9:30:00	0.90	1.19					
6/18/03	9:45:00	0.90	1.19					
6/18/03	10:00:00	0.90	1.19					

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
6/18/03	10:15:00	0.90	1.19					
6/18/03	10:30:00	0.90	1.19					
6/18/03	10:45:00	0.90	1.19					
6/18/03	11:00:00	1.00	1.32					
6/18/03	11:15:00	1.00	1.32					
6/18/03	11:30:00	1.10	1.45					
6/18/03	11:45:00	1.20	1.58					
6/18/03	12:00:00	1.20	1.58					
6/18/03	12:15:00	1.10	1.45					
6/18/03	12:30:00	1.20	1.58					
6/18/03	12:45:00	1.10	1.45					
6/18/03	13:00:00	1.20	1.58					
6/18/03	13:15:00	0.90	1.19					
6/18/03	13:30:00	1.00	1.32					
6/18/03	13:45:00	1.00	1.32					
6/18/03	14:00:00	1.00	1.32					
6/18/03	14:15:00	1.00	1.32					
6/18/03	14:30:00	1.10	1.45					
6/18/03	14:45:00	1.00	1.32					
6/18/03	15:00:00	0.90	1.19					
6/18/03	15:15:00	0.90	1.19					
6/18/03	15:30:00	1.00	1.32					
6/18/03	15:45:00	0.90	1.19					
6/18/03	16:00:00	1.00	1.32					
6/18/03	16:15:00	0.90	1.19					
6/18/03	16:30:00	0.80	1.05					
6/18/03	16:45:00	0.80	1.05					
6/18/03	17:00:00	0.70	0.92					
6/18/03	17:15:00	0.60	0.79					
6/18/03	17:30:00	0.60	0.79					
6/18/03	17:45:00	0.60	0.79					
6/18/03	18:00:00	0.50	0.66					
6/18/03	18:15:00	0.40	0.53					
6/18/03	18:30:00	0.40	0.53					
6/18/03	18:45:00	0.40	0.53					
6/18/03	19:00:00	0.30	0.40					
6/18/03	19:15:00	0.30	0.40					
6/18/03	19:30:00	0.20	0.26					
6/18/03	19:45:00	0.20	0.26					
6/18/03	20:00:00	0.20	0.26					
6/18/03	20:15:00	0.20	0.26					
6/18/03	20:30:00	0.30	0.40					
6/18/03	20:45:00	0.20	0.26					

Table H2.12.
Survey Station LPC-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
6/18/03	21:00:00	0.20	0.26					
6/18/03	21:15:00	0.30	0.40					
6/18/03	21:30:00	0.20	0.26					
6/18/03	21:45:00	0.20	0.26					
6/18/03	22:00:00	0.20	0.26					
6/18/03	22:15:00	0.20	0.26					
6/18/03	22:30:00	0.30	0.40					
6/18/03	22:45:00	0.20	0.26					
6/18/03	23:00:00	0.20	0.26					
6/18/03	23:15:00	0.20	0.26					
6/18/03	23:30:00	0.20	0.26					
6/18/03	23:45:00	0.20	0.26					
6/19/03	0:00:00	0.20	0.26					
	AVG =	0.76						

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Table H2.12.
Survey Station LPC-1

Table H2.13.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
6/18/03	0:00:00	3.20	0.90					
6/18/03	0:15:00	3.20	0.90					
6/18/03	0:30:00	3.10	0.87					
6/18/03	0:45:00	3.10	0.87					
6/18/03	1:00:00	3.10	0.87					
6/18/03	1:15:00	3.30	0.93					
6/18/03	1:30:00	3.30	0.93					
6/18/03	1:45:00	3.50	0.98					
6/18/03	2:00:00	3.40	0.95					
6/18/03	2:15:00	3.60	1.01					
6/18/03	2:30:00	3.80	1.07					
6/18/03	2:45:00	3.80	1.07					
6/18/03	3:00:00	3.70	1.04					
6/18/03	3:15:00	3.40	0.95					
6/18/03	3:30:00	3.30	0.93					
6/18/03	3:45:00	2.90	0.81					
6/18/03	4:00:00	3.00	0.84					
6/18/03	4:15:00	3.10	0.87					
6/18/03	4:30:00	3.80	1.07					
6/18/03	4:45:00	4.30	1.21					
6/18/03	5:00:00	4.60	1.29					
6/18/03	5:15:00	3.90	1.09					
6/18/03	5:30:00	4.10	1.15					
6/18/03	5:45:00	3.90	1.09					
6/18/03	6:00:00	3.70	1.04					
6/18/03	6:15:00	3.80	1.07					
6/18/03	6:30:00	3.90	1.09					
6/18/03	6:45:00	3.90	1.09					
6/18/03	7:00:00	4.00	1.12					
6/18/03	7:15:00	3.80	1.07					
6/18/03	7:30:00	3.90	1.09					
6/18/03	7:45:00	4.10	1.15					
6/18/03	8:00:00	4.00	1.12					
6/18/03	8:15:00	3.80	1.07					
6/18/03	8:30:00	3.50	0.98					
6/18/03	8:45:00	2.40	0.67					
6/18/03	9:00:00	2.30	0.65					
6/18/03	9:15:00	2.40	0.67					
6/18/03	9:30:00	2.40	0.67					
6/18/03	9:45:00	2.50	0.70					
6/18/03	10:00:00	2.20	0.62					

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
6/18/03	10:15:00	2.70	0.76					
6/18/03	10:30:00	3.60	1.01					
6/18/03	10:45:00	3.70	1.04					
6/18/03	11:00:00	3.70	1.04					
6/18/03	11:15:00	3.70	1.04					
6/18/03	11:30:00	3.60	1.01					
6/18/03	11:45:00	3.50	0.98					
6/18/03	12:00:00	3.30	0.93					
6/18/03	12:15:00	2.70	0.76					
6/18/03	12:30:00	2.80	0.79					
6/18/03	12:45:00	3.10	0.87					
6/18/03	13:00:00	3.00	0.84					
6/18/03	13:15:00	3.20	0.90					
6/18/03	13:30:00	4.00	1.12					
6/18/03	13:45:00	3.20	0.90					
6/18/03	14:00:00	3.80	1.07					
6/18/03	14:15:00	3.50	0.98					
6/18/03	14:30:00	3.70	1.04					
6/18/03	14:45:00	4.40	1.23					
6/18/03	15:00:00	4.30	1.21					
6/18/03	15:15:00	4.10	1.15					
6/18/03	15:30:00	4.20	1.18					
6/18/03	15:45:00	4.60	1.29					
6/18/03	16:00:00	4.60	1.29					
6/18/03	16:15:00	4.60	1.29					
6/18/03	16:30:00	5.30	1.49					
6/18/03	16:45:00	4.60	1.29					
6/18/03	17:00:00	5.30	1.49					
6/18/03	17:15:00	5.10	1.43					
6/18/03	17:30:00	5.30	1.49					
6/18/03	17:45:00	6.10	1.71					
6/18/03	18:00:00	6.00	1.68					
6/18/03	18:15:00	5.00	1.40					
6/18/03	18:30:00	6.20	1.74					
6/18/03	18:45:00	5.80	1.63					
6/18/03	19:00:00	2.90	0.81					
6/18/03	19:15:00	1.90	0.53					
6/18/03	19:30:00	2.20	0.62					
6/18/03	19:45:00	2.30	0.65					
6/18/03	20:00:00	2.30	0.65					
6/18/03	20:15:00	2.80	0.79					
6/18/03	20:30:00	2.80	0.79					
6/18/03	20:45:00	3.00	0.84					

Table H2.13.
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
6/18/03	21:00:00	2.80	0.79					
6/18/03	21:15:00	2.70	0.76					
6/18/03	21:30:00	2.60	0.73					
6/18/03	21:45:00	2.70	0.76					
6/18/03	22:00:00	2.50	0.70					
6/18/03	22:15:00	2.70	0.76					
6/18/03	22:30:00	3.00	0.84					
6/18/03	22:45:00	3.50	0.98					
6/18/03	23:00:00	3.30	0.93					
6/18/03	23:15:00	2.90	0.81					
6/18/03	23:30:00	3.20	0.90					
6/18/03	23:45:00	3.10	0.87					
6/19/03	0:00:00	3.10	0.87					
	AVG =	3.56						

FILE: R:\PROJECTS\3110-051\BEOUF PDF\DO AVG CALCULATIONS-BOEUF.XLS

Table H2.13.
Survey Station LDA-1

APPENDIX H3

Estimated Daily Maximum DO Calculations

Table H3.1.Continuous Data Used for TC-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
6/18/03	0:00:00	5.90	0.52					
6/18/03	0:15:00	5.70	0.50					
6/18/03	0:30:00	5.80	0.51					
6/18/03	0:45:00	5.90	0.52					
6/18/03	1:00:00	5.80	0.51					
6/18/03	1:15:00	5.70	0.50					
6/18/03	1:30:00	5.50	0.49					
6/18/03	1:45:00	5.50	0.49					
6/18/03	2:00:00	5.70	0.50					
6/18/03	2:15:00	5.70	0.50					
6/18/03	2:30:00	5.60	0.50					
6/18/03	2:45:00	5.50	0.49					
6/18/03	3:00:00	5.50	0.49					
6/18/03	3:15:00	5.40	0.48					
6/18/03	3:30:00	5.30	0.47					
6/18/03	3:45:00	5.30	0.47					
6/18/03	4:00:00	5.20	0.46					
6/18/03	4:15:00	5.30	0.47					
6/18/03	4:30:00	5.30	0.47					
6/18/03	4:45:00	5.20	0.46					
6/18/03	5:00:00	5.10	0.45					
6/18/03	5:15:00	5.30	0.47					
6/18/03	5:30:00	4.80	0.42					
6/18/03	5:45:00	4.70	0.42					
6/18/03	6:00:00	5.20	0.46					
6/18/03	6:15:00	5.30	0.47					
6/18/03	6:30:00	5.20	0.46					
6/18/03	6:45:00	5.10	0.45					
6/18/03	7:00:00	5.10	0.45					
6/18/03	7:15:00	5.10	0.45					
6/18/03	7:30:00	5.10	0.45					
6/18/03	7:45:00	5.20	0.46					
6/18/03	8:00:00	5.30	0.47					
6/18/03	8:15:00	5.10	0.45					
6/18/03	8:30:00	5.20	0.46					
6/18/03	8:45:00	5.10	0.45					
6/18/03	9:00:00	5.30	0.47					
6/18/03	9:15:00	5.40	0.48					
6/18/03	9:30:00	5.60	0.50					
6/18/03	9:45:00	5.60	0.50					
6/18/03	10:00:00	5.70	0.50					

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
6/18/03	10:15:00	5.60	0.50					
6/18/03	10:30:00	5.80	0.51					
6/18/03	10:45:00	5.90	0.52					
6/18/03	11:00:00	6.20	0.55	TC-2	6/18/03	11:00	3.22	5.87
6/18/03	11:15:00	6.40	0.57					
6/18/03	11:30:00	6.60	0.58					
6/18/03	11:45:00	7.00	0.62					
6/18/03	12:00:00	7.20	0.64					
6/18/03	12:15:00	7.40	0.65					
6/18/03	12:30:00	7.20	0.64					
6/18/03	12:45:00	7.60	0.67					
6/18/03	13:00:00	7.70	0.68					
6/18/03	13:15:00	8.10	0.72					
6/18/03	13:30:00	8.10	0.72					
6/18/03	13:45:00	8.30	0.73					
6/18/03	14:00:00	8.60	0.76					
6/18/03	14:15:00	9.10	0.81					
6/18/03	14:30:00	9.00	0.80					
6/18/03	14:45:00	9.10	0.81					
6/18/03	15:00:00	9.10	0.81					
6/18/03	15:15:00	9.20	0.81					
6/18/03	15:30:00	9.30	0.82					
6/18/03	15:45:00	9.70	0.86					
6/18/03	16:00:00	9.80	0.87					
6/18/03	16:15:00	10.00	0.88					
6/18/03	16:30:00	10.30	0.91					
6/18/03	16:45:00	10.60	0.94					
6/18/03	17:00:00	10.30	0.91					
6/18/03	17:15:00	11.20	0.99					
6/18/03	17:30:00	11.10	0.98					
6/18/03	17:45:00	11.20	0.99					
6/18/03	18:00:00	11.10	0.98					
6/18/03	18:15:00	11.30	1.00					
6/18/03	18:30:00	11.20	0.99					
6/18/03	18:45:00	11.20	0.99					
6/18/03	19:00:00	11.10	0.98					
6/18/03	19:15:00	11.20	0.99					
6/18/03	19:30:00	11.20	0.99					
6/18/03	19:45:00	11.30	1.00					
6/18/03	20:00:00	11.20	0.99					
6/18/03	20:15:00	11.00	0.97					
6/18/03	20:30:00	11.00	0.97					
6/18/03	20:45:00	10.80	0.96					

Table H3.1.
Survey Station TC-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
6/18/03	21:00:00	10.40	0.92					
6/18/03	21:15:00	10.70	0.95					
6/18/03	21:30:00	10.50	0.93					
6/18/03	21:45:00	10.30	0.91					
6/18/03	22:00:00	10.00	0.88					
6/18/03	22:15:00	10.40	0.92					
6/18/03	22:30:00	9.90	0.88					
6/18/03	22:45:00	10.10	0.89					
6/18/03	23:00:00	10.30	0.91					
6/18/03	23:15:00	10.20	0.90					
6/18/03	23:30:00	10.10	0.89					
6/18/03	23:45:00	9.80	0.87					
6/19/03	0:00:00	9.70	0.86					
	MAX =	11.30						

FILE: R:\PROJECTS\3110-051\BEOUF PDF\DO MAX CALCULATIONS-BOEUF.XLS

Table H3.1.
Survey Station TC-1

Table H3.2.Continuous Data Used for LB-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
6/18/03	0:00:00	.						
6/18/03	0:15:00	.						
6/18/03	0:30:00	0.10	0.25					
6/18/03	0:45:00	0.10	0.25					
6/18/03	1:00:00	.						
6/18/03	1:15:00	.						
6/18/03	1:30:00	0.10	0.25					
6/18/03	1:45:00	0.10	0.25					
6/18/03	2:00:00	0.10	0.25					
6/18/03	2:15:00	0.10	0.25					
6/18/03	2:30:00	0.20	0.50					
6/18/03	2:45:00	0.20	0.50					
6/18/03	3:00:00	0.20	0.50					
6/18/03	3:15:00	0.10	0.25					
6/18/03	3:30:00	0.10	0.25					
6/18/03	3:45:00	0.10	0.25					
6/18/03	4:00:00	0.10	0.25					
6/18/03	4:15:00	0.10	0.25					
6/18/03	4:30:00	0.10	0.25					
6/18/03	4:45:00	0.10	0.25					
6/18/03	5:00:00	0.10	0.25					
6/18/03	5:15:00	0.10	0.25					
6/18/03	5:30:00	.						
6/18/03	5:45:00	.						
6/18/03	6:00:00	.						
6/18/03	6:15:00	0.10	0.25					
6/18/03	6:30:00	.						
6/18/03	6:45:00	0.10	0.25					
6/18/03	7:00:00	.						
6/18/03	7:15:00	.						
6/18/03	7:30:00	0.10	0.25					
6/18/03	7:45:00	0.10	0.25					
6/18/03	8:00:00	0.10	0.25					
6/18/03	8:15:00	0.10	0.25					
6/18/03	8:30:00	0.40	1.00					
6/18/03	8:45:00	0.10	0.25					
6/18/03	9:00:00	0.10	0.25					
6/18/03	9:15:00	0.10	0.25					
6/18/03	9:30:00	0.10	0.25					
6/18/03	9:45:00	0.20	0.50					
6/18/03	10:00:00	0.10	0.25					

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
6/18/03	10:15:00	0.10	0.25					
6/18/03	10:30:00	0.10	0.25					
6/18/03	10:45:00	0.10	0.25					
6/18/03	11:00:00	0.30	0.75					
6/18/03	11:15:00	0.20	0.50					
6/18/03	11:30:00	0.10	0.25					
6/18/03	11:45:00	0.10	0.25					
6/18/03	12:00:00	0.10	0.25					
6/18/03	12:15:00	0.10	0.25					
6/18/03	12:30:00	0.10	0.25					
6/18/03	12:45:00	0.10	0.25					
6/18/03	13:00:00	0.10	0.25					
6/18/03	13:15:00	0.10	0.25					
6/18/03	13:30:00	0.10	0.25					
6/18/03	13:45:00	0.10	0.25					
6/18/03	14:00:00	0.10	0.25					
6/18/03	14:15:00	0.10	0.25					
6/18/03	14:30:00	0.10	0.25					
6/18/03	14:45:00	0.10	0.25					
6/18/03	15:00:00	0.10	0.25					
6/18/03	15:15:00	0.10	0.25					
6/18/03	15:30:00	0.10	0.25					
6/18/03	15:45:00	.						
6/18/03	16:00:00	0.10	0.25					
6/18/03	16:15:00	.						
6/18/03	16:30:00	.						
6/18/03	16:45:00	.						
6/18/03	17:00:00	0.20	0.50					
6/18/03	17:15:00	0.10	0.25					
6/18/03	17:30:00	.						
6/18/03	17:45:00	0.10	0.25					
6/18/03	18:00:00	.						
6/18/03	18:15:00	0.30	0.75					
6/18/03	18:30:00	.						
6/18/03	18:45:00	.						
6/18/03	19:00:00	0.10	0.25					
6/18/03	19:15:00	.						
6/18/03	19:30:00	.						
6/18/03	19:45:00	0.10	0.25					
6/18/03	20:00:00	.						
6/18/03	20:15:00	.						
6/18/03	20:30:00	.						
6/18/03	20:45:00	.						

Table H3.2.
Survey Station LB-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
6/18/03	21:00:00	.						
6/18/03	21:15:00	.						
6/18/03	21:30:00	.						
6/18/03	21:45:00	.						
6/18/03	22:00:00	.						
6/18/03	22:15:00	.						
6/18/03	22:30:00	0.10	0.25					
6/18/03	22:45:00	.						
6/18/03	23:00:00	.						
6/18/03	23:15:00	.						
6/18/03	23:30:00	.						
6/18/03	23:45:00	0.10	0.25					
6/19/03	0:00:00	.						
	MAX =	0.40						

FILE: R:\PROJECTS\3110-051\BEOUF PDF\DO MAX CALCULATIONS-BOEUF.XLS

Table H3.2.
Survey Station LB-1

Table H3.3.Continuous Data Used for BBf-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
6/18/03	0:00:00	3.10	0.53					
6/18/03	0:15:00	3.00	0.52					
6/18/03	0:30:00	3.00	0.52					
6/18/03	0:45:00	2.90	0.50					
6/18/03	1:00:00	2.90	0.50					
6/18/03	1:15:00	2.80	0.48					
6/18/03	1:30:00	2.80	0.48					
6/18/03	1:45:00	2.80	0.48					
6/18/03	2:00:00	2.80	0.48					
6/18/03	2:15:00	2.70	0.47					
6/18/03	2:30:00	2.70	0.47					
6/18/03	2:45:00	2.70	0.47					
6/18/03	3:00:00	2.60	0.45					
6/18/03	3:15:00	2.60	0.45					
6/18/03	3:30:00	2.60	0.45					
6/18/03	3:45:00	2.50	0.43					
6/18/03	4:00:00	2.40	0.41					
6/18/03	4:15:00	2.50	0.43					
6/18/03	4:30:00	2.40	0.41					
6/18/03	4:45:00	2.40	0.41					
6/18/03	5:00:00	2.40	0.41					
6/18/03	5:15:00	2.30	0.40					
6/18/03	5:30:00	2.30	0.40					
6/18/03	5:45:00	2.30	0.40					
6/18/03	6:00:00	2.30	0.40					
6/18/03	6:15:00	2.20	0.38					
6/18/03	6:30:00	2.20	0.38					
6/18/03	6:45:00	2.20	0.38					
6/18/03	7:00:00	2.20	0.38					
6/18/03	7:15:00	2.20	0.38					
6/18/03	7:30:00	2.10	0.36					
6/18/03	7:45:00	2.10	0.36					
6/18/03	8:00:00	2.10	0.36					
6/18/03	8:15:00	2.10	0.36					
6/18/03	8:30:00	2.10	0.36					
6/18/03	8:45:00	2.20	0.38					
6/18/03	9:00:00	2.20	0.38					
6/18/03	9:15:00	2.10	0.36					
6/18/03	9:30:00	2.10	0.36					
6/18/03	9:45:00	2.30	0.40					
6/18/03	10:00:00	2.30	0.40	BBf-2	6/18/03	9:55	2.67	6.73

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
6/18/03	10:15:00	2.80	0.48					
6/18/03	10:30:00	2.50	0.43					
6/18/03	10:45:00	2.40	0.41					
6/18/03	11:00:00	2.70	0.47					
6/18/03	11:15:00	2.60	0.45					
6/18/03	11:30:00	2.60	0.45					
6/18/03	11:45:00	3.10	0.53					
6/18/03	12:00:00	2.30	0.40					
6/18/03	12:15:00	3.10	0.53					
6/18/03	12:30:00	2.90	0.50					
6/18/03	12:45:00	3.30	0.57					
6/18/03	13:00:00	3.10	0.53					
6/18/03	13:15:00	3.80	0.66					
6/18/03	13:30:00	3.70	0.64					
6/18/03	13:45:00	3.60	0.62					
6/18/03	14:00:00	3.90	0.67					
6/18/03	14:15:00	4.50	0.78					
6/18/03	14:30:00	4.40	0.76					
6/18/03	14:45:00	4.10	0.71					
6/18/03	15:00:00	4.20	0.72					
6/18/03	15:15:00	5.00	0.86					
6/18/03	15:30:00	4.60	0.79					
6/18/03	15:45:00	4.20	0.72					
6/18/03	16:00:00	4.40	0.76					
6/18/03	16:15:00	4.40	0.76					
6/18/03	16:30:00	4.40	0.76					
6/18/03	16:45:00	3.90	0.67					
6/18/03	17:00:00	4.90	0.84					
6/18/03	17:15:00	4.40	0.76					
6/18/03	17:30:00	4.30	0.74					
6/18/03	17:45:00	4.30	0.74					
6/18/03	18:00:00	5.20	0.90					
6/18/03	18:15:00	5.10	0.88					
6/18/03	18:30:00	4.90	0.84					
6/18/03	18:45:00	5.50	0.95					
6/18/03	19:00:00	5.80	1.00					
6/18/03	19:15:00	5.40	0.93					
6/18/03	19:30:00	5.30	0.91					
6/18/03	19:45:00	5.00	0.86					
6/18/03	20:00:00	5.30	0.91					
6/18/03	20:15:00	5.40	0.93					
6/18/03	20:30:00	5.20	0.90					
6/18/03	20:45:00	5.00	0.86					

Table H3.3.
Survey Station BBf-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
6/18/03	21:00:00	5.00	0.86					
6/18/03	21:15:00	4.80	0.83					
6/18/03	21:30:00	4.60	0.79					
6/18/03	21:45:00	4.50	0.78					
6/18/03	22:00:00	4.40	0.76					
6/18/03	22:15:00	4.30	0.74					
6/18/03	22:30:00	4.40	0.76					
6/18/03	22:45:00	4.30	0.74					
6/18/03	23:00:00	4.20	0.72					
6/18/03	23:15:00	4.20	0.72					
6/18/03	23:30:00	4.10	0.71					
6/18/03	23:45:00	4.00	0.69					
6/19/03	0:00:00	4.10	0.71					
	MAX =	5.80						

FILE: R:\PROJECTS\3110-051\BEOUF PDF\DO MAX CALCULATIONS-BOEUF.XLS

Table H3.3.
Survey Station BBf-1

Table H3.4.Continuous Data Used for BBf-3.

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
6/18/03	0:00:00	3.00	0.65					
6/18/03	0:15:00	3.00	0.65					
6/18/03	0:30:00	2.90	0.63					
6/18/03	0:45:00	2.90	0.63					
6/18/03	1:00:00	2.80	0.61					
6/18/03	1:15:00	2.90	0.63					
6/18/03	1:30:00	2.80	0.61					
6/18/03	1:45:00	2.80	0.61					
6/18/03	2:00:00	2.80	0.61					
6/18/03	2:15:00	2.80	0.61					
6/18/03	2:30:00	2.80	0.61					
6/18/03	2:45:00	2.70	0.59					
6/18/03	3:00:00	2.70	0.59					
6/18/03	3:15:00	2.60	0.57					
6/18/03	3:30:00	2.60	0.57					
6/18/03	3:45:00	2.60	0.57					
6/18/03	4:00:00	2.60	0.57					
6/18/03	4:15:00	2.50	0.54					
6/18/03	4:30:00	2.50	0.54					
6/18/03	4:45:00	2.50	0.54					
6/18/03	5:00:00	2.40	0.52					
6/18/03	5:15:00	2.50	0.54					
6/18/03	5:30:00	2.40	0.52					
6/18/03	5:45:00	2.40	0.52					
6/18/03	6:00:00	2.30	0.50					
6/18/03	6:15:00	2.30	0.50					
6/18/03	6:30:00	2.30	0.50					
6/18/03	6:45:00	2.30	0.50					
6/18/03	7:00:00	2.20	0.48					
6/18/03	7:15:00	2.20	0.48					
6/18/03	7:30:00	2.20	0.48					
6/18/03	7:45:00	2.10	0.46					
6/18/03	8:00:00	2.10	0.46					
6/18/03	8:15:00	2.20	0.48					
6/18/03	8:30:00	2.20	0.48					
6/18/03	8:45:00	2.20	0.48					
6/18/03	9:00:00	2.20	0.48					
6/18/03	9:15:00	2.20	0.48					
6/18/03	9:30:00	2.20	0.48	BBf-4	6/18/03	930	2.65	5.54
6/18/03	9:45:00	2.30	0.50					
6/18/03	10:00:00	2.20	0.48					

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
6/18/03	10:15:00	2.20	0.48					
6/18/03	10:30:00	2.50	0.54					
6/18/03	10:45:00	2.10	0.46					
6/18/03	11:00:00	2.00	0.43					
6/18/03	11:15:00	2.00	0.43					
6/18/03	11:30:00	2.20	0.48					
6/18/03	11:45:00	2.10	0.46					
6/18/03	12:00:00	2.00	0.43					
6/18/03	12:15:00	2.10	0.46					
6/18/03	12:30:00	2.10	0.46					
6/18/03	12:45:00	2.30	0.50					
6/18/03	13:00:00	2.30	0.50					
6/18/03	13:15:00	2.50	0.54					
6/18/03	13:30:00	2.40	0.52					
6/18/03	13:45:00	2.50	0.54					
6/18/03	14:00:00	2.50	0.54					
6/18/03	14:15:00	2.40	0.52					
6/18/03	14:30:00	2.60	0.57					
6/18/03	14:45:00	2.60	0.57					
6/18/03	15:00:00	2.70	0.59					
6/18/03	15:15:00	2.60	0.57					
6/18/03	15:30:00	2.90	0.63					
6/18/03	15:45:00	2.60	0.57					
6/18/03	16:00:00	2.80	0.61					
6/18/03	16:15:00	2.60	0.57					
6/18/03	16:30:00	3.50	0.76					
6/18/03	16:45:00	2.50	0.54					
6/18/03	17:00:00	3.20	0.70					
6/18/03	17:15:00	2.90	0.63					
6/18/03	17:30:00	3.30	0.72					
6/18/03	17:45:00	3.20	0.70					
6/18/03	18:00:00	3.50	0.76					
6/18/03	18:15:00	3.20	0.70					
6/18/03	18:30:00	4.20	0.91					
6/18/03	18:45:00	3.10	0.67					
6/18/03	19:00:00	4.20	0.91					
6/18/03	19:15:00	4.20	0.91					
6/18/03	19:30:00	4.60	1.00					
6/18/03	19:45:00	4.40	0.96					
6/18/03	20:00:00	4.20	0.91					
6/18/03	20:15:00	4.10	0.89					
6/18/03	20:30:00	4.00	0.87					
6/18/03	20:45:00	3.90	0.85					

Table H3.4.
Survey Station BBf-3

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
6/18/03	21:00:00	3.90	0.85					
6/18/03	21:15:00	3.80	0.83					
6/18/03	21:30:00	3.70	0.80					
6/18/03	21:45:00	3.70	0.80					
6/18/03	22:00:00	3.60	0.78					
6/18/03	22:15:00	3.10	0.67					
6/18/03	22:30:00	3.20	0.70					
6/18/03	22:45:00	3.30	0.72					
6/18/03	23:00:00	3.40	0.74					
6/18/03	23:15:00	3.10	0.67					
6/18/03	23:30:00	3.40	0.74					
6/18/03	23:45:00	3.30	0.72					
6/19/03	0:00:00	3.10	0.67					
	MAX =	4.60						

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Table H3.4.
Survey Station BBf-3

Table H3.5.Continuous Data Used for BBf-5.

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
6/18/03	0:00:00	3.00	0.71					
6/18/03	0:15:00	3.00	0.71					
6/18/03	0:30:00	3.00	0.71					
6/18/03	0:45:00	2.90	0.69					
6/18/03	1:00:00	2.90	0.69					
6/18/03	1:15:00	2.70	0.64					
6/18/03	1:30:00	2.90	0.69					
6/18/03	1:45:00	2.80	0.67					
6/18/03	2:00:00	2.80	0.67					
6/18/03	2:15:00	2.70	0.64					
6/18/03	2:30:00	2.70	0.64					
6/18/03	2:45:00	2.70	0.64					
6/18/03	3:00:00	2.70	0.64					
6/18/03	3:15:00	2.80	0.67					
6/18/03	3:30:00	2.70	0.64					
6/18/03	3:45:00	2.60	0.62					
6/18/03	4:00:00	2.60	0.62					
6/18/03	4:15:00	2.60	0.62					
6/18/03	4:30:00	2.60	0.62					
6/18/03	4:45:00	2.50	0.60					
6/18/03	5:00:00	2.50	0.60					
6/18/03	5:15:00	2.50	0.60					
6/18/03	5:30:00	2.50	0.60					
6/18/03	5:45:00	2.40	0.57					
6/18/03	6:00:00	2.40	0.57					
6/18/03	6:15:00	2.30	0.55					
6/18/03	6:30:00	2.30	0.55					
6/18/03	6:45:00	2.40	0.57					
6/18/03	7:00:00	2.30	0.55					
6/18/03	7:15:00	2.30	0.55					
6/18/03	7:30:00	2.30	0.55					
6/18/03	7:45:00	2.30	0.55					
6/18/03	8:00:00	2.40	0.57					
6/18/03	8:15:00	2.30	0.55					
6/18/03	8:30:00	2.30	0.55					
6/18/03	8:45:00	2.40	0.57					
6/18/03	9:00:00	2.50	0.60					
6/18/03	9:15:00	2.60	0.62					
6/18/03	9:30:00	2.50	0.60					
6/18/03	9:45:00	2.70	0.64					
6/18/03	10:00:00	2.60	0.62					

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
6/18/03	10:15:00	2.40	0.57					
6/18/03	10:30:00	2.40	0.57					
6/18/03	10:45:00	2.30	0.55					
6/18/03	11:00:00	2.70	0.64					
6/18/03	11:15:00	2.40	0.57					
6/18/03	11:30:00	2.00	0.48					
6/18/03	11:45:00	1.80	0.43					
6/18/03	12:00:00	1.80	0.43					
6/18/03	12:15:00	2.20	0.52					
6/18/03	12:30:00	2.10	0.50					
6/18/03	12:45:00	1.80	0.43					
6/18/03	13:00:00	2.10	0.50					
6/18/03	13:15:00	2.40	0.57					
6/18/03	13:30:00	2.30	0.55					
6/18/03	13:45:00	2.20	0.52					
6/18/03	14:00:00	2.50	0.60					
6/18/03	14:15:00	2.90	0.69					
6/18/03	14:30:00	2.50	0.60					
6/18/03	14:45:00	2.50	0.60					
6/18/03	15:00:00	2.90	0.69					
6/18/03	15:15:00	2.70	0.64					
6/18/03	15:30:00	2.20	0.52					
6/18/03	15:45:00	3.00	0.71					
6/18/03	16:00:00	3.10	0.74					
6/18/03	16:15:00	3.20	0.76					
6/18/03	16:30:00	3.10	0.74					
6/18/03	16:45:00	3.00	0.71					
6/18/03	17:00:00	2.90	0.69					
6/18/03	17:15:00	2.80	0.67					
6/18/03	17:30:00	2.90	0.69					
6/18/03	17:45:00	3.10	0.74					
6/18/03	18:00:00	3.40	0.81					
6/18/03	18:15:00	3.40	0.81					
6/18/03	18:30:00	3.20	0.76					
6/18/03	18:45:00	3.50	0.83					
6/18/03	19:00:00	4.00	0.95					
6/18/03	19:15:00	4.00	0.95					
6/18/03	19:30:00	4.10	0.98					
6/18/03	19:45:00	4.20	1.00					
6/18/03	20:00:00	4.10	0.98					
6/18/03	20:15:00	4.00	0.95					
6/18/03	20:30:00	4.00	0.95					
6/18/03	20:45:00	3.80	0.90					

Table H3.5.
Survey Station BBf-5

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
6/18/03	21:00:00	3.80	0.90					
6/18/03	21:15:00	3.60	0.86					
6/18/03	21:30:00	3.50	0.83					
6/18/03	21:45:00	3.50	0.83					
6/18/03	22:00:00	3.50	0.83					
6/18/03	22:15:00	3.50	0.83					
6/18/03	22:30:00	3.40	0.81					
6/18/03	22:45:00	3.40	0.81					
6/18/03	23:00:00	3.40	0.81					
6/18/03	23:15:00	3.40	0.81					
6/18/03	23:30:00	3.30	0.79					
6/18/03	23:45:00	3.30	0.79					
6/19/03	0:00:00	3.30	0.79					
	MAX =	4.20						

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Table H3.5.
Survey Station BBf-5

Table H3.6.Continuous Data Used for GB-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
6/18/03	0:00:00	1.90	0.61					
6/18/03	0:15:00	1.80	0.58					
6/18/03	0:30:00	1.80	0.58					
6/18/03	0:45:00	1.80	0.58					
6/18/03	1:00:00	1.70	0.55					
6/18/03	1:15:00	1.70	0.55					
6/18/03	1:30:00	1.70	0.55					
6/18/03	1:45:00	1.70	0.55					
6/18/03	2:00:00	1.70	0.55					
6/18/03	2:15:00	1.70	0.55					
6/18/03	2:30:00	1.70	0.55					
6/18/03	2:45:00	1.70	0.55					
6/18/03	3:00:00	1.70	0.55					
6/18/03	3:15:00	1.70	0.55					
6/18/03	3:30:00	1.80	0.58					
6/18/03	3:45:00	1.80	0.58					
6/18/03	4:00:00	1.80	0.58					
6/18/03	4:15:00	1.80	0.58					
6/18/03	4:30:00	1.90	0.61					
6/18/03	4:45:00	1.90	0.61					
6/18/03	5:00:00	1.90	0.61					
6/18/03	5:15:00	1.90	0.61					
6/18/03	5:30:00	2.00	0.65					
6/18/03	5:45:00	2.00	0.65					
6/18/03	6:00:00	2.00	0.65					
6/18/03	6:15:00	2.00	0.65					
6/18/03	6:30:00	2.00	0.65					
6/18/03	6:45:00	2.00	0.65					
6/18/03	7:00:00	2.00	0.65					
6/18/03	7:15:00	2.00	0.65					
6/18/03	7:30:00	2.10	0.68					
6/18/03	7:45:00	2.10	0.68					
6/18/03	8:00:00	2.10	0.68					
6/18/03	8:15:00	2.10	0.68					
6/18/03	8:30:00	2.10	0.68					
6/18/03	8:45:00	2.10	0.68					
6/18/03	9:00:00	2.20	0.71					
6/18/03	9:15:00	2.20	0.71					
6/18/03	9:30:00	2.20	0.71					
6/18/03	9:45:00	2.30	0.74					
6/18/03	10:00:00	2.40	0.77					

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
6/18/03	10:15:00	2.40	0.77	GB-2	6/18/03	10:20	1.96	2.53
6/18/03	10:30:00	2.40	0.77					
6/18/03	10:45:00	2.40	0.77					
6/18/03	11:00:00	2.50	0.81					
6/18/03	11:15:00	2.60	0.84					
6/18/03	11:30:00	2.60	0.84					
6/18/03	11:45:00	2.70	0.87					
6/18/03	12:00:00	2.70	0.87					
6/18/03	12:15:00	2.70	0.87					
6/18/03	12:30:00	2.80	0.90					
6/18/03	12:45:00	2.80	0.90					
6/18/03	13:00:00	2.80	0.90					
6/18/03	13:15:00	2.90	0.94					
6/18/03	13:30:00	2.90	0.94					
6/18/03	13:45:00	3.00	0.97					
6/18/03	14:00:00	3.00	0.97					
6/18/03	14:15:00	3.00	0.97					
6/18/03	14:30:00	3.00	0.97					
6/18/03	14:45:00	3.00	0.97					
6/18/03	15:00:00	3.00	0.97					
6/18/03	15:15:00	3.10	1.00					
6/18/03	15:30:00	3.10	1.00					
6/18/03	15:45:00	3.10	1.00					
6/18/03	16:00:00	3.10	1.00					
6/18/03	16:15:00	3.10	1.00					
6/18/03	16:30:00	3.10	1.00					
6/18/03	16:45:00	3.10	1.00					
6/18/03	17:00:00	3.10	1.00					
6/18/03	17:15:00	3.10	1.00					
6/18/03	17:30:00	3.00	0.97					
6/18/03	17:45:00	3.00	0.97					
6/18/03	18:00:00	2.90	0.94					
6/18/03	18:15:00	2.90	0.94					
6/18/03	18:30:00	2.90	0.94					
6/18/03	18:45:00	2.80	0.90					
6/18/03	19:00:00	2.80	0.90					
6/18/03	19:15:00	2.80	0.90					
6/18/03	19:30:00	2.70	0.87					
6/18/03	19:45:00	2.70	0.87					
6/18/03	20:00:00	2.70	0.87					
6/18/03	20:15:00	2.60	0.84					
6/18/03	20:30:00	2.60	0.84					
6/18/03	20:45:00	2.60	0.84					

Table H3.6.
Survey Station GB-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
6/18/03	21:00:00	2.50	0.81					
6/18/03	21:15:00	2.50	0.81					
6/18/03	21:30:00	2.50	0.81					
6/18/03	21:45:00	2.40	0.77					
6/18/03	22:00:00	2.40	0.77					
6/18/03	22:15:00	2.40	0.77					
6/18/03	22:30:00	2.30	0.74					
6/18/03	22:45:00	2.30	0.74					
6/18/03	23:00:00	2.30	0.74					
6/18/03	23:15:00	2.30	0.74					
6/18/03	23:30:00	2.30	0.74					
6/18/03	23:45:00	2.20	0.71					
6/19/03	0:00:00	2.20	0.71					
	MAX =	3.10						

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Table H3.6.
Survey Station GB-1

Table H3.7.Continuous Data Used for GB-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
6/18/03	0:00:00	2.10	0.75					
6/18/03	0:15:00	2.10	0.75					
6/18/03	0:30:00	2.10	0.75					
6/18/03	0:45:00	2.10	0.75					
6/18/03	1:00:00	2.10	0.75					
6/18/03	1:15:00	2.10	0.75					
6/18/03	1:30:00	2.10	0.75					
6/18/03	1:45:00	2.10	0.75					
6/18/03	2:00:00	2.10	0.75					
6/18/03	2:15:00	2.10	0.75					
6/18/03	2:30:00	2.10	0.75					
6/18/03	2:45:00	2.10	0.75					
6/18/03	3:00:00	2.10	0.75					
6/18/03	3:15:00	2.10	0.75					
6/18/03	3:30:00	2.10	0.75					
6/18/03	3:45:00	2.10	0.75					
6/18/03	4:00:00	2.10	0.75					
6/18/03	4:15:00	2.10	0.75					
6/18/03	4:30:00	2.10	0.75					
6/18/03	4:45:00	2.00	0.71					
6/18/03	5:00:00	2.00	0.71					
6/18/03	5:15:00	2.00	0.71					
6/18/03	5:30:00	2.00	0.71					
6/18/03	5:45:00	2.00	0.71					
6/18/03	6:00:00	2.00	0.71					
6/18/03	6:15:00	2.00	0.71					
6/18/03	6:30:00	2.00	0.71					
6/18/03	6:45:00	1.90	0.68					
6/18/03	7:00:00	1.90	0.68					
6/18/03	7:15:00	1.90	0.68					
6/18/03	7:30:00	1.90	0.68					
6/18/03	7:45:00	1.90	0.68					
6/18/03	8:00:00	1.90	0.68					
6/18/03	8:15:00	1.80	0.64					
6/18/03	8:30:00	1.80	0.64					
6/18/03	8:45:00	1.80	0.64					
6/18/03	9:00:00	1.80	0.64					
6/18/03	9:15:00	1.80	0.64					
6/18/03	9:30:00	1.70	0.61					
6/18/03	9:45:00	1.70	0.61					
6/18/03	10:00:00	1.70	0.61					

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
6/18/03	10:15:00	1.50	0.54					
6/18/03	10:30:00	1.40	0.50					
6/18/03	10:45:00	1.30	0.46	GB-3	6/18/03	10:50	2.43	5.233846
6/18/03	11:00:00	1.40	0.50					
6/18/03	11:15:00	1.30	0.46	GB-5	6/1/8/03	11:20	1.96	4.221538
6/18/03	11:30:00	1.30	0.46					
6/18/03	11:45:00	1.60	0.57					
6/18/03	12:00:00	1.70	0.61					
6/18/03	12:15:00	1.70	0.61					
6/18/03	12:30:00	1.70	0.61					
6/18/03	12:45:00	1.80	0.64					
6/18/03	13:00:00	2.00	0.71					
6/18/03	13:15:00	2.10	0.75					
6/18/03	13:30:00	2.00	0.71					
6/18/03	13:45:00	2.00	0.71					
6/18/03	14:00:00	2.00	0.71					
6/18/03	14:15:00	2.30	0.82					
6/18/03	14:30:00	2.30	0.82					
6/18/03	14:45:00	2.50	0.89					
6/18/03	15:00:00	2.60	0.93					
6/18/03	15:15:00	2.30	0.82					
6/18/03	15:30:00	2.60	0.93					
6/18/03	15:45:00	2.60	0.93					
6/18/03	16:00:00	2.40	0.86					
6/18/03	16:15:00	2.70	0.96					
6/18/03	16:30:00	2.60	0.93					
6/18/03	16:45:00	2.80	1.00					
6/18/03	17:00:00	2.80	1.00					
6/18/03	17:15:00	2.60	0.93					
6/18/03	17:30:00	2.70	0.96					
6/18/03	17:45:00	2.60	0.93					
6/18/03	18:00:00	2.60	0.93					
6/18/03	18:15:00	2.50	0.89					
6/18/03	18:30:00	2.60	0.93					
6/18/03	18:45:00	2.50	0.89					
6/18/03	19:00:00	2.40	0.86					
6/18/03	19:15:00	2.40	0.86					
6/18/03	19:30:00	2.30	0.82					
6/18/03	19:45:00	2.40	0.86					
6/18/03	20:00:00	2.30	0.82					
6/18/03	20:15:00	2.40	0.86					
6/18/03	20:30:00	2.30	0.82					
6/18/03	20:45:00	2.30	0.82					

Table H3.7.
Survey Station GB-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
6/18/03	21:00:00	2.20	0.79					
6/18/03	21:15:00	2.20	0.79					
6/18/03	21:30:00	2.30	0.82					
6/18/03	21:45:00	2.30	0.82					
6/18/03	22:00:00	2.40	0.86					
6/18/03	22:15:00	2.40	0.86					
6/18/03	22:30:00	2.40	0.86					
6/18/03	22:45:00	2.40	0.86					
6/18/03	23:00:00	2.40	0.86					
6/18/03	23:15:00	2.40	0.86					
6/18/03	23:30:00	2.40	0.86					
6/18/03	23:45:00	2.40	0.86					
6/19/03	0:00:00	2.30	0.82					
	MAX =	2.80						

FILE: R:\PROJECTS\3110-051\BEOUF PDF\DO MAX CALCULATIONS-BOEUF.XLS

Table H3.7.
Survey Station GB-4

Table H3.8.Continuous Data Used for GB-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
6/18/03	0:00:00	2.10	0.75					
6/18/03	0:15:00	2.10	0.75					
6/18/03	0:30:00	2.10	0.75					
6/18/03	0:45:00	2.10	0.75					
6/18/03	1:00:00	2.10	0.75					
6/18/03	1:15:00	2.10	0.75					
6/18/03	1:30:00	2.10	0.75					
6/18/03	1:45:00	2.10	0.75					
6/18/03	2:00:00	2.10	0.75					
6/18/03	2:15:00	2.10	0.75					
6/18/03	2:30:00	2.10	0.75					
6/18/03	2:45:00	2.10	0.75					
6/18/03	3:00:00	2.10	0.75					
6/18/03	3:15:00	2.10	0.75					
6/18/03	3:30:00	2.10	0.75					
6/18/03	3:45:00	2.10	0.75					
6/18/03	4:00:00	2.10	0.75					
6/18/03	4:15:00	2.10	0.75					
6/18/03	4:30:00	2.10	0.75					
6/18/03	4:45:00	2.00	0.71					
6/18/03	5:00:00	2.00	0.71					
6/18/03	5:15:00	2.00	0.71					
6/18/03	5:30:00	2.00	0.71					
6/18/03	5:45:00	2.00	0.71					
6/18/03	6:00:00	2.00	0.71					
6/18/03	6:15:00	2.00	0.71					
6/18/03	6:30:00	2.00	0.71					
6/18/03	6:45:00	1.90	0.68					
6/18/03	7:00:00	1.90	0.68					
6/18/03	7:15:00	1.90	0.68					
6/18/03	7:30:00	1.90	0.68					
6/18/03	7:45:00	1.90	0.68					
6/18/03	8:00:00	1.90	0.68					
6/18/03	8:15:00	1.80	0.64					
6/18/03	8:30:00	1.80	0.64					
6/18/03	8:45:00	1.80	0.64					
6/18/03	9:00:00	1.80	0.64					
6/18/03	9:15:00	1.80	0.64					
6/18/03	9:30:00	1.70	0.61					
6/18/03	9:45:00	1.70	0.61					
6/18/03	10:00:00	1.70	0.61					

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
6/18/03	10:15:00	1.50	0.54					
6/18/03	10:30:00	1.40	0.50					
6/18/03	10:45:00	1.30	0.46					
6/18/03	11:00:00	1.40	0.50					
6/18/03	11:15:00	1.30	0.46					
6/18/03	11:30:00	1.30	0.46					
6/18/03	11:45:00	1.60	0.57					
6/18/03	12:00:00	1.70	0.61					
6/18/03	12:15:00	1.70	0.61					
6/18/03	12:30:00	1.70	0.61	GB-7	6/18/03	12:30	2.95	4.86
6/18/03	12:45:00	1.80	0.64					
6/18/03	13:00:00	2.00	0.71					
6/18/03	13:15:00	2.10	0.75					
6/18/03	13:30:00	2.00	0.71					
6/18/03	13:45:00	2.00	0.71					
6/18/03	14:00:00	2.00	0.71					
6/18/03	14:15:00	2.30	0.82					
6/18/03	14:30:00	2.30	0.82					
6/18/03	14:45:00	2.50	0.89					
6/18/03	15:00:00	2.60	0.93					
6/18/03	15:15:00	2.30	0.82					
6/18/03	15:30:00	2.60	0.93					
6/18/03	15:45:00	2.60	0.93					
6/18/03	16:00:00	2.40	0.86					
6/18/03	16:15:00	2.70	0.96					
6/18/03	16:30:00	2.60	0.93					
6/18/03	16:45:00	2.80	1.00					
6/18/03	17:00:00	2.80	1.00					
6/18/03	17:15:00	2.60	0.93					
6/18/03	17:30:00	2.70	0.96					
6/18/03	17:45:00	2.60	0.93					
6/18/03	18:00:00	2.60	0.93					
6/18/03	18:15:00	2.50	0.89					
6/18/03	18:30:00	2.60	0.93					
6/18/03	18:45:00	2.50	0.89					
6/18/03	19:00:00	2.40	0.86					
6/18/03	19:15:00	2.40	0.86					
6/18/03	19:30:00	2.30	0.82					
6/18/03	19:45:00	2.40	0.86					
6/18/03	20:00:00	2.30	0.82					
6/18/03	20:15:00	2.40	0.86					
6/18/03	20:30:00	2.30	0.82					
6/18/03	20:45:00	2.30	0.82					

Table H3.8.
Survey Station GB-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
6/18/03	21:00:00	2.20	0.79					
6/18/03	21:15:00	2.20	0.79					
6/18/03	21:30:00	2.30	0.82					
6/18/03	21:45:00	2.30	0.82					
6/18/03	22:00:00	2.40	0.86					
6/18/03	22:15:00	2.40	0.86					
6/18/03	22:30:00	2.40	0.86					
6/18/03	22:45:00	2.40	0.86					
6/18/03	23:00:00	2.40	0.86					
6/18/03	23:15:00	2.40	0.86					
6/18/03	23:30:00	2.40	0.86					
6/18/03	23:45:00	2.40	0.86					
6/19/03	0:00:00	2.30	0.82					
	MAX =	2.80						

FILE: R:\PROJECTS\3110-051\BEOUF PDF\DO MAX CALCULATIONS-BOEUF.XLS

Table H3.8.
Survey Station GB-6

Table H3.9.Continuous Data Used for HC-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
6/18/03	0:00:00	2.10	0.75					
6/18/03	0:15:00	2.10	0.75					
6/18/03	0:30:00	2.10	0.75					
6/18/03	0:45:00	2.10	0.75					
6/18/03	1:00:00	2.10	0.75					
6/18/03	1:15:00	2.10	0.75					
6/18/03	1:30:00	2.10	0.75					
6/18/03	1:45:00	2.10	0.75					
6/18/03	2:00:00	2.10	0.75					
6/18/03	2:15:00	2.10	0.75					
6/18/03	2:30:00	2.10	0.75					
6/18/03	2:45:00	2.10	0.75					
6/18/03	3:00:00	2.10	0.75					
6/18/03	3:15:00	2.10	0.75					
6/18/03	3:30:00	2.10	0.75					
6/18/03	3:45:00	2.10	0.75					
6/18/03	4:00:00	2.10	0.75					
6/18/03	4:15:00	2.10	0.75					
6/18/03	4:30:00	2.10	0.75					
6/18/03	4:45:00	2.00	0.71					
6/18/03	5:00:00	2.00	0.71					
6/18/03	5:15:00	2.00	0.71					
6/18/03	5:30:00	2.00	0.71					
6/18/03	5:45:00	2.00	0.71					
6/18/03	6:00:00	2.00	0.71					
6/18/03	6:15:00	2.00	0.71					
6/18/03	6:30:00	2.00	0.71					
6/18/03	6:45:00	1.90	0.68					
6/18/03	7:00:00	1.90	0.68					
6/18/03	7:15:00	1.90	0.68					
6/18/03	7:30:00	1.90	0.68					
6/18/03	7:45:00	1.90	0.68					
6/18/03	8:00:00	1.90	0.68					
6/18/03	8:15:00	1.80	0.64					
6/18/03	8:30:00	1.80	0.64					
6/18/03	8:45:00	1.80	0.64					
6/18/03	9:00:00	1.80	0.64					
6/18/03	9:15:00	1.80	0.64					
6/18/03	9:30:00	1.70	0.61					
6/18/03	9:45:00	1.70	0.61					
6/18/03	10:00:00	1.70	0.61					
6/18/03	10:15:00	1.50	0.54	HC-3	6/18/03	10:10	2.77	5.17
6/18/03	10:30:00	1.40	0.50					

Continuous Monitoring Data			
DATE	TIME	DO (mg/L)	DO as fraction of daily MAX
6/18/03	10:45:00	1.30	0.46
6/18/03	11:00:00	1.40	0.50
6/18/03	11:15:00	1.30	0.46
6/18/03	11:30:00	1.30	0.46
6/18/03	11:45:00	1.60	0.57
6/18/03	12:00:00	1.70	0.61
6/18/03	12:15:00	1.70	0.61
6/18/03	12:30:00	1.70	0.61
6/18/03	12:45:00	1.80	0.64
6/18/03	13:00:00	2.00	0.71
6/18/03	13:15:00	2.10	0.75
6/18/03	13:30:00	2.00	0.71
6/18/03	13:45:00	2.00	0.71
6/18/03	14:00:00	2.00	0.71
6/18/03	14:15:00	2.30	0.82
6/18/03	14:30:00	2.30	0.82
6/18/03	14:45:00	2.50	0.89
6/18/03	15:00:00	2.60	0.93
6/18/03	15:15:00	2.30	0.82
6/18/03	15:30:00	2.60	0.93
6/18/03	15:45:00	2.60	0.93
6/18/03	16:00:00	2.40	0.86
6/18/03	16:15:00	2.70	0.96
6/18/03	16:30:00	2.60	0.93
6/18/03	16:45:00	2.80	1.00
6/18/03	17:00:00	2.80	1.00
6/18/03	17:15:00	2.60	0.93
6/18/03	17:30:00	2.70	0.96
6/18/03	17:45:00	2.60	0.93
6/18/03	18:00:00	2.60	0.93
6/18/03	18:15:00	2.50	0.89
6/18/03	18:30:00	2.60	0.93
6/18/03	18:45:00	2.50	0.89
6/18/03	19:00:00	2.40	0.86
6/18/03	19:15:00	2.40	0.86
6/18/03	19:30:00	2.30	0.82
6/18/03	19:45:00	2.40	0.86
6/18/03	20:00:00	2.30	0.82
6/18/03	20:15:00	2.40	0.86
6/18/03	20:30:00	2.30	0.82
6/18/03	20:45:00	2.30	0.82
6/18/03	21:00:00	2.20	0.79
6/18/03	21:15:00	2.20	0.79
6/18/03	21:30:00	2.30	0.82
6/18/03	21:45:00	2.30	0.82

Instantaneous Data				
Station	DATE	TIME	Measured DO (mg/L)	Estimated Daily MAX DO (mg/L)at sampling location
HC-1	6/18/03	10:40	1.82	3.92

Table H3.9.
Survey Station HC-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
6/18/03	22:00:00	2.40	0.86					
6/18/03	22:15:00	2.40	0.86					
6/18/03	22:30:00	2.40	0.86					
6/18/03	22:45:00	2.40	0.86					
6/18/03	23:00:00	2.40	0.86					
6/18/03	23:15:00	2.40	0.86					
6/18/03	23:30:00	2.40	0.86					
6/18/03	23:45:00	2.40	0.86					
6/19/03	0:00:00	2.30	0.82					
	MAX =	2.80						

FILE: R:\PROJECTS\3110-051\BEOUF PDF\DO MAX CALCULATIONS-BOEUF.XLS

Table H3.9.
Survey Station HC-2

Table H3.10.Continuous Data Used for BO-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
6/18/03	0:00:00	2.40	0.89					
6/18/03	0:15:00	2.40	0.89					
6/18/03	0:30:00	2.30	0.85					
6/18/03	0:45:00	2.30	0.85					
6/18/03	1:00:00	2.20	0.81					
6/18/03	1:15:00	2.20	0.81					
6/18/03	1:30:00	2.20	0.81					
6/18/03	1:45:00	2.20	0.81					
6/18/03	2:00:00	2.10	0.78					
6/18/03	2:15:00	2.10	0.78					
6/18/03	2:30:00	2.10	0.78					
6/18/03	2:45:00	2.00	0.74					
6/18/03	3:00:00	2.00	0.74					
6/18/03	3:15:00	1.90	0.70					
6/18/03	3:30:00	1.90	0.70					
6/18/03	3:45:00	1.90	0.70					
6/18/03	4:00:00	1.90	0.70					
6/18/03	4:15:00	1.80	0.67					
6/18/03	4:30:00	1.80	0.67					
6/18/03	4:45:00	1.70	0.63					
6/18/03	5:00:00	1.70	0.63					
6/18/03	5:15:00	1.70	0.63					
6/18/03	5:30:00	1.70	0.63					
6/18/03	5:45:00	1.70	0.63					
6/18/03	6:00:00	1.60	0.59					
6/18/03	6:15:00	1.60	0.59					
6/18/03	6:30:00	1.60	0.59					
6/18/03	6:45:00	1.60	0.59					
6/18/03	7:00:00	1.50	0.56					
6/18/03	7:15:00	1.50	0.56					
6/18/03	7:30:00	1.50	0.56					
6/18/03	7:45:00	1.60	0.59					
6/18/03	8:00:00	1.50	0.56					
6/18/03	8:15:00	1.50	0.56					
6/18/03	8:30:00	1.40	0.52					
6/18/03	8:45:00	1.40	0.52					
6/18/03	9:00:00	1.40	0.52					
6/18/03	9:15:00	1.50	0.56					
6/18/03	9:30:00	1.50	0.56					
6/18/03	9:45:00	1.40	0.52					
6/18/03	10:00:00	1.40	0.52					

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
6/18/03	10:15:00	1.40	0.52					
6/18/03	10:30:00	1.40	0.52					
6/18/03	10:45:00	1.30	0.48					
6/18/03	11:00:00	1.30	0.48					
6/18/03	11:15:00	1.30	0.48					
6/18/03	11:30:00	1.30	0.48					
6/18/03	11:45:00	1.60	0.59					
6/18/03	12:00:00	1.40	0.52					
6/18/03	12:15:00	1.50	0.56					
6/18/03	12:30:00	1.60	0.59					
6/18/03	12:45:00	1.50	0.56					
6/18/03	13:00:00	1.40	0.52					
6/18/03	13:15:00	1.40	0.52					
6/18/03	13:30:00	1.70	0.63					
6/18/03	13:45:00	1.60	0.59					
6/18/03	14:00:00	1.90	0.70					
6/18/03	14:15:00	1.60	0.59					
6/18/03	14:30:00	1.50	0.56					
6/18/03	14:45:00	1.70	0.63					
6/18/03	15:00:00	1.80	0.67					
6/18/03	15:15:00	1.60	0.59					
6/18/03	15:30:00	1.90	0.70					
6/18/03	15:45:00	2.30	0.85					
6/18/03	16:00:00	1.60	0.59					
6/18/03	16:15:00	2.00	0.74					
6/18/03	16:30:00	1.70	0.63					
6/18/03	16:45:00	1.80	0.67					
6/18/03	17:00:00	2.20	0.81					
6/18/03	17:15:00	2.00	0.74					
6/18/03	17:30:00	2.10	0.78					
6/18/03	17:45:00	2.20	0.81					
6/18/03	18:00:00	2.10	0.78					
6/18/03	18:15:00	2.10	0.78					
6/18/03	18:30:00	2.10	0.78					
6/18/03	18:45:00	2.10	0.78					
6/18/03	19:00:00	2.10	0.78					
6/18/03	19:15:00	2.30	0.85					
6/18/03	19:30:00	2.10	0.78					
6/18/03	19:45:00	2.20	0.81					
6/18/03	20:00:00	2.70	1.00					
6/18/03	20:15:00	2.20	0.81					
6/18/03	20:30:00	2.50	0.93					
6/18/03	20:45:00	2.50	0.93					

Table H3.10.
Survey Station BO-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
6/18/03	21:00:00	2.60	0.96					
6/18/03	21:15:00	2.40	0.89					
6/18/03	21:30:00	2.40	0.89					
6/18/03	21:45:00	2.50	0.93					
6/18/03	22:00:00	2.40	0.89					
6/18/03	22:15:00	2.40	0.89					
6/18/03	22:30:00	2.40	0.89					
6/18/03	22:45:00	2.30	0.85					
6/18/03	23:00:00	2.30	0.85					
6/18/03	23:15:00	2.20	0.81					
6/18/03	23:30:00	2.20	0.81					
6/18/03	23:45:00	2.10	0.78					
6/19/03	0:00:00	2.10	0.78					
	MAX =	2.70						

FILE: R:\PROJECTS\3110-051\BEOUF PDF\DO MAX CALCULATIONS-BOEUF.XLS

Table H3.10.
Survey Station BO-1

Table H3.11.Continuous Data Used for BoC-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
6/18/03	0:00:00	3.70	1.00					
6/18/03	0:15:00	3.50	0.95					
6/18/03	0:30:00	3.50	0.95					
6/18/03	0:45:00	3.40	0.92					
6/18/03	1:00:00	3.40	0.92					
6/18/03	1:15:00	3.30	0.89					
6/18/03	1:30:00	3.30	0.89					
6/18/03	1:45:00	3.30	0.89					
6/18/03	2:00:00	3.00	0.81					
6/18/03	2:15:00	3.10	0.84					
6/18/03	2:30:00	3.00	0.81					
6/18/03	2:45:00	3.00	0.81					
6/18/03	3:00:00	2.90	0.78					
6/18/03	3:15:00	2.90	0.78					
6/18/03	3:30:00	2.90	0.78					
6/18/03	3:45:00	2.80	0.76					
6/18/03	4:00:00	2.60	0.70					
6/18/03	4:15:00	2.60	0.70					
6/18/03	4:30:00	2.50	0.68					
6/18/03	4:45:00	2.50	0.68					
6/18/03	5:00:00	2.50	0.68					
6/18/03	5:15:00	2.40	0.65					
6/18/03	5:30:00	2.40	0.65					
6/18/03	5:45:00	2.30	0.62					
6/18/03	6:00:00	2.20	0.59					
6/18/03	6:15:00	2.20	0.59					
6/18/03	6:30:00	2.10	0.57					
6/18/03	6:45:00	2.00	0.54					
6/18/03	7:00:00	2.10	0.57					
6/18/03	7:15:00	1.80	0.49					
6/18/03	7:30:00	2.00	0.54					
6/18/03	7:45:00	1.90	0.51					
6/18/03	8:00:00	1.90	0.51					
6/18/03	8:15:00	1.90	0.51					
6/18/03	8:30:00	1.70	0.46					
6/18/03	8:45:00	1.60	0.43					
6/18/03	9:00:00	1.70	0.46					
6/18/03	9:15:00	1.60	0.43					
6/18/03	9:30:00	1.60	0.43					
6/18/03	9:45:00	1.50	0.41					
6/18/03	10:00:00	1.50	0.41					

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
6/18/03	10:15:00	1.50	0.41					
6/18/03	10:30:00	1.60	0.43					
6/18/03	10:45:00	1.60	0.43					
6/18/03	11:00:00	1.60	0.43					
6/18/03	11:15:00	1.90	0.51					
6/18/03	11:30:00	1.50	0.41					
6/18/03	11:45:00	1.70	0.46					
6/18/03	12:00:00	1.90	0.51					
6/18/03	12:15:00	1.70	0.46					
6/18/03	12:30:00	1.90	0.51					
6/18/03	12:45:00	1.90	0.51					
6/18/03	13:00:00	1.90	0.51					
6/18/03	13:15:00	1.80	0.49					
6/18/03	13:30:00	1.90	0.51					
6/18/03	13:45:00	2.20	0.59					
6/18/03	14:00:00	1.80	0.49					
6/18/03	14:15:00	1.70	0.46					
6/18/03	14:30:00	2.10	0.57					
6/18/03	14:45:00	1.60	0.43					
6/18/03	15:00:00	2.10	0.57					
6/18/03	15:15:00	1.80	0.49					
6/18/03	15:30:00	1.90	0.51					
6/18/03	15:45:00	2.00	0.54					
6/18/03	16:00:00	1.80	0.49					
6/18/03	16:15:00	1.70	0.46					
6/18/03	16:30:00	2.00	0.54					
6/18/03	16:45:00	2.30	0.62					
6/18/03	17:00:00	1.80	0.49					
6/18/03	17:15:00	2.50	0.68					
6/18/03	17:30:00	2.30	0.62					
6/18/03	17:45:00	2.40	0.65					
6/18/03	18:00:00	2.50	0.68					
6/18/03	18:15:00	2.00	0.54					
6/18/03	18:30:00	2.00	0.54					
6/18/03	18:45:00	1.70	0.46					
6/18/03	19:00:00	2.80	0.76					
6/18/03	19:15:00	1.90	0.51					
6/18/03	19:30:00	2.40	0.65					
6/18/03	19:45:00	2.70	0.73					
6/18/03	20:00:00	2.40	0.65					
6/18/03	20:15:00	2.80	0.76					
6/18/03	20:30:00	2.20	0.59					
6/18/03	20:45:00	2.90	0.78					

Table H3.11.
Survey Station BoC-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
6/18/03	21:00:00	2.30	0.62					
6/18/03	21:15:00	3.10	0.84					
6/18/03	21:30:00	2.90	0.78					
6/18/03	21:45:00	2.50	0.68					
6/18/03	22:00:00	2.40	0.65					
6/18/03	22:15:00	2.30	0.62					
6/18/03	22:30:00	2.60	0.70					
6/18/03	22:45:00	2.70	0.73					
6/18/03	23:00:00	1.80	0.49					
6/18/03	23:15:00	2.10	0.57					
6/18/03	23:30:00	2.60	0.70					
6/18/03	23:45:00	2.30	0.62					
6/19/03	0:00:00	3.10	0.84					
	MAX =	3.70						

FILE: R:\PROJECTS\3110-051\BEOUF PDF\DO MAX CALCULATIONS-BOEUF.XLS

Table H3.11.
Survey Station BoC-1

Table H3.12.Continuous Data Used for LPC-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
6/18/03	0:00:00	1.10	0.92					
6/18/03	0:15:00	1.00	0.83					
6/18/03	0:30:00	0.80	0.67					
6/18/03	0:45:00	0.90	0.75					
6/18/03	1:00:00	1.00	0.83					
6/18/03	1:15:00	1.00	0.83					
6/18/03	1:30:00	1.00	0.83					
6/18/03	1:45:00	1.10	0.92					
6/18/03	2:00:00	1.10	0.92					
6/18/03	2:15:00	1.10	0.92					
6/18/03	2:30:00	1.10	0.92					
6/18/03	2:45:00	1.00	0.83					
6/18/03	3:00:00	1.00	0.83					
6/18/03	3:15:00	1.00	0.83					
6/18/03	3:30:00	1.00	0.83					
6/18/03	3:45:00	1.00	0.83					
6/18/03	4:00:00	0.90	0.75					
6/18/03	4:15:00	0.80	0.67					
6/18/03	4:30:00	0.90	0.75					
6/18/03	4:45:00	0.90	0.75					
6/18/03	5:00:00	0.90	0.75					
6/18/03	5:15:00	0.80	0.67					
6/18/03	5:30:00	0.90	0.75					
6/18/03	5:45:00	0.80	0.67					
6/18/03	6:00:00	0.90	0.75					
6/18/03	6:15:00	0.90	0.75					
6/18/03	6:30:00	0.80	0.67					
6/18/03	6:45:00	0.80	0.67					
6/18/03	7:00:00	0.80	0.67					
6/18/03	7:15:00	0.80	0.67					
6/18/03	7:30:00	0.80	0.67					
6/18/03	7:45:00	0.80	0.67					
6/18/03	8:00:00	0.90	0.75					
6/18/03	8:15:00	0.90	0.75					
6/18/03	8:30:00	0.90	0.75					
6/18/03	8:45:00	0.90	0.75					
6/18/03	9:00:00	0.80	0.67					
6/18/03	9:15:00	0.90	0.75					
6/18/03	9:30:00	0.90	0.75					
6/18/03	9:45:00	0.90	0.75					
6/18/03	10:00:00	0.90	0.75					

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
6/18/03	10:15:00	0.90	0.75					
6/18/03	10:30:00	0.90	0.75					
6/18/03	10:45:00	0.90	0.75					
6/18/03	11:00:00	1.00	0.83					
6/18/03	11:15:00	1.00	0.83					
6/18/03	11:30:00	1.10	0.92					
6/18/03	11:45:00	1.20	1.00					
6/18/03	12:00:00	1.20	1.00					
6/18/03	12:15:00	1.10	0.92					
6/18/03	12:30:00	1.20	1.00					
6/18/03	12:45:00	1.10	0.92					
6/18/03	13:00:00	1.20	1.00					
6/18/03	13:15:00	0.90	0.75					
6/18/03	13:30:00	1.00	0.83					
6/18/03	13:45:00	1.00	0.83					
6/18/03	14:00:00	1.00	0.83					
6/18/03	14:15:00	1.00	0.83					
6/18/03	14:30:00	1.10	0.92					
6/18/03	14:45:00	1.00	0.83					
6/18/03	15:00:00	0.90	0.75					
6/18/03	15:15:00	0.90	0.75					
6/18/03	15:30:00	1.00	0.83					
6/18/03	15:45:00	0.90	0.75					
6/18/03	16:00:00	1.00	0.83					
6/18/03	16:15:00	0.90	0.75					
6/18/03	16:30:00	0.80	0.67					
6/18/03	16:45:00	0.80	0.67					
6/18/03	17:00:00	0.70	0.58					
6/18/03	17:15:00	0.60	0.50					
6/18/03	17:30:00	0.60	0.50					
6/18/03	17:45:00	0.60	0.50					
6/18/03	18:00:00	0.50	0.42					
6/18/03	18:15:00	0.40	0.33					
6/18/03	18:30:00	0.40	0.33					
6/18/03	18:45:00	0.40	0.33					
6/18/03	19:00:00	0.30	0.25					
6/18/03	19:15:00	0.30	0.25					
6/18/03	19:30:00	0.20	0.17					
6/18/03	19:45:00	0.20	0.17					
6/18/03	20:00:00	0.20	0.17					
6/18/03	20:15:00	0.20	0.17					
6/18/03	20:30:00	0.30	0.25					
6/18/03	20:45:00	0.20	0.17					

Table H3.12.
Survey Station LPC-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
6/18/03	21:00:00	0.20	0.17					
6/18/03	21:15:00	0.30	0.25					
6/18/03	21:30:00	0.20	0.17					
6/18/03	21:45:00	0.20	0.17					
6/18/03	22:00:00	0.20	0.17					
6/18/03	22:15:00	0.20	0.17					
6/18/03	22:30:00	0.30	0.25					
6/18/03	22:45:00	0.20	0.17					
6/18/03	23:00:00	0.20	0.17					
6/18/03	23:15:00	0.20	0.17					
6/18/03	23:30:00	0.20	0.17					
6/18/03	23:45:00	0.20	0.17					
6/19/03	0:00:00	0.20	0.17					
	MAX =	1.20						

FILE: R:\PROJECTS\3110-051\BEOUF PDF\DO MAX CALCULATIONS-BOEUF.XLS

Table H3.12.
Survey Station LPC-1

Table H3.13.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
6/18/03	0:00:00	3.20	0.52					
6/18/03	0:15:00	3.20	0.52					
6/18/03	0:30:00	3.10	0.50					
6/18/03	0:45:00	3.10	0.50					
6/18/03	1:00:00	3.10	0.50					
6/18/03	1:15:00	3.30	0.53					
6/18/03	1:30:00	3.30	0.53					
6/18/03	1:45:00	3.50	0.56					
6/18/03	2:00:00	3.40	0.55					
6/18/03	2:15:00	3.60	0.58					
6/18/03	2:30:00	3.80	0.61					
6/18/03	2:45:00	3.80	0.61					
6/18/03	3:00:00	3.70	0.60					
6/18/03	3:15:00	3.40	0.55					
6/18/03	3:30:00	3.30	0.53					
6/18/03	3:45:00	2.90	0.47					
6/18/03	4:00:00	3.00	0.48					
6/18/03	4:15:00	3.10	0.50					
6/18/03	4:30:00	3.80	0.61					
6/18/03	4:45:00	4.30	0.69					
6/18/03	5:00:00	4.60	0.74					
6/18/03	5:15:00	3.90	0.63					
6/18/03	5:30:00	4.10	0.66					
6/18/03	5:45:00	3.90	0.63					
6/18/03	6:00:00	3.70	0.60					
6/18/03	6:15:00	3.80	0.61					
6/18/03	6:30:00	3.90	0.63					
6/18/03	6:45:00	3.90	0.63					
6/18/03	7:00:00	4.00	0.65					
6/18/03	7:15:00	3.80	0.61					
6/18/03	7:30:00	3.90	0.63					
6/18/03	7:45:00	4.10	0.66					
6/18/03	8:00:00	4.00	0.65					
6/18/03	8:15:00	3.80	0.61					
6/18/03	8:30:00	3.50	0.56					
6/18/03	8:45:00	2.40	0.39					
6/18/03	9:00:00	2.30	0.37					
6/18/03	9:15:00	2.40	0.39					
6/18/03	9:30:00	2.40	0.39					
6/18/03	9:45:00	2.50	0.40					
6/18/03	10:00:00	2.20	0.35					

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
6/18/03	10:15:00	2.70	0.44					
6/18/03	10:30:00	3.60	0.58					
6/18/03	10:45:00	3.70	0.60					
6/18/03	11:00:00	3.70	0.60					
6/18/03	11:15:00	3.70	0.60					
6/18/03	11:30:00	3.60	0.58					
6/18/03	11:45:00	3.50	0.56					
6/18/03	12:00:00	3.30	0.53					
6/18/03	12:15:00	2.70	0.44					
6/18/03	12:30:00	2.80	0.45					
6/18/03	12:45:00	3.10	0.50					
6/18/03	13:00:00	3.00	0.48					
6/18/03	13:15:00	3.20	0.52					
6/18/03	13:30:00	4.00	0.65					
6/18/03	13:45:00	3.20	0.52					
6/18/03	14:00:00	3.80	0.61					
6/18/03	14:15:00	3.50	0.56					
6/18/03	14:30:00	3.70	0.60					
6/18/03	14:45:00	4.40	0.71					
6/18/03	15:00:00	4.30	0.69					
6/18/03	15:15:00	4.10	0.66					
6/18/03	15:30:00	4.20	0.68					
6/18/03	15:45:00	4.60	0.74					
6/18/03	16:00:00	4.60	0.74					
6/18/03	16:15:00	4.60	0.74					
6/18/03	16:30:00	5.30	0.85					
6/18/03	16:45:00	4.60	0.74					
6/18/03	17:00:00	5.30	0.85					
6/18/03	17:15:00	5.10	0.82					
6/18/03	17:30:00	5.30	0.85					
6/18/03	17:45:00	6.10	0.98					
6/18/03	18:00:00	6.00	0.97					
6/18/03	18:15:00	5.00	0.81					
6/18/03	18:30:00	6.20	1.00					
6/18/03	18:45:00	5.80	0.94					
6/18/03	19:00:00	2.90	0.47					
6/18/03	19:15:00	1.90	0.31					
6/18/03	19:30:00	2.20	0.35					
6/18/03	19:45:00	2.30	0.37					
6/18/03	20:00:00	2.30	0.37					
6/18/03	20:15:00	2.80	0.45					
6/18/03	20:30:00	2.80	0.45					
6/18/03	20:45:00	3.00	0.48					

Table H3.13.
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
6/18/03	21:00:00	2.80	0.45					
6/18/03	21:15:00	2.70	0.44					
6/18/03	21:30:00	2.60	0.42					
6/18/03	21:45:00	2.70	0.44					
6/18/03	22:00:00	2.50	0.40					
6/18/03	22:15:00	2.70	0.44					
6/18/03	22:30:00	3.00	0.48					
6/18/03	22:45:00	3.50	0.56					
6/18/03	23:00:00	3.30	0.53					
6/18/03	23:15:00	2.90	0.47					
6/18/03	23:30:00	3.20	0.52					
6/18/03	23:45:00	3.10	0.50					
6/19/03	0:00:00	3.10	0.50					
	MAX =	6.20						

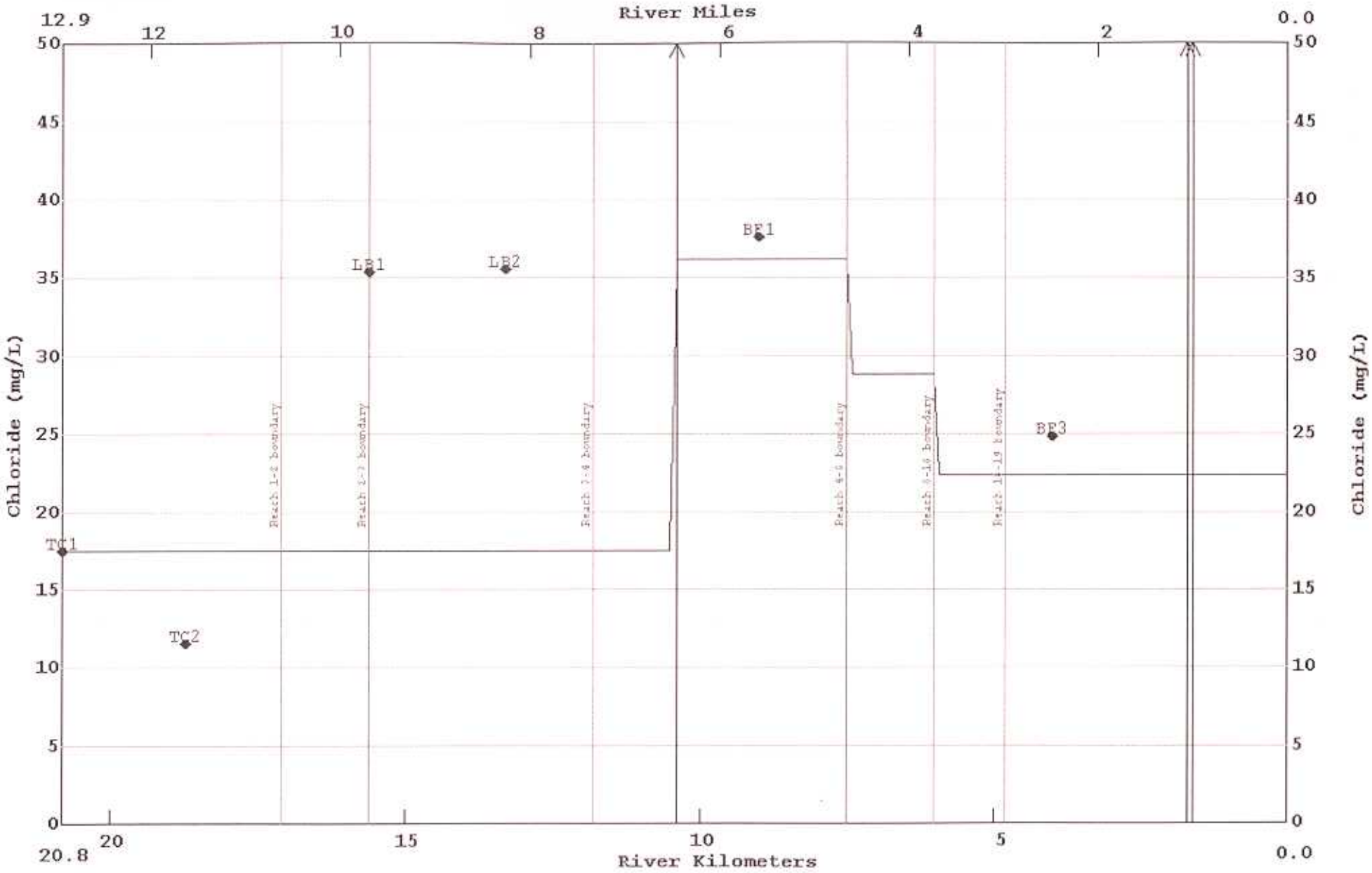
FILE: R:\PROJECTS\3110-051\BEOUF PDF\DO MAX CALCULATIONS-BOEUF.XLS

Table H3.13.
Survey Station LDA-1

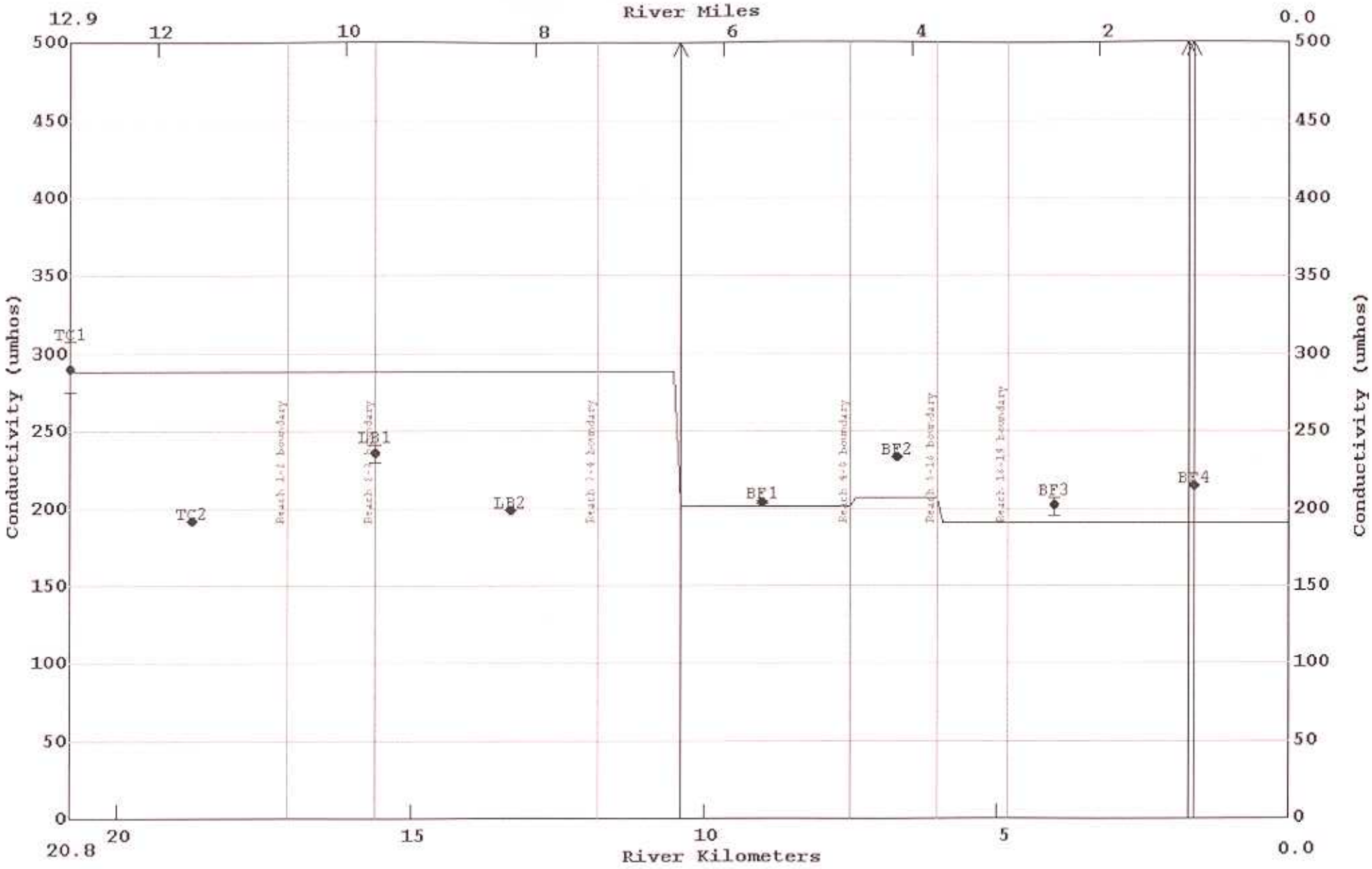
APPENDIX I

Predicted and Observed Chloride and Conductivity

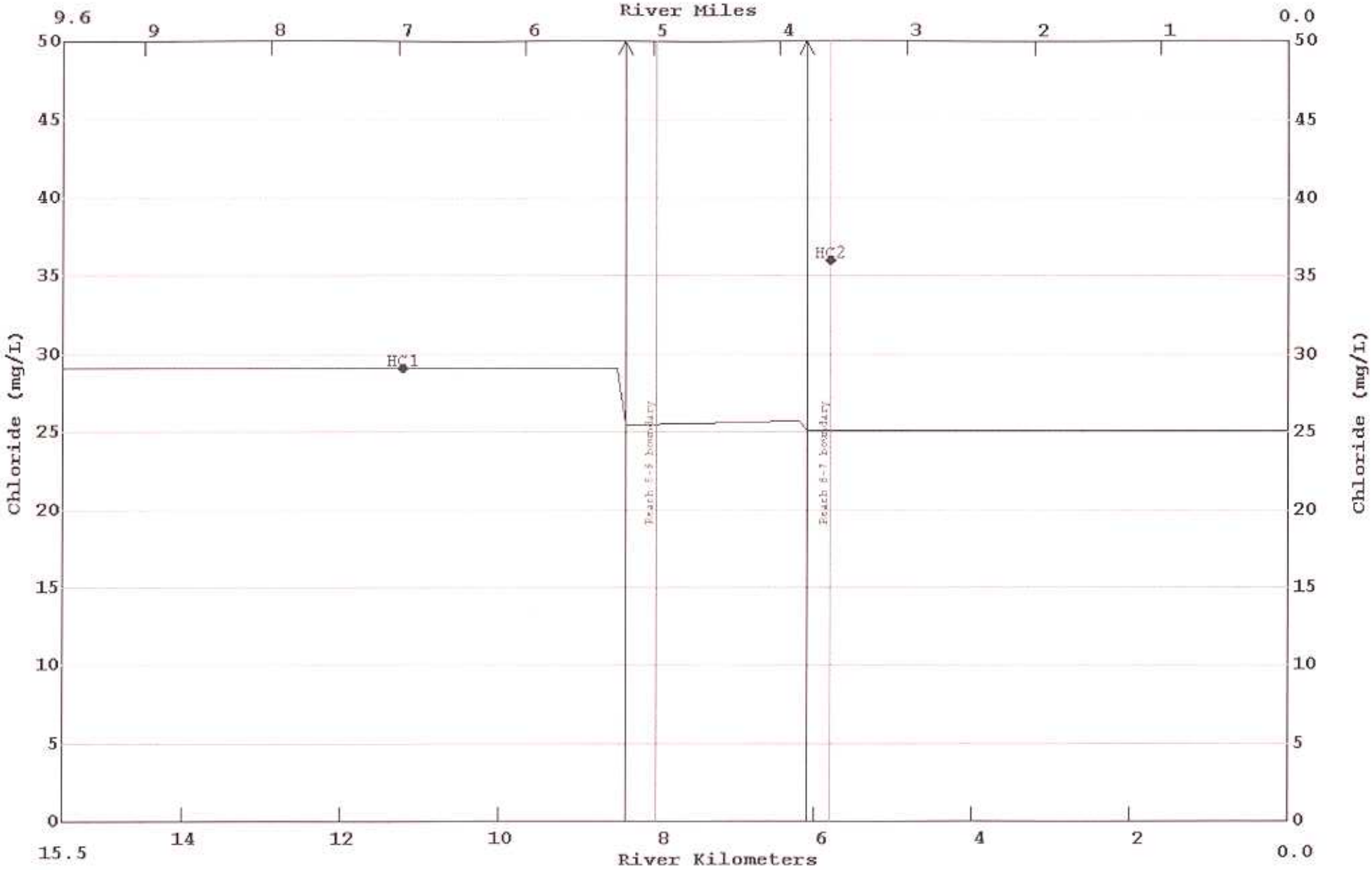
LA-QUAL Version 6.02 Run at 14:21 on 03/03/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 17.50 max= 36.19
Main Stem



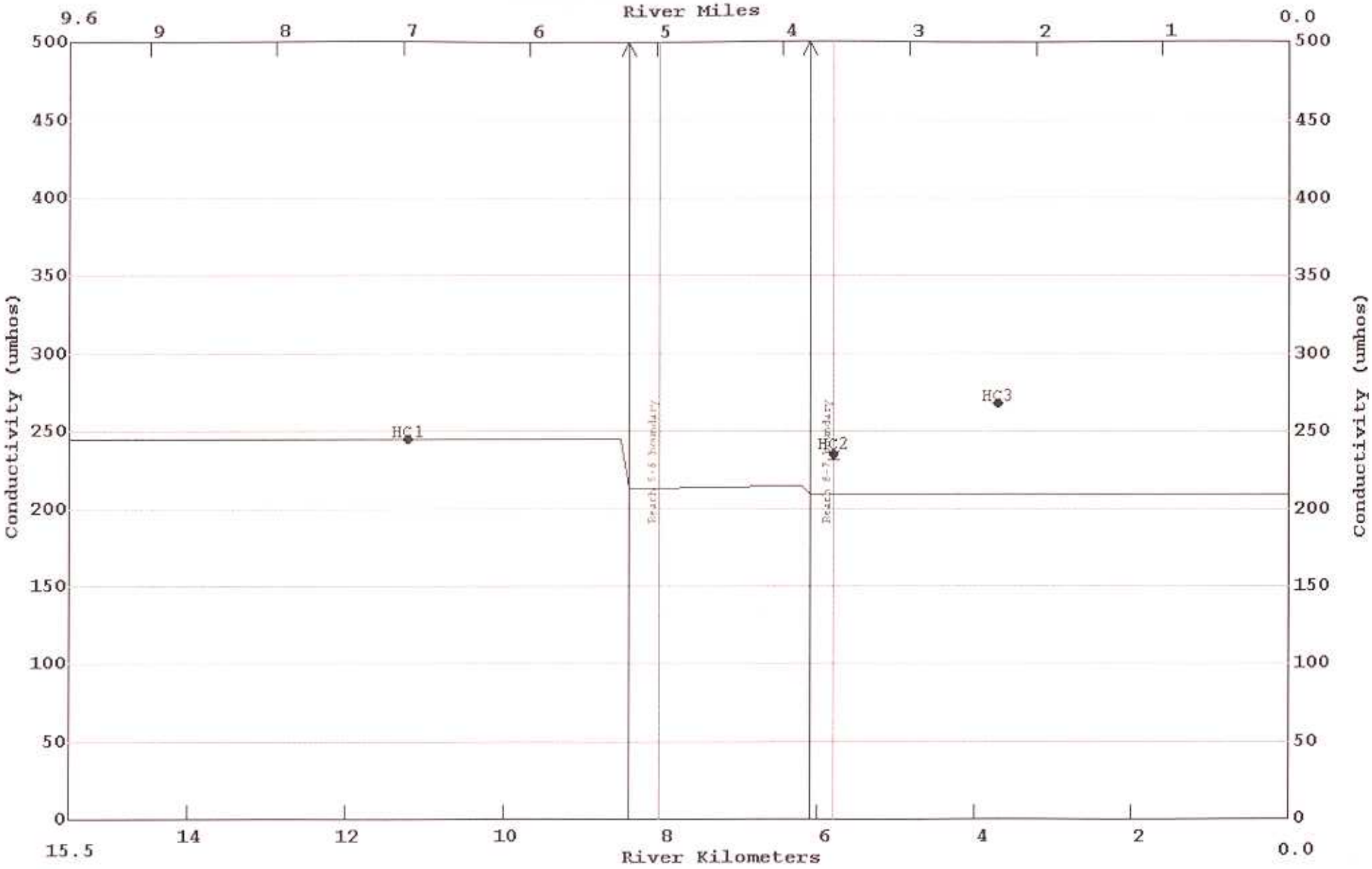
LA-QUAL Version 6.02 Run at 14:21 on 03/03/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 191.07 max= 288.40
Main Stem



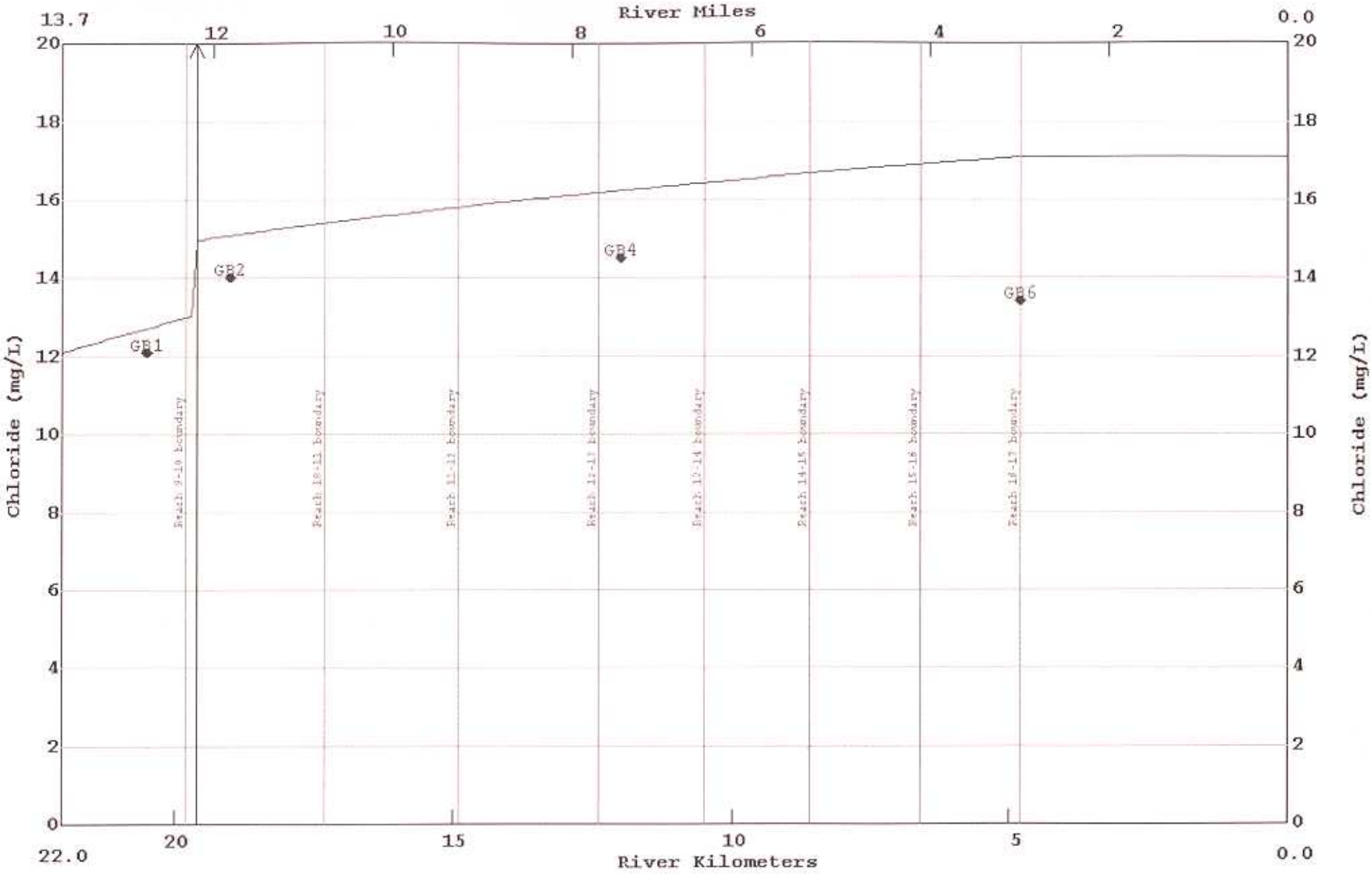
LA-QUAL Version 6.02 Run at 14:21 on 03/03/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 25.11 max= 29.10
Halpin Canal



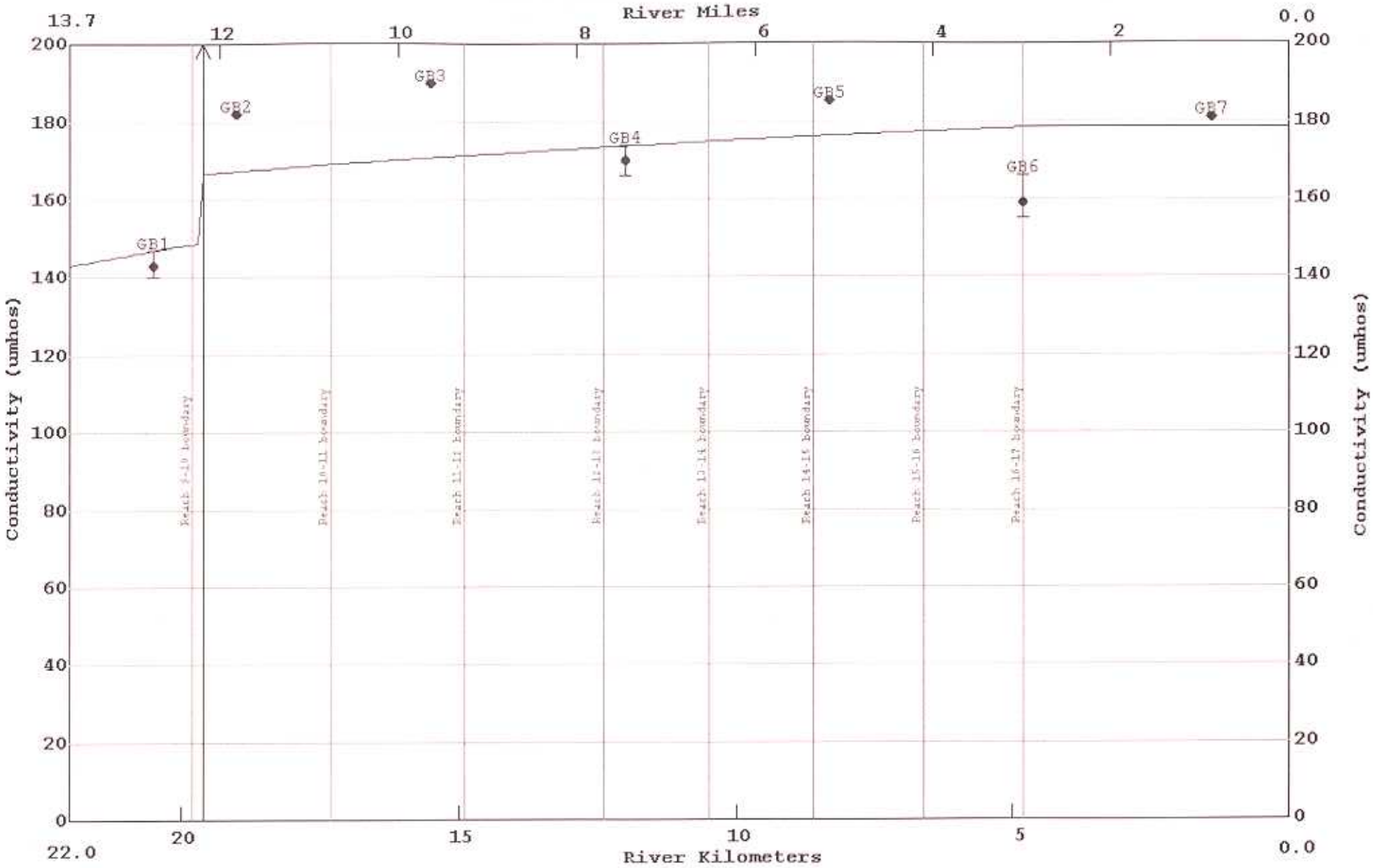
LA-QUAL Version 6.02 Run at 14:21 on 03/03/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 209.52 max= 245.20
Halpin Canal



LA-QUAL Version 6.02 Run at 14:21 on 03/03/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 12.10 max= 17.09
Grand Bayou



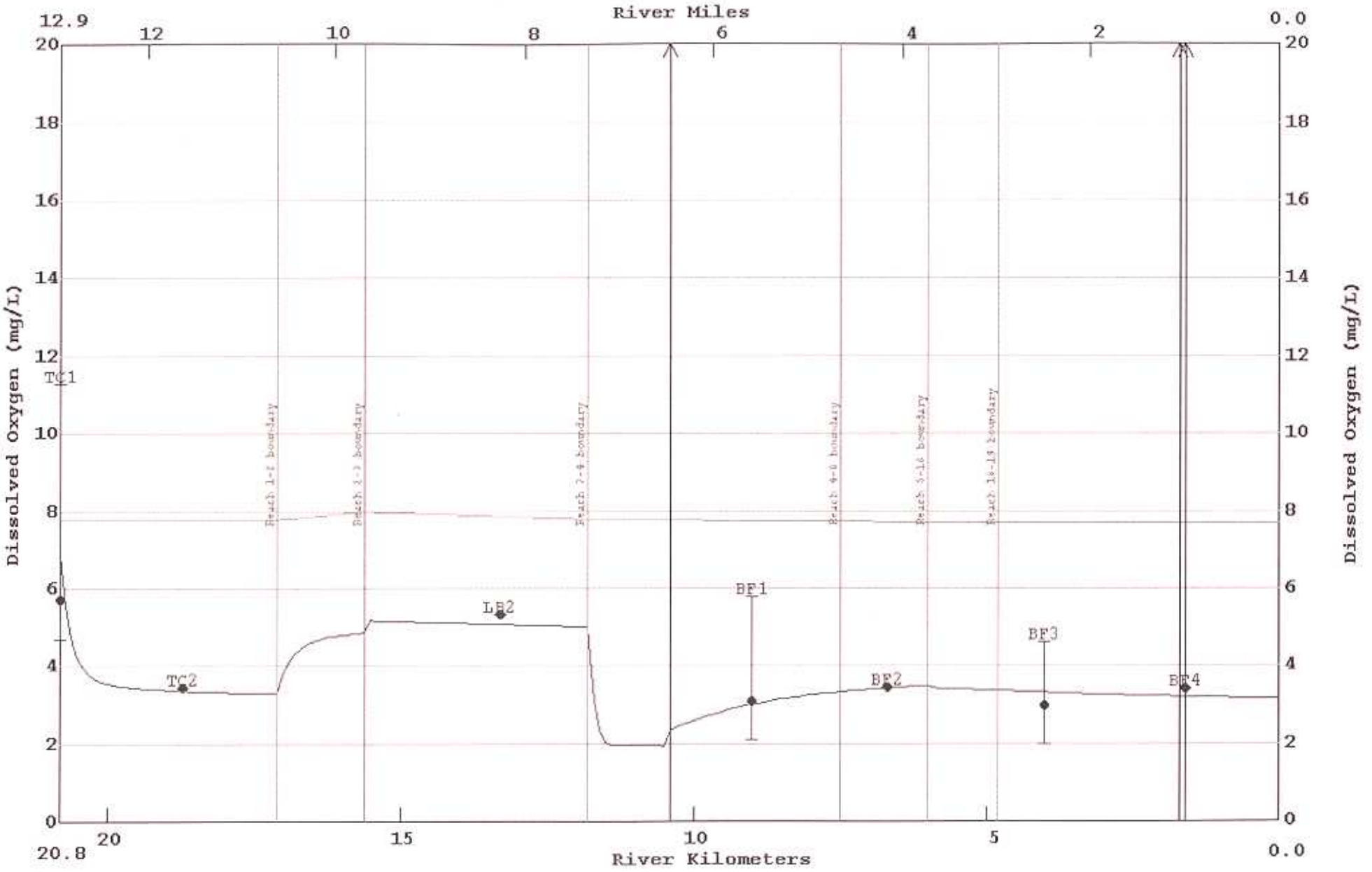
LA-QUAL Version 6.02 Run at 14:21 on 03/03/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 143.00 max= 178.35
Grand Bayou



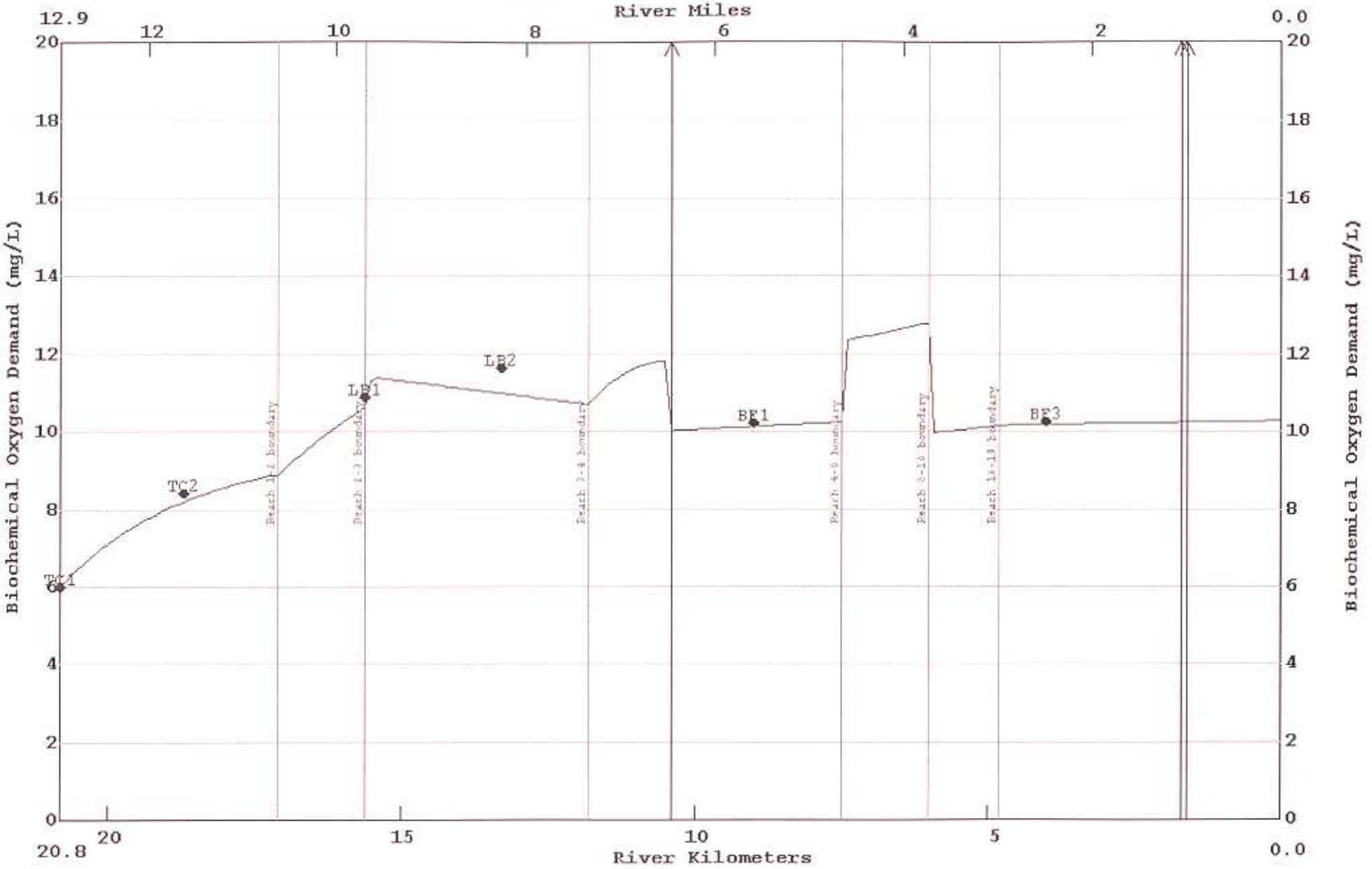
APPENDIX J

Predicted and Observed Water Quality

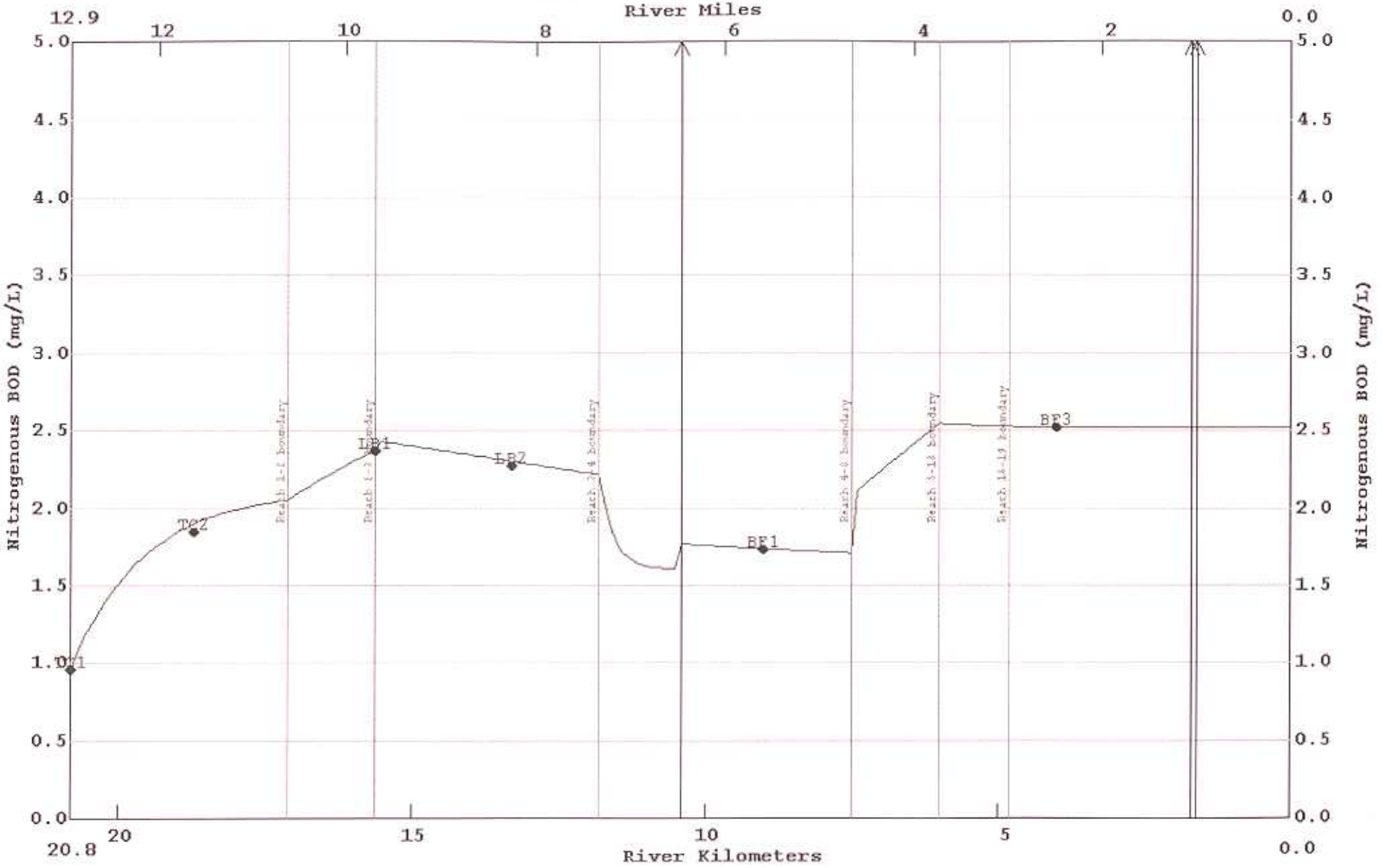
LA-QUAL Version 6.02 Run at 09:32 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 1.94 max= 6.89
Main Stem



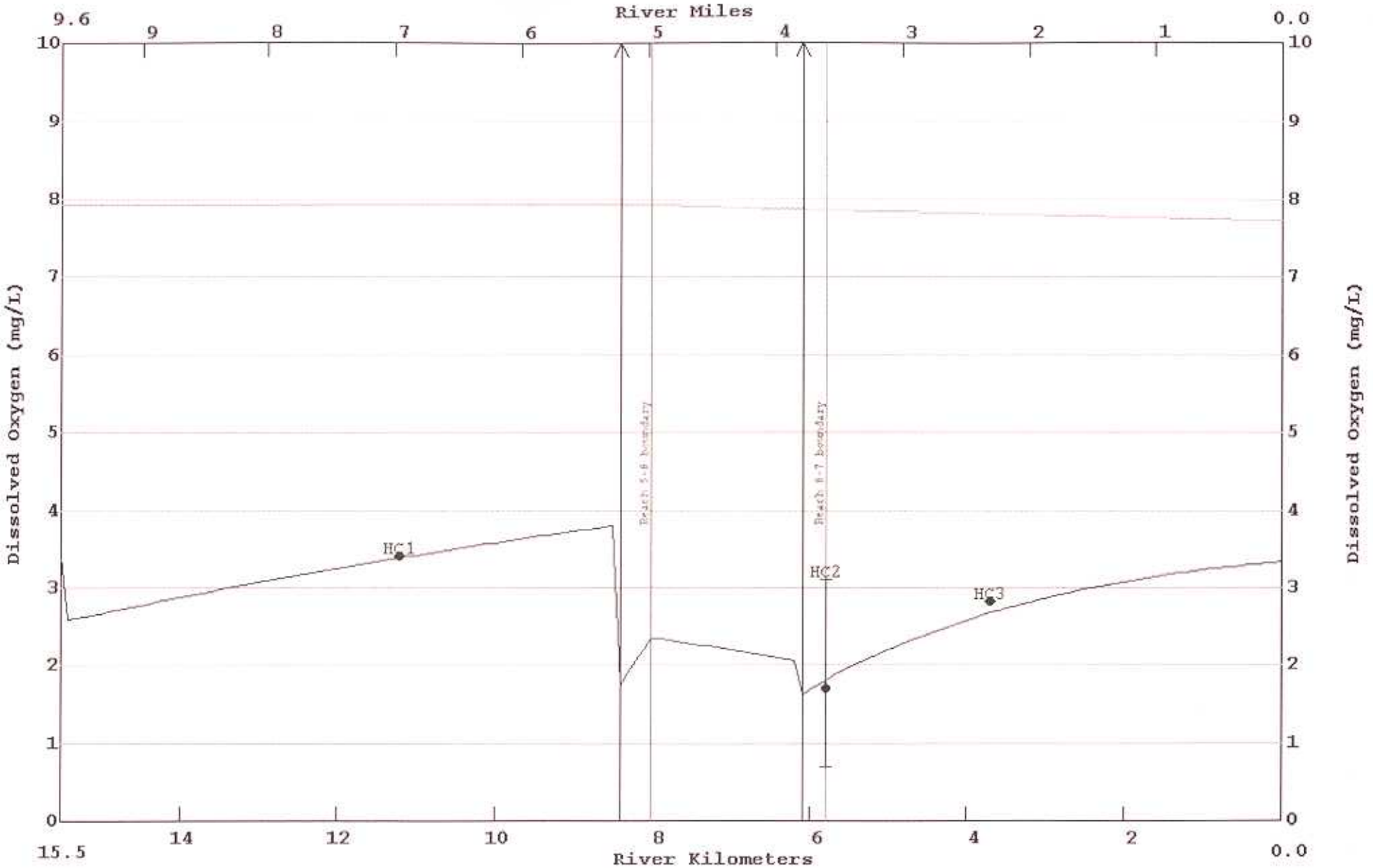
LA-QUAL Version 6.02 Run at 09:32 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 5.99 max= 12.79
Main Stem



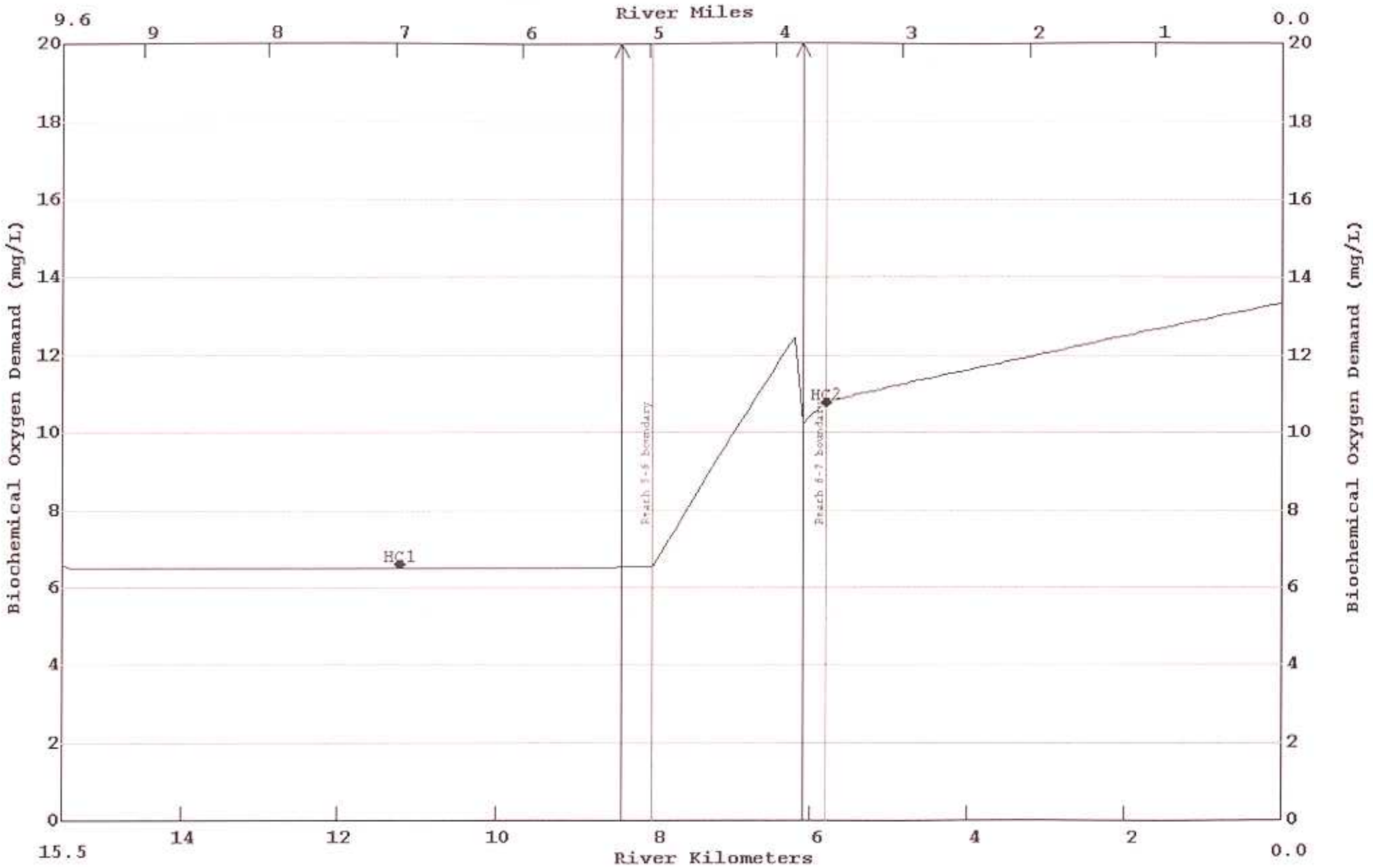
LA-QUAL Version 6.02 Run at 09:32 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 0.96 max= 2.54
Main Stem



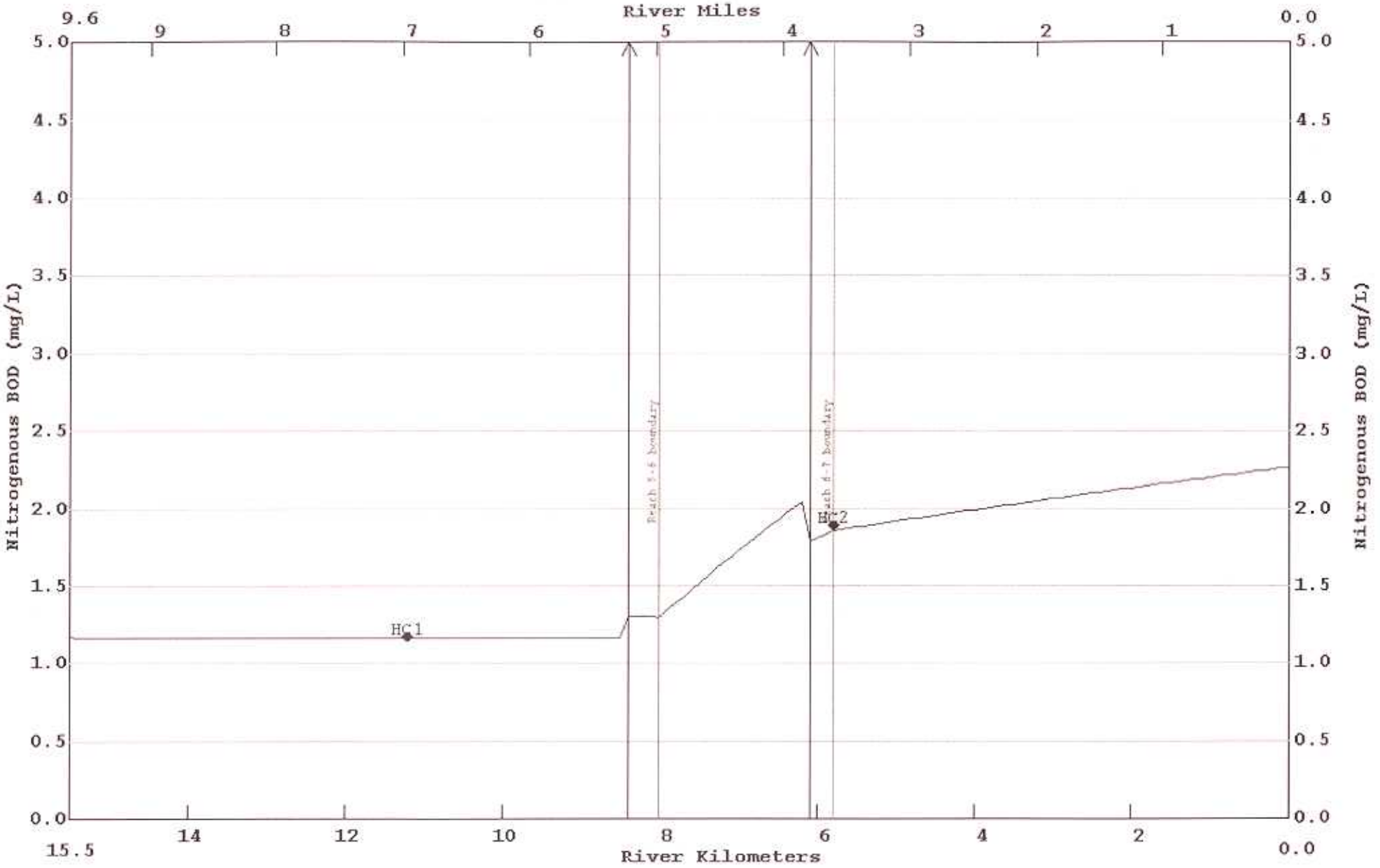
LA-QUAL Version 6.02 Run at 09:32 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 1.62 max= 3.79
Halpin Canal



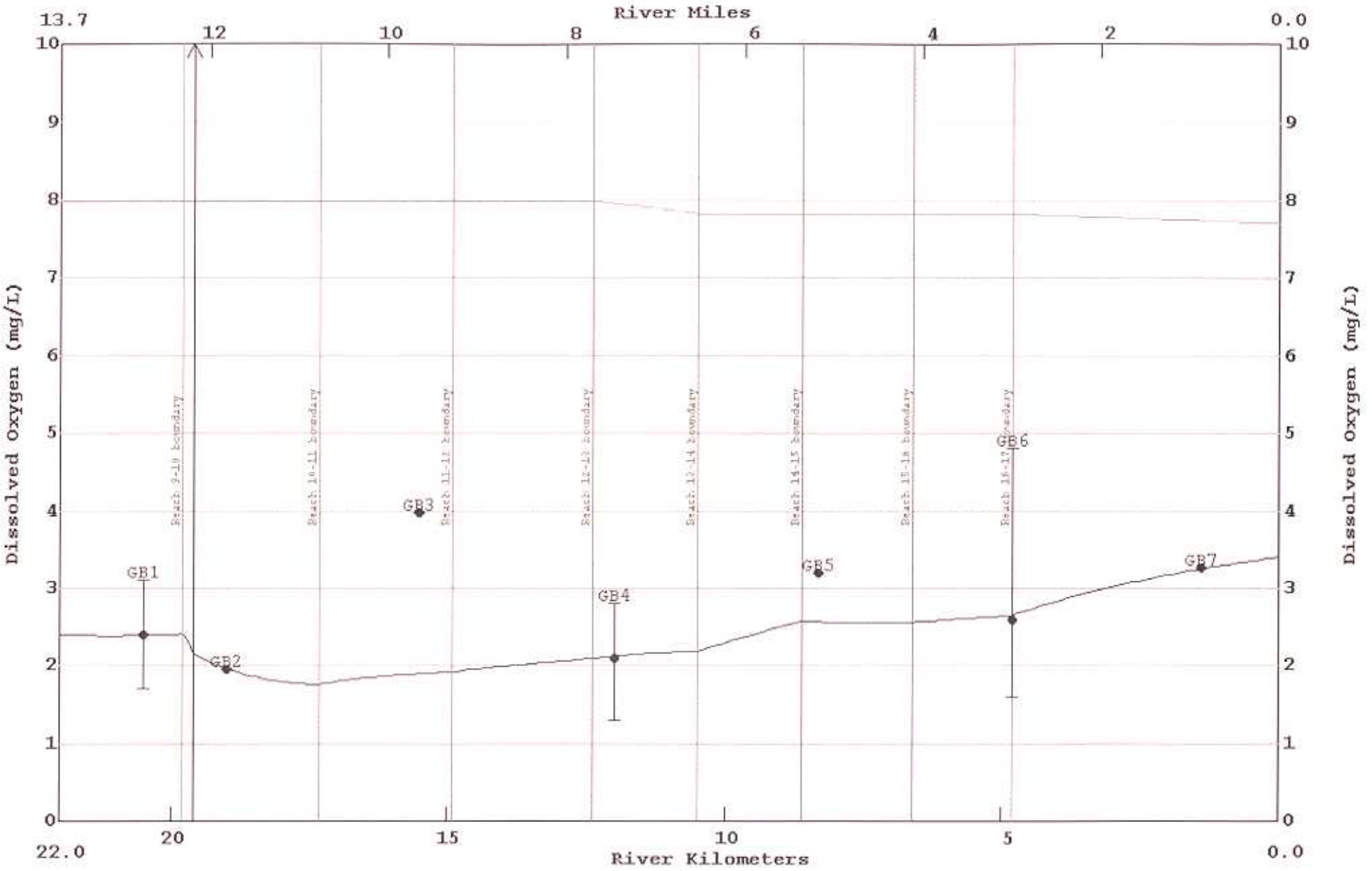
LA-QUAL Version 6.02 Run at 09:32 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 6.48 max= 13.35
Halpin Canal



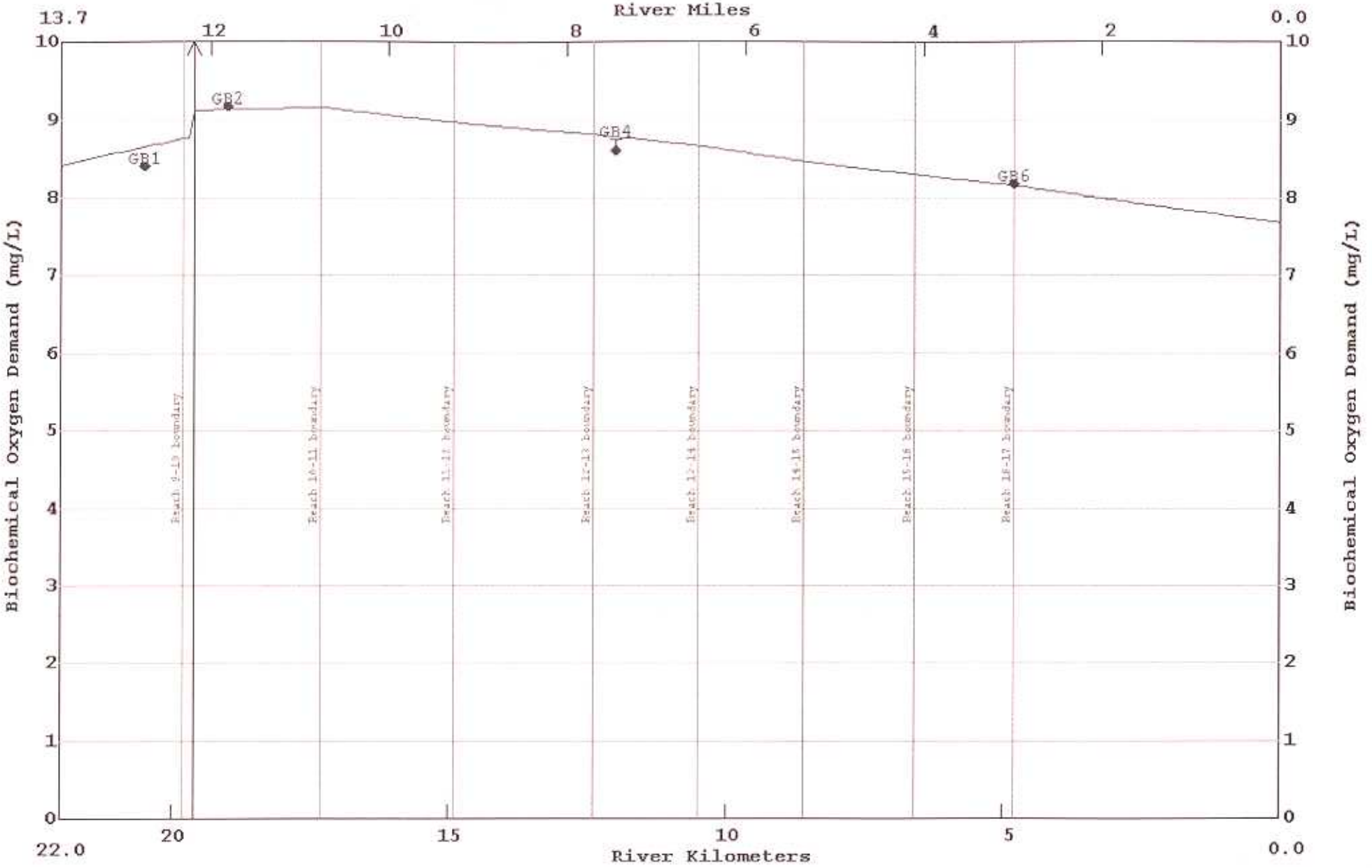
LA-QUAL Version 6.02 Run at 09:32 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 1.17 max= 2.27
Halpin Canal



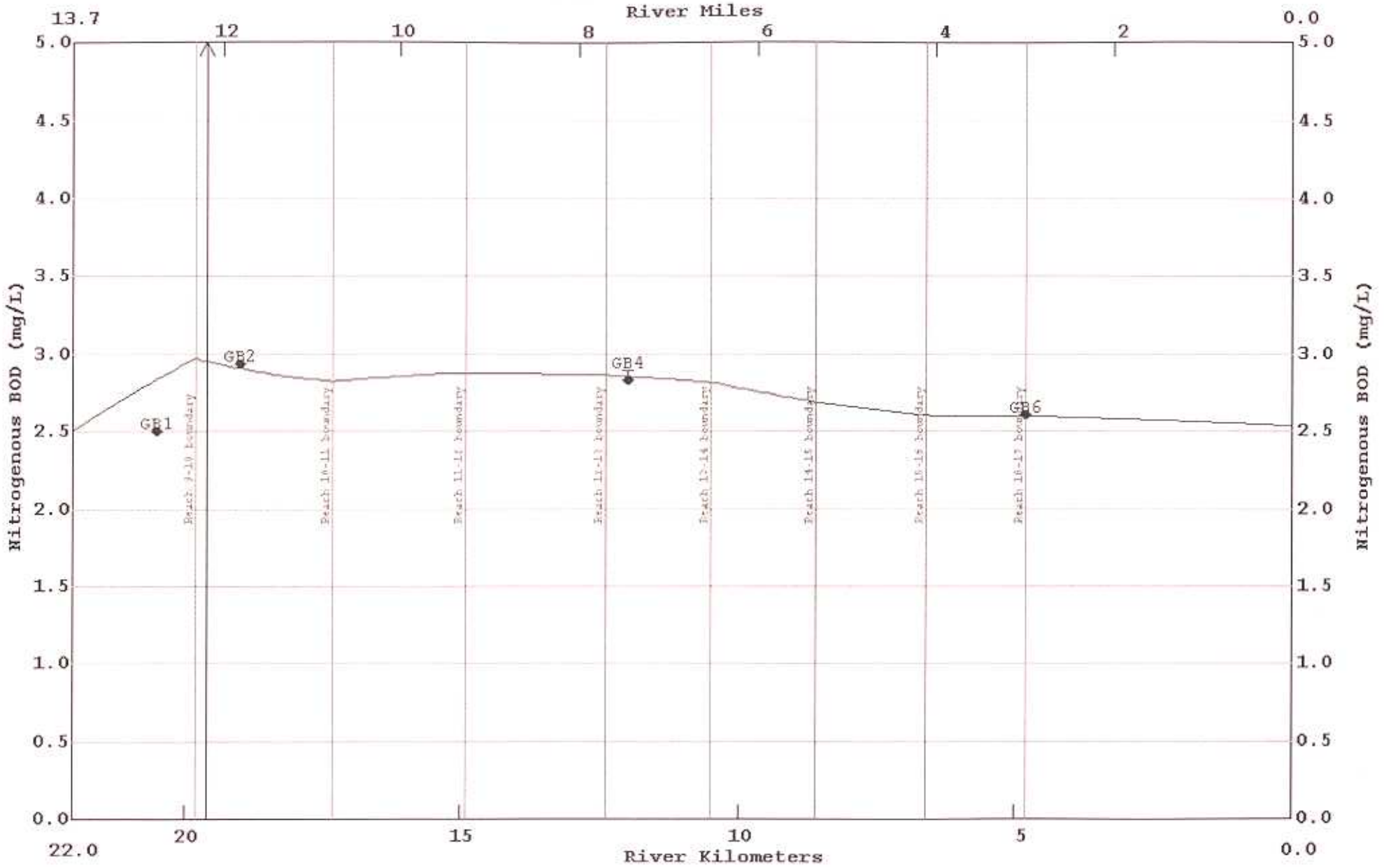
LA-QUAL Version 6.02 Run at 09:32 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 1.76 max= 3.40
Grand Bayou



LA-QUAL Version 6.02 Run at 09:32 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 7.68 max= 9.16
Grand Bayou



LA-QUAL Version 6.02 Run at 09:32 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Calibration Simulation for Beouf System Model min= 2.50 max= 2.97
Grand Bayou



APPENDIX K

Calibration Output file

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

Input file is R:\projects\3110-051\la-qual\boeuf\calib\bf_cal9.txt
Output produced at 09:32 on 03/04/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
TITLE02         Calibration Simulation for Beouf System Model
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	TC	Theriot Canal	20.80	TO	17.10	0.1000	3.70	37	1	37
REACH ID	2	TC	Theriot Canal	17.10	TO	15.60	0.1000	1.50	15	38	52
REACH ID	3	LB	Lake Boeuf	15.60	TO	11.80	0.1000	3.80	38	53	90
REACH ID	4	BB	Bayou Boeuf	11.80	TO	7.50	0.1000	4.30	43	91	133
REACH ID	5	HC	Halpin Canal	15.50	TO	8.00	0.1000	7.50	75	134	208
REACH ID	6	HC	Halpin Canal	8.00	TO	5.80	0.1000	2.20	22	209	230
REACH ID	7	HC	Halpin Canal	5.80	TO	0.00	0.1000	5.80	58	231	288
REACH ID	8	BB	Bayou Boeuf	7.50	TO	6.00	0.1000	1.50	15	289	303
REACH ID	9	GB	Grand Bayou	22.00	TO	19.80	0.1000	2.20	22	304	325
REACH ID	10	GB	Grand Bayou	19.80	TO	17.30	0.1000	2.50	25	326	350
REACH ID	11	GB	Grand Bayou	17.30	TO	14.90	0.1000	2.40	24	351	374
REACH ID	12	GB	Grand Bayou	14.90	TO	12.40	0.1000	2.50	25	375	399
REACH ID	13	GB	Grand Bayou	12.40	TO	10.50	0.1000	1.90	19	400	418
REACH ID	14	GB	Grand Bayou	10.50	TO	8.60	0.1000	1.90	19	419	437
REACH ID	15	GB	Grand Bayou	8.60	TO	6.60	0.1000	2.00	20	438	457
REACH ID	16	GB	Grand Bayou	6.60	TO	4.80	0.1000	1.80	18	458	475
REACH ID	17	GB	Grand Bayou	4.80	TO	0.00	0.1000	4.80	48	476	523
REACH ID	18	BB	Bayou Beouf	6.00	TO	4.60	0.1000	1.40	14	524	537
REACH ID	19	BB	Bayou Beouf	4.60	TO	0.00	0.1000	4.60	46	538	583

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	TC	0.000	0.000	20.900	0.000	0.000	0.560	0.00000	0.000
HYDR-1	2	TC	0.000	0.000	14.000	0.000	0.000	0.670	0.00000	0.000
HYDR-1	3	LB	0.000	0.000	1748.000	0.000	0.000	1.220	0.00000	0.000
HYDR-1	4	BB	0.000	0.000	47.850	0.000	0.000	1.325	0.00000	0.000
HYDR-1	5	HC	0.000	0.000	23.200	0.000	0.000	0.760	0.00000	0.000
HYDR-1	6	HC	0.000	0.000	23.800	0.000	0.000	1.050	0.00000	0.000
HYDR-1	7	HC	0.000	0.000	24.400	0.000	0.000	1.340	0.00000	0.000
HYDR-1	8	BB	0.000	0.000	41.500	0.000	0.000	1.710	0.00000	0.000
HYDR-1	9	GB	0.000	0.000	19.500	0.000	0.000	0.996	0.00000	0.000
HYDR-1	10	GB	0.000	0.000	32.500	0.000	0.000	1.515	0.00000	0.000
HYDR-1	11	GB	0.000	0.000	29.260	0.000	0.000	1.120	0.00000	0.000
HYDR-1	12	GB	0.000	0.000	22.250	0.000	0.000	1.235	0.00000	0.000
HYDR-1	13	GB	0.000	0.000	28.100	0.000	0.000	1.400	0.00000	0.000
HYDR-1	14	GB	0.000	0.000	36.700	0.000	0.000	1.585	0.00000	0.000
HYDR-1	15	GB	0.000	0.000	32.920	0.000	0.000	1.645	0.00000	0.000
HYDR-1	16	GB	0.000	0.000	35.350	0.000	0.000	1.520	0.00000	0.000
HYDR-1	17	GB	0.000	0.000	34.420	0.000	0.000	2.040	0.00000	0.000
HYDR-1	18	BB	0.000	0.000	69.030	0.000	0.000	1.850	0.00000	0.000
HYDR-1	19	BB	0.000	0.000	62.800	0.000	0.000	2.010	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"

ENDATA10

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

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	TC	28.30	0.12	5.70	0.00	0.00	0.00	0.00	0.00
INITIAL	2	TC	28.30	0.10	0.10	0.00	0.00	0.00	0.00	0.00
INITIAL	3	LB	26.90	0.10	0.10	0.00	0.00	0.00	0.00	0.00
INITIAL	4	BB	28.32	0.09	3.10	0.00	0.00	0.00	0.00	0.00
INITIAL	5	HC	27.21	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	6	HC	27.21	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	7	HC	27.74	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	8	BB	28.69	0.11	3.10	0.00	0.00	0.00	0.00	0.00
INITIAL	9	GB	26.82	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	10	GB	26.82	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	11	GB	26.82	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	12	GB	26.82	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	13	GB	26.82	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	14	GB	27.98	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	15	GB	27.98	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	16	GB	27.98	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	17	GB	27.98	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	18	BB	28.85	0.10	3.00	0.00	0.00	0.00	0.00	0.00
INITIAL	19	BB	28.85	0.10	3.00	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	TC	15 LOUISIANA	0.000	0.000	0.000	1.750	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	TC	15 LOUISIANA	0.000	0.000	0.000	1.000	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	LB	15 LOUISIANA	0.000	0.000	0.000	0.200	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	BB	15 LOUISIANA	0.000	0.000	0.000	1.600	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	HC	15 LOUISIANA	0.000	0.000	0.000	2.300	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	HC	15 LOUISIANA	0.000	0.000	0.000	6.000	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	HC	15 LOUISIANA	0.000	0.000	0.000	3.500	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	BB	15 LOUISIANA	0.000	0.000	0.000	2.000	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	GB	15 LOUISIANA	0.000	0.000	0.000	8.000	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	GB	15 LOUISIANA	0.000	0.000	0.000	7.000	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	11	GB	15 LOUISIANA	0.000	0.000	0.000	9.000	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	GB	15 LOUISIANA	0.000	0.000	0.000	9.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	GB	15 LOUISIANA	0.000	0.000	0.000	6.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	GB	15 LOUISIANA	0.000	0.000	0.000	3.000	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	15	GB	15 LOUISIANA	0.000	0.000	0.000	4.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	16	GB	15 LOUISIANA	0.000	0.000	0.000	4.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	17	GB	15 LOUISIANA	0.000	0.000	0.000	1.500	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	18	BB	15 LOUISIANA	0.000	0.000	0.000	3.500	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	19	BB	15 LOUISIANA	0.000	0.000	0.000	3.500	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     ORG-N   ORGN CONV       NH3       NH3      PHOS     DENIT
                                DECA      SETT  TO NH3 SRCE     DECA      SRCE      SRCE      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   TC       0.000     0.100     0.000     0.000
COEF-4           2   TC       0.000     0.100     0.000     0.000
COEF-4           3   LB       0.000     0.100     0.000     0.000
COEF-4           4   BB       0.000     0.100     0.000     0.000
COEF-4           5   HC       0.000     0.100     0.000     0.000
COEF-4           6   HC       0.000     0.100     0.000     0.000
COEF-4           7   HC       0.000     0.100     0.000     0.000
COEF-4           8   BB       0.000     0.100     0.000     0.000
COEF-4           9   GB       0.000     0.360     0.000     0.000
COEF-4          10   GB       0.000     0.360     0.000     0.000
COEF-4          11   GB       0.000     0.360     0.000     0.000
COEF-4          12   GB       0.000     0.360     0.000     0.000
COEF-4          13   GB       0.000     0.360     0.000     0.000
COEF-4          14   GB       0.000     0.360     0.000     0.000
COEF-4          15   GB       0.000     0.360     0.000     0.000
COEF-4          16   GB       0.000     0.360     0.000     0.000
COEF-4          17   GB       0.000     0.360     0.000     0.000
COEF-4          18   BB       0.000     0.100     0.000     0.000
COEF-4          19   BB       0.000     0.100     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	TC	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	2	TC	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	3	LB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	4	BB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	5	HC	0.00000	0.37780	0.00	0.00	29.10	245.20	0.05037	0.00000
INCR-1	6	HC	0.00000	0.11080	0.00	0.00	29.10	245.20	0.05036	0.00000
INCR-1	7	HC	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	8	BB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	9	GB	0.00000	0.20080	0.00	0.00	22.50	208.00	0.09127	0.00000
INCR-1	10	GB	0.00000	0.22820	0.00	0.00	22.50	208.00	0.09128	0.00000
INCR-1	11	GB	0.00000	0.21910	0.00	0.00	22.50	208.00	0.09129	0.00000
INCR-1	12	GB	0.00000	0.22820	0.00	0.00	22.50	208.00	0.09128	0.00000
INCR-1	13	GB	0.00000	0.17340	0.00	0.00	22.50	208.00	0.09126	0.00000
INCR-1	14	GB	0.00000	0.17340	0.00	0.00	22.50	208.00	0.09126	0.00000
INCR-1	15	GB	0.00000	0.18260	0.00	0.00	22.50	208.00	0.09130	0.00000
INCR-1	16	GB	0.00000	0.16430	0.00	0.00	22.50	208.00	0.09128	0.00000
INCR-1	17	GB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	18	BB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000
INCR-1	19	BB	0.00000	0.00000	0.00	0.00	0.00	0.00	0.00000	0.00000

ENDATA16

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

CARD TYPE	REACH	ID	DO	BOD	ORG-N	NH3-N	NO3-N	BOD#2
INCR-2	1	TC	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	2	TC	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	3	LB	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	4	BB	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	5	HC	3.40	6.59	0.00	0.00	0.00	0.00
INCR-2	6	HC	3.40	6.59	0.00	0.00	0.00	0.00
INCR-2	7	HC	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	8	BB	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	9	GB	1.32	8.24	0.00	0.00	0.00	0.00
INCR-2	10	GB	1.32	8.24	0.00	0.00	0.00	0.00
INCR-2	11	GB	1.32	8.24	0.00	0.00	0.00	0.00
INCR-2	12	GB	1.32	8.24	0.00	0.00	0.00	0.00
INCR-2	13	GB	1.32	8.24	0.00	0.00	0.00	0.00
INCR-2	14	GB	1.32	8.24	0.00	0.00	0.00	0.00
INCR-2	15	GB	1.32	8.24	0.00	0.00	0.00	0.00
INCR-2	16	GB	1.32	8.24	0.00	0.00	0.00	0.00
INCR-2	17	GB	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	18	BB	0.00	0.00	0.00	0.00	0.00	0.00
INCR-2	19	BB	0.00	0.00	0.00	0.00	0.00	0.00

ENDATA17

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

CARD TYPE	REACH	ID	PHOS	CHL A	COLI	NCM
INCR-3	1	TC	0.00	0.00	0.00	0.00
INCR-3	2	TC	0.00	0.00	0.00	0.00
INCR-3	3	LB	0.00	0.00	0.00	0.00
INCR-3	4	BB	0.00	0.00	0.00	0.00
INCR-3	5	HC	0.00	0.00	0.00	1.17
INCR-3	6	HC	0.00	0.00	0.00	1.17
INCR-3	7	HC	0.00	0.00	0.00	0.00
INCR-3	8	BB	0.00	0.00	0.00	0.00
INCR-3	9	GB	0.00	0.00	0.00	2.16
INCR-3	10	GB	0.00	0.00	0.00	2.16
INCR-3	11	GB	0.00	0.00	0.00	2.16
INCR-3	12	GB	0.00	0.00	0.00	2.16
INCR-3	13	GB	0.00	0.00	0.00	2.16
INCR-3	14	GB	0.00	0.00	0.00	2.16
INCR-3	15	GB	0.00	0.00	0.00	2.16
INCR-3	16	GB	0.00	0.00	0.00	2.16
INCR-3	17	GB	0.00	0.00	0.00	0.00
INCR-3	18	BB	0.00	0.00	0.00	0.00
INCR-3	19	BB	0.00	0.00	0.00	0.00

ENDATA18

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

CARD TYPE	REACH	ID	BOD#1	ORG-N	COLI	NCM	DO	BOD#2
NONPOINT	1	TC	42.00	0.00	0.00	16.00	0.00	0.00
NONPOINT	2	TC	18.00	0.00	0.00	6.00	0.00	0.00
NONPOINT	3	LB	8900.00	0.00	0.00	3150.00	0.00	0.00
NONPOINT	4	BB	325.00	0.00	0.00	75.00	0.00	0.00
NONPOINT	5	HC	80.00	0.00	0.00	25.00	0.00	0.00
NONPOINT	6	HC	1000.00	0.00	0.00	135.00	0.00	0.00
NONPOINT	7	HC	800.00	0.00	0.00	160.00	0.00	0.00
NONPOINT	8	BB	300.00	0.00	0.00	200.00	0.00	0.00
NONPOINT	9	GB	100.00	0.00	0.00	170.00	0.00	0.00
NONPOINT	10	GB	100.00	0.00	0.00	160.00	0.00	0.00
NONPOINT	11	GB	0.00	0.00	0.00	150.00	0.00	0.00
NONPOINT	12	GB	0.00	0.00	0.00	120.00	0.00	0.00
NONPOINT	13	GB	0.00	0.00	0.00	120.00	0.00	0.00
NONPOINT	14	GB	0.00	0.00	0.00	150.00	0.00	0.00
NONPOINT	15	GB	0.00	0.00	0.00	150.00	0.00	0.00
NONPOINT	16	GB	0.00	0.00	0.00	160.00	0.00	0.00
NONPOINT	17	GB	0.00	0.00	0.00	525.00	0.00	0.00
NONPOINT	18	BB	350.00	0.00	0.00	70.00	0.00	0.00
NONPOINT	19	BB	700.00	0.00	0.00	260.00	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	Theriot Canal	0	0.02800	0.989	0.00	0.00	17.500	288.400
HDWTR-1	134	Halpin Canal	0	0.00000	0.000	0.00	0.00	29.100	245.200
HDWTR-1	304	Grand Bayou	0	2.18000	76.977	0.00	0.00	12.100	143.000

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	Theriot Canal	6.89	5.99	0.00	0.00	0.00	0.00
HDWTR-2	134	Halpin Canal	3.40	6.59	0.00	0.00	0.00	0.00
HDWTR-2	304	Grand Bayou	2.40	8.41	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	Theriot Canal	0.00	0.00	0.00	0.96
HDWTR-3	134	Halpin Canal	0.00	0.00	0.00	1.17
HWDTR-3	304	Grand Bayou	0.00	0.00	0.00	2.50

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME
JUNCTION	289	133	7.50	Halpin Canal
JUNCTION	524	303	6.00	Grand Bayou

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	104	10.50	Bowie Canal	1.26500	44.66808	28.874	0.00	0.00	36.600	199.200
WSTLD-1	204	8.50	Pitre Lening	1.04000	36.72316	23.738	0.00	0.00	24.200	201.400
WSTLD-1	227	6.20	Unnamed	1.04000	36.72316	23.738	0.00	0.00	24.200	201.400
WSTLD-1	327	19.70	Bayou Onion	1.04000	36.72316	23.738	0.00	0.00	19.400	207.700
WSTLD-1	566	1.80	LA DOTD	0.00011	0.00388	0.003	0.00	0.00	0.000	0.000
WSTLD-1	567	1.70	LaFourche Sch Bld	0.00022	0.00777	0.005	0.00	0.00	0.000	0.000

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	104	Bowie Canal	2.30	9.97	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	204	Pitre Lening	0.80	6.53	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	227	Unnamed	0.80	6.53	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	327	Bayou Onion	1.90	9.95	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	566	LA DOTD	2.00	103.50	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	567	LaFourche Sch Bld	2.00	103.50	0.00	0.00	0.00	0.00	0.00	0.00

ENDATA25

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

CARD TYPE	ELEMENT	NAME	PHOS mg/L	CHL A mg/L	COLI mg/L	NCM mg/L
WSTLD-3	104	Bowie Canal	0.00	0.00	0.00	1.77
WSTLD-3	204	Pitre Lening	0.00	0.00	0.00	1.35
WSTLD-3	227	Unnamed	0.00	0.00	0.00	1.35
WSTLD-3	327	Bayou Onion	0.00	0.00	0.00	2.97
WSTLD-3	566	LA DOTD	0.00	0.00	0.00	64.50
WSTLD-3	567	LaFourche Sch Bld	0.00	0.00	0.00	64.50

ENDATA26

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

CARD TYPE CONSTITUENT CONCENTRATION

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 =  8
NUMBER OF REACHES IN PLOT 1 =   7
PLOT RCH  1  2  3  4  8 18 19
NUMBER OF REACHES IN PLOT 2 =   3
PLOT RCH  5  6  7
NUMBER OF REACHES IN PLOT 3 =   9
PLOT RCH  9 10 11 12 13 14 15 16 17
NUMBER OF REACHES IN PLOT 4 =   7
PLOT RCH  1  2  3  4  8 18 19
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NUMBER OF REACHES IN PLOT 5 =   3
PLOT RCH  5  6  7
NUMBER OF REACHES IN PLOT 6 =   9
PLOT RCH  9 10 11 12 13 14 15 16 17
NUMBER OF REACHES IN PLOT 4 =   7
PLOT RCH  1  2  3  4  8 18 19
NUMBER OF REACHES IN PLOT 6 =   9
PLOT RCH  9 10 11 12 13 14 15 16 17
ENDATA30

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


OVERLAY 1 MS.OVL                          Main Stem
OVERLAY 2 HAL.OVL                         Halpin Canal
OVERLAY 3 GB.OVL                          Grand Bayou
OVERLAY 4 MS-flow.OVL                     Flows on Main Stem
OVERLAY 5 HAL-flow.OVL                    Flows on Halpin Canal
OVERLAY 6 GB-flow.OVL                     Flows on Grand Bayou
OVERLAY 7 MS-xcs.OVL                      XCS on Main Stem
OVERLAY 8 GB-xcs.OVL                      XCS on Grand Bayou
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  31 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
     .....GRAPHICS DATA FOR PLOT 4 WRITTEN TO UNIT 14
     .....GRAPHICS DATA FOR PLOT 5 WRITTEN TO UNIT 15
     .....GRAPHICS DATA FOR PLOT 6 WRITTEN TO UNIT 16
     .....GRAPHICS DATA FOR PLOT 7 WRITTEN TO UNIT 17
     .....GRAPHICS DATA FOR PLOT 8 WRITTEN TO UNIT 18
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CONDENSED CAPSULE SUMMARY FOR Theriot Canal

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	0.02800	0.00	0.00	6.89	5.99	0.00	0.00	0.00	0.00							
20.70	0.02800	28.30	0.11	5.53	6.15	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
20.60	0.02800	28.30	0.11	4.72	6.31	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
20.50	0.02800	28.30	0.11	4.24	6.46	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
20.40	0.02800	28.30	0.11	3.95	6.60	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
20.30	0.02800	28.30	0.11	3.78	6.74	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
20.20	0.02800	28.30	0.11	3.67	6.87	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
20.10	0.02800	28.30	0.11	3.59	6.99	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
20.00	0.02800	28.30	0.11	3.55	7.11	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
19.90	0.02800	28.30	0.11	3.51	7.22	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95

19.80	0.02800	28.30	0.11	3.49	7.32	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
19.70	0.02800	28.30	0.11	3.47	7.42	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
19.60	0.02800	28.30	0.11	3.45	7.52	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
19.50	0.02800	28.30	0.11	3.44	7.61	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
19.40	0.02800	28.30	0.11	3.43	7.70	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
19.30	0.02800	28.30	0.11	3.42	7.78	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
19.20	0.02800	28.30	0.11	3.41	7.86	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
19.10	0.02800	28.30	0.11	3.40	7.94	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
19.00	0.02800	28.30	0.11	3.39	8.01	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
18.90	0.02800	28.30	0.11	3.38	8.08	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
18.80	0.02800	28.30	0.11	3.37	8.14	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
18.70	0.02800	28.30	0.11	3.36	8.21	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
18.60	0.02800	28.30	0.11	3.36	8.27	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
18.50	0.02800	28.30	0.11	3.35	8.32	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
18.40	0.02800	28.30	0.11	3.35	8.38	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
18.30	0.02800	28.30	0.10	3.34	8.43	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
18.20	0.02800	28.30	0.10	3.33	8.48	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
18.10	0.02800	28.30	0.10	3.33	8.52	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
18.00	0.02800	28.30	0.10	3.33	8.57	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
17.90	0.02800	28.30	0.10	3.32	8.61	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
17.80	0.02800	28.30	0.10	3.32	8.65	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
17.70	0.02800	28.30	0.10	3.31	8.69	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
17.60	0.02800	28.30	0.10	3.31	8.73	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
17.50	0.02800	28.30	0.10	3.31	8.76	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
17.40	0.02800	28.30	0.10	3.30	8.79	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
17.30	0.02800	28.30	0.10	3.30	8.83	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
17.20	0.02800	28.30	0.10	3.30	8.86	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
17.10	0.02800	28.30	0.10	3.30	8.88	0.00	0.00	0.00	0.00	1.46	0.10	0.00	0.00	0.00	0.00	2.95
17.00	0.02800	28.21	0.10	3.76	9.02	0.00	0.00	0.00	0.00	1.23	0.10	0.00	0.00	0.00	0.00	1.68
16.90	0.02800	28.11	0.10	4.07	9.16	0.00	0.00	0.00	0.00	1.23	0.10	0.00	0.00	0.00	0.00	1.67
16.80	0.02800	28.02	0.10	4.29	9.29	0.00	0.00	0.00	0.00	1.23	0.10	0.00	0.00	0.00	0.00	1.66
16.70	0.02800	27.93	0.10	4.44	9.42	0.00	0.00	0.00	0.00	1.22	0.10	0.00	0.00	0.00	0.00	1.65
16.60	0.02800	27.83	0.10	4.54	9.54	0.00	0.00	0.00	0.00	1.22	0.10	0.00	0.00	0.00	0.00	1.64
16.50	0.02800	27.74	0.10	4.62	9.67	0.00	0.00	0.00	0.00	1.22	0.10	0.00	0.00	0.00	0.00	1.63
16.40	0.02800	27.65	0.10	4.67	9.78	0.00	0.00	0.00	0.00	1.22	0.10	0.00	0.00	0.00	0.00	1.62
16.30	0.02800	27.55	0.10	4.71	9.90	0.00	0.00	0.00	0.00	1.22	0.10	0.00	0.00	0.00	0.00	1.61
16.20	0.02800	27.46	0.10	4.74	10.01	0.00	0.00	0.00	0.00	1.21	0.10	0.00	0.00	0.00	0.00	1.60
16.10	0.02800	27.37	0.10	4.77	10.12	0.00	0.00	0.00	0.00	1.21	0.10	0.00	0.00	0.00	0.00	1.59
16.00	0.02800	27.27	0.10	4.79	10.23	0.00	0.00	0.00	0.00	1.21	0.10	0.00	0.00	0.00	0.00	1.58
15.90	0.02800	27.18	0.10	4.81	10.34	0.00	0.00	0.00	0.00	1.21	0.10	0.00	0.00	0.00	0.00	1.57
15.80	0.02800	27.09	0.10	4.83	10.44	0.00	0.00	0.00	0.00	1.21	0.10	0.00	0.00	0.00	0.00	1.56
15.70	0.02800	26.99	0.10	4.85	10.54	0.00	0.00	0.00	0.00	1.20	0.10	0.00	0.00	0.00	0.00	1.55
15.60	0.02800	26.90	0.10	4.86	10.64	0.00	0.00	0.00	0.00	1.20	0.10	0.00	0.00	0.00	0.00	1.54
15.50	0.02800	26.94	0.10	5.18	11.33	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	0.31
15.40	0.02800	26.97	0.10	5.16	11.38	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	0.31
15.30	0.02800	27.01	0.10	5.16	11.37	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	0.31
15.20	0.02800	27.05	0.10	5.15	11.35	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	0.31
15.10	0.02800	27.09	0.10	5.15	11.33	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	0.31
15.00	0.02800	27.12	0.10	5.14	11.31	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	0.31
14.90	0.02800	27.16	0.10	5.14	11.30	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	0.31
14.80	0.02800	27.20	0.10	5.14	11.28	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	0.31
14.70	0.02800	27.24	0.10	5.13	11.26	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	0.32
14.60	0.02800	27.27	0.10	5.13	11.24	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	0.32
14.50	0.02800	27.31	0.10	5.12	11.22	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.00	0.00	0.32
14.40	0.02800	27.35	0.10	5.12	11.20	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.32
14.30	0.02800	27.39	0.10	5.11	11.18	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.32

14.20	0.02800	27.42	0.10	5.11	11.16	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.32
14.10	0.02800	27.46	0.10	5.11	11.14	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.32
14.00	0.02800	27.50	0.10	5.10	11.12	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.32
13.90	0.02800	27.54	0.10	5.10	11.10	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.32
13.80	0.02800	27.57	0.10	5.09	11.08	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.32
13.70	0.02800	27.61	0.09	5.09	11.06	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.32
13.60	0.02800	27.65	0.09	5.08	11.04	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.32
13.50	0.02800	27.68	0.09	5.08	11.03	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.32
13.40	0.02800	27.72	0.09	5.07	11.01	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.33
13.30	0.02800	27.76	0.09	5.07	10.99	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.33
13.20	0.02800	27.80	0.09	5.07	10.97	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.33
13.10	0.02800	27.83	0.09	5.06	10.95	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.33
13.00	0.02800	27.87	0.09	5.06	10.93	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.33
12.90	0.02800	27.91	0.09	5.05	10.91	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.33
12.80	0.02800	27.95	0.09	5.05	10.89	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.33
12.70	0.02800	27.98	0.09	5.04	10.88	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.33
12.60	0.02800	28.02	0.09	5.04	10.86	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.33
12.50	0.02800	28.06	0.09	5.04	10.84	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.33
12.40	0.02800	28.10	0.09	5.03	10.82	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.33
12.30	0.02800	28.13	0.09	5.03	10.80	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.33
12.20	0.02800	28.17	0.09	5.02	10.78	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.33
12.10	0.02800	28.21	0.09	5.02	10.76	0.00	0.00	0.00	0.00	0.63	0.10	0.00	0.00	0.00	0.00	0.34
12.00	0.02800	28.25	0.09	5.01	10.75	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	0.34
11.90	0.02800	28.28	0.09	5.01	10.73	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	0.34
11.80	0.02800	28.32	0.09	5.01	10.71	0.00	0.00	0.00	0.00	0.64	0.10	0.00	0.00	0.00	0.00	0.34
11.70	0.02800	28.33	0.09	3.08	10.90	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	2.70
11.60	0.02800	28.34	0.09	2.33	11.05	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	2.70
11.50	0.02800	28.35	0.09	2.04	11.17	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	2.71
11.40	0.02800	28.35	0.09	1.97	11.29	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	2.67
11.30	0.02800	28.36	0.09	1.96	11.41	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	2.66
11.20	0.02800	28.37	0.09	1.96	11.50	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	2.65
11.10	0.02800	28.38	0.09	1.95	11.58	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	2.65
11.00	0.02800	28.39	0.09	1.95	11.64	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	2.65
10.90	0.02800	28.40	0.09	1.95	11.69	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	2.64
10.80	0.02800	28.41	0.09	1.95	11.74	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	2.64
10.70	0.02800	28.41	0.10	1.94	11.77	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	2.64
10.60	0.02800	28.42	0.10	1.94	11.80	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	2.64
10.50	0.02800	28.43	0.10	1.94	11.83	0.00	0.00	0.00	0.00	0.59	0.10	0.00	0.00	0.00	0.00	2.64
10.40	1.29300	28.44	0.10	2.36	10.02	0.00	0.00	0.00	0.00	0.84	0.10	0.00	0.00	0.00	0.00	2.72
10.30	1.29300	28.45	0.10	2.42	10.03	0.00	0.00	0.00	0.00	0.84	0.10	0.00	0.00	0.00	0.00	2.72
10.20	1.29300	28.46	0.10	2.48	10.04	0.00	0.00	0.00	0.00	0.84	0.10	0.00	0.00	0.00	0.00	2.73
10.10	1.29300	28.47	0.10	2.54	10.05	0.00	0.00	0.00	0.00	0.84	0.10	0.00	0.00	0.00	0.00	2.73
10.00	1.29300	28.47	0.10	2.59	10.05	0.00	0.00	0.00	0.00	0.84	0.10	0.00	0.00	0.00	0.00	2.73
9.90	1.29300	28.48	0.10	2.64	10.06	0.00	0.00	0.00	0.00	0.84	0.10	0.00	0.00	0.00	0.00	2.73
9.80	1.29300	28.49	0.10	2.69	10.07	0.00	0.00	0.00	0.00	0.84	0.10	0.00	0.00	0.00	0.00	2.73
9.70	1.29300	28.50	0.10	2.74	10.08	0.00	0.00	0.00	0.00	0.84	0.10	0.00	0.00	0.00	0.00	2.73
9.60	1.29300	28.51	0.10	2.78	10.09	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.73
9.50	1.29300	28.52	0.10	2.83	10.10	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.74
9.40	1.29300	28.53	0.10	2.87	10.11	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.74
9.30	1.29300	28.54	0.10	2.90	10.11	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.74
9.20	1.29300	28.54	0.10	2.94	10.12	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.74
9.10	1.29300	28.55	0.10	2.97	10.13	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.74
9.00	1.29300	28.56	0.10	3.01	10.14	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.74
8.90	1.29300	28.57	0.10	3.04	10.15	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.74
8.80	1.29300	28.58	0.10	3.07	10.15	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.75
8.70	1.29300	28.59	0.10	3.10	10.16	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.75

8.60	1.29300	28.60	0.10	3.12	10.17	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.75
8.50	1.29300	28.60	0.11	3.15	10.18	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.75
8.40	1.29300	28.61	0.11	3.17	10.18	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.75
8.30	1.29300	28.62	0.11	3.19	10.19	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.75
8.20	1.29300	28.63	0.11	3.22	10.20	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.76
8.10	1.29300	28.64	0.11	3.24	10.21	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.76
8.00	1.29300	28.65	0.11	3.26	10.21	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.76
7.90	1.29300	28.66	0.11	3.27	10.22	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.76
7.80	1.29300	28.66	0.11	3.29	10.23	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.76
7.70	1.29300	28.67	0.11	3.31	10.24	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.76
7.60	1.29300	28.68	0.11	3.32	10.24	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.76
7.50	1.29300	28.69	0.11	3.34	10.25	0.00	0.00	0.00	0.00	0.85	0.10	0.00	0.00	0.00	0.00	2.77
7.40	3.86160	28.70	0.11	3.35	12.34	0.00	0.00	0.00	0.00	0.99	0.10	0.00	0.00	0.00	0.00	3.46
7.30	3.86160	28.71	0.11	3.36	12.37	0.00	0.00	0.00	0.00	0.99	0.10	0.00	0.00	0.00	0.00	3.46
7.20	3.86160	28.72	0.11	3.37	12.41	0.00	0.00	0.00	0.00	0.99	0.10	0.00	0.00	0.00	0.00	3.46
7.10	3.86160	28.73	0.11	3.39	12.44	0.00	0.00	0.00	0.00	0.99	0.10	0.00	0.00	0.00	0.00	3.47
7.00	3.86160	28.74	0.11	3.40	12.47	0.00	0.00	0.00	0.00	0.99	0.10	0.00	0.00	0.00	0.00	3.47
6.90	3.86160	28.75	0.11	3.41	12.50	0.00	0.00	0.00	0.00	0.99	0.10	0.00	0.00	0.00	0.00	3.47
6.80	3.86160	28.76	0.11	3.42	12.53	0.00	0.00	0.00	0.00	0.99	0.10	0.00	0.00	0.00	0.00	3.47
6.70	3.86160	28.78	0.10	3.43	12.57	0.00	0.00	0.00	0.00	0.99	0.10	0.00	0.00	0.00	0.00	3.48
6.60	3.86160	28.79	0.10	3.44	12.60	0.00	0.00	0.00	0.00	0.99	0.10	0.00	0.00	0.00	0.00	3.48
6.50	3.86160	28.80	0.10	3.45	12.63	0.00	0.00	0.00	0.00	0.99	0.10	0.00	0.00	0.00	0.00	3.48
6.40	3.86160	28.81	0.10	3.46	12.66	0.00	0.00	0.00	0.00	0.99	0.10	0.00	0.00	0.00	0.00	3.48
6.30	3.86160	28.82	0.10	3.47	12.69	0.00	0.00	0.00	0.00	0.99	0.10	0.00	0.00	0.00	0.00	3.48
6.20	3.86160	28.83	0.10	3.47	12.73	0.00	0.00	0.00	0.00	0.99	0.11	0.00	0.00	0.00	0.00	3.49
6.10	3.86160	28.84	0.10	3.48	12.76	0.00	0.00	0.00	0.00	0.99	0.11	0.00	0.00	0.00	0.00	3.49
6.00	3.86160	28.85	0.10	3.49	12.79	0.00	0.00	0.00	0.00	0.99	0.11	0.00	0.00	0.00	0.00	3.49
5.90	8.65160	28.85	0.10	3.43	9.98	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
5.80	8.65160	28.85	0.10	3.43	9.99	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
5.70	8.65160	28.85	0.10	3.42	10.01	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
5.60	8.65160	28.85	0.10	3.42	10.02	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
5.50	8.65160	28.85	0.10	3.41	10.04	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
5.40	8.65160	28.85	0.10	3.40	10.05	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
5.30	8.65160	28.85	0.10	3.40	10.07	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
5.20	8.65160	28.85	0.10	3.39	10.08	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
5.10	8.65160	28.85	0.10	3.39	10.10	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
5.00	8.65160	28.85	0.10	3.38	10.11	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
4.90	8.65160	28.85	0.10	3.38	10.13	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
4.80	8.65160	28.85	0.10	3.37	10.14	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
4.70	8.65160	28.85	0.10	3.37	10.16	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
4.60	8.65160	28.85	0.10	3.36	10.18	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	6.11
4.50	8.65160	28.85	0.10	3.35	10.18	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
4.40	8.65160	28.85	0.10	3.35	10.18	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
4.30	8.65160	28.85	0.10	3.34	10.18	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
4.20	8.65160	28.85	0.10	3.34	10.18	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
4.10	8.65160	28.85	0.10	3.33	10.19	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
4.00	8.65160	28.85	0.10	3.32	10.19	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
3.90	8.65160	28.85	0.10	3.32	10.19	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
3.80	8.65160	28.85	0.10	3.31	10.19	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
3.70	8.65160	28.85	0.10	3.31	10.20	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
3.60	8.65160	28.85	0.10	3.30	10.20	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
3.50	8.65160	28.85	0.10	3.30	10.20	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
3.40	8.65160	28.85	0.10	3.29	10.20	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
3.30	8.65160	28.85	0.10	3.29	10.20	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
3.20	8.65160	28.85	0.10	3.28	10.21	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
3.10	8.65160	28.85	0.10	3.28	10.21	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11

3.00	8.65160	28.85	0.10	3.27	10.21	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
2.90	8.65160	28.85	0.10	3.27	10.21	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
2.80	8.65160	28.85	0.10	3.26	10.22	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
2.70	8.65160	28.85	0.10	3.26	10.22	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
2.60	8.65160	28.85	0.10	3.25	10.22	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
2.50	8.65160	28.85	0.10	3.25	10.22	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
2.40	8.65160	28.85	0.10	3.24	10.22	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
2.30	8.65160	28.85	0.10	3.24	10.23	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
2.20	8.65160	28.85	0.10	3.23	10.23	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
2.10	8.65160	28.85	0.10	3.23	10.23	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
2.00	8.65160	28.85	0.10	3.22	10.23	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
1.90	8.65160	28.85	0.10	3.22	10.24	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
1.80	8.65160	28.85	0.10	3.22	10.24	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
1.70	8.65171	28.85	0.10	3.21	10.24	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
1.60	8.65193	28.85	0.10	3.21	10.25	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
1.50	8.65193	28.85	0.10	3.20	10.25	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
1.40	8.65193	28.85	0.10	3.20	10.25	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
1.30	8.65193	28.85	0.10	3.20	10.25	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
1.20	8.65193	28.85	0.10	3.19	10.25	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
1.10	8.65193	28.85	0.10	3.19	10.26	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
1.00	8.65193	28.85	0.10	3.18	10.26	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
0.90	8.65193	28.85	0.10	3.18	10.26	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
0.80	8.65193	28.85	0.10	3.18	10.26	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
0.70	8.65193	28.85	0.10	3.17	10.27	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
0.60	8.65193	28.85	0.10	3.17	10.27	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
0.50	8.65193	28.85	0.10	3.17	10.27	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
0.40	8.65193	28.85	0.10	3.16	10.27	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
0.30	8.65193	28.85	0.10	3.16	10.27	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
0.20	8.65193	28.85	0.10	3.16	10.28	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
0.10	8.65193	28.85	0.10	3.15	10.28	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11
0.00	8.65193	28.85	0.10	3.15	10.28	0.00	0.00	0.00	0.00	0.96	0.11	0.00	0.00	0.00	0.00	6.11

CONDENSED CAPSULE SUMMARY FOR Halpin Canal

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	0.00000	0.00	0.00	3.40	6.59	0.00	0.00	0.00	0.00							
15.40	0.00504	27.21	0.12	2.58	6.48	0.00	0.00	0.00	0.00	1.01	0.10	0.00	0.00	0.00	0.00	3.62
15.30	0.01007	27.21	0.12	2.61	6.48	0.00	0.00	0.00	0.00	1.01	0.10	0.00	0.00	0.00	0.00	3.62
15.20	0.01511	27.21	0.12	2.63	6.48	0.00	0.00	0.00	0.00	1.02	0.10	0.00	0.00	0.00	0.00	3.62
15.10	0.02015	27.21	0.12	2.65	6.48	0.00	0.00	0.00	0.00	1.03	0.10	0.00	0.00	0.00	0.00	3.62
15.00	0.02519	27.21	0.12	2.67	6.48	0.00	0.00	0.00	0.00	1.03	0.10	0.00	0.00	0.00	0.00	3.62
14.90	0.03022	27.21	0.12	2.69	6.48	0.00	0.00	0.00	0.00	1.04	0.10	0.00	0.00	0.00	0.00	3.62
14.80	0.03526	27.21	0.12	2.71	6.48	0.00	0.00	0.00	0.00	1.04	0.10	0.00	0.00	0.00	0.00	3.62
14.70	0.04030	27.21	0.12	2.73	6.48	0.00	0.00	0.00	0.00	1.05	0.10	0.00	0.00	0.00	0.00	3.62
14.60	0.04534	27.21	0.12	2.75	6.48	0.00	0.00	0.00	0.00	1.06	0.10	0.00	0.00	0.00	0.00	3.62
14.50	0.05037	27.21	0.12	2.77	6.48	0.00	0.00	0.00	0.00	1.06	0.10	0.00	0.00	0.00	0.00	3.62
14.40	0.05541	27.21	0.12	2.80	6.48	0.00	0.00	0.00	0.00	1.07	0.10	0.00	0.00	0.00	0.00	3.62
14.30	0.06045	27.21	0.12	2.82	6.48	0.00	0.00	0.00	0.00	1.07	0.10	0.00	0.00	0.00	0.00	3.62
14.20	0.06549	27.21	0.12	2.84	6.48	0.00	0.00	0.00	0.00	1.08	0.10	0.00	0.00	0.00	0.00	3.62
14.10	0.07052	27.21	0.12	2.86	6.48	0.00	0.00	0.00	0.00	1.09	0.10	0.00	0.00	0.00	0.00	3.62
14.00	0.07556	27.21	0.12	2.88	6.48	0.00	0.00	0.00	0.00	1.09	0.10	0.00	0.00	0.00	0.00	3.62
13.90	0.08060	27.21	0.12	2.90	6.48	0.00	0.00	0.00	0.00	1.10	0.10	0.00	0.00	0.00	0.00	3.62
13.80	0.08563	27.21	0.12	2.92	6.48	0.00	0.00	0.00	0.00	1.11	0.10	0.00	0.00	0.00	0.00	3.62
13.70	0.09067	27.21	0.12	2.94	6.48	0.00	0.00	0.00	0.00	1.11	0.10	0.00	0.00	0.00	0.00	3.62
13.60	0.09571	27.21	0.12	2.95	6.48	0.00	0.00	0.00	0.00	1.12	0.10	0.00	0.00	0.00	0.00	3.62
13.50	0.10075	27.21	0.12	2.97	6.48	0.00	0.00	0.00	0.00	1.12	0.10	0.00	0.00	0.00	0.00	3.62
13.40	0.10578	27.21	0.12	2.99	6.48	0.00	0.00	0.00	0.00	1.13	0.10	0.00	0.00	0.00	0.00	3.62
13.30	0.11082	27.21	0.12	3.01	6.48	0.00	0.00	0.00	0.00	1.14	0.10	0.00	0.00	0.00	0.00	3.62
13.20	0.11586	27.21	0.12	3.03	6.48	0.00	0.00	0.00	0.00	1.14	0.10	0.00	0.00	0.00	0.00	3.62
13.10	0.12090	27.21	0.12	3.05	6.48	0.00	0.00	0.00	0.00	1.15	0.10	0.00	0.00	0.00	0.00	3.62
13.00	0.12593	27.21	0.12	3.07	6.48	0.00	0.00	0.00	0.00	1.15	0.10	0.00	0.00	0.00	0.00	3.62
12.90	0.13097	27.21	0.12	3.09	6.48	0.00	0.00	0.00	0.00	1.16	0.10	0.00	0.00	0.00	0.00	3.62
12.80	0.13601	27.21	0.12	3.11	6.48	0.00	0.00	0.00	0.00	1.17	0.10	0.00	0.00	0.00	0.00	3.62
12.70	0.14105	27.21	0.12	3.12	6.48	0.00	0.00	0.00	0.00	1.17	0.10	0.00	0.00	0.00	0.00	3.62
12.60	0.14608	27.21	0.12	3.14	6.48	0.00	0.00	0.00	0.00	1.18	0.10	0.00	0.00	0.00	0.00	3.62
12.50	0.15112	27.21	0.12	3.16	6.48	0.00	0.00	0.00	0.00	1.19	0.10	0.00	0.00	0.00	0.00	3.62
12.40	0.15616	27.21	0.12	3.18	6.48	0.00	0.00	0.00	0.00	1.19	0.10	0.00	0.00	0.00	0.00	3.62
12.30	0.16119	27.21	0.12	3.20	6.48	0.00	0.00	0.00	0.00	1.20	0.10	0.00	0.00	0.00	0.00	3.62
12.20	0.16623	27.21	0.12	3.21	6.48	0.00	0.00	0.00	0.00	1.20	0.10	0.00	0.00	0.00	0.00	3.62
12.10	0.17127	27.21	0.12	3.23	6.48	0.00	0.00	0.00	0.00	1.21	0.10	0.00	0.00	0.00	0.00	3.62
12.00	0.17631	27.21	0.12	3.25	6.48	0.00	0.00	0.00	0.00	1.22	0.10	0.00	0.00	0.00	0.00	3.62
11.90	0.18134	27.21	0.12	3.27	6.48	0.00	0.00	0.00	0.00	1.22	0.10	0.00	0.00	0.00	0.00	3.62
11.80	0.18638	27.21	0.12	3.28	6.48	0.00	0.00	0.00	0.00	1.23	0.10	0.00	0.00	0.00	0.00	3.62
11.70	0.19142	27.21	0.12	3.30	6.48	0.00	0.00	0.00	0.00	1.23	0.10	0.00	0.00	0.00	0.00	3.62
11.60	0.19646	27.21	0.12	3.32	6.48	0.00	0.00	0.00	0.00	1.24	0.10	0.00	0.00	0.00	0.00	3.62
11.50	0.20149	27.21	0.12	3.33	6.48	0.00	0.00	0.00	0.00	1.25	0.10	0.00	0.00	0.00	0.00	3.62
11.40	0.20653	27.21	0.12	3.35	6.48	0.00	0.00	0.00	0.00	1.25	0.10	0.00	0.00	0.00	0.00	3.62
11.30	0.21157	27.21	0.12	3.37	6.48	0.00	0.00	0.00	0.00	1.26	0.10	0.00	0.00	0.00	0.00	3.62
11.20	0.21661	27.21	0.12	3.38	6.48	0.00	0.00	0.00	0.00	1.27	0.10	0.00	0.00	0.00	0.00	3.62
11.10	0.22164	27.21	0.12	3.40	6.48	0.00	0.00	0.00	0.00	1.27	0.10	0.00	0.00	0.00	0.00	3.62
11.00	0.22668	27.21	0.12	3.42	6.48	0.00	0.00	0.00	0.00	1.28	0.10	0.00	0.00	0.00	0.00	3.62
10.90	0.23172	27.21	0.12	3.43	6.48	0.00	0.00	0.00	0.00	1.28	0.10	0.00	0.00	0.00	0.00	3.62
10.80	0.23675	27.21	0.12	3.45	6.48	0.00	0.00	0.00	0.00	1.29	0.10	0.00	0.00	0.00	0.00	3.62
10.70	0.24179	27.21	0.12	3.47	6.48	0.00	0.00	0.00	0.00	1.30	0.10	0.00	0.00	0.00	0.00	3.62
10.60	0.24683	27.21	0.12	3.48	6.48	0.00	0.00	0.00	0.00	1.30	0.10	0.00	0.00	0.00	0.00	3.62

10.50	0.25187	27.21	0.12	3.50	6.48	0.00	0.00	0.00	0.00	1.31	0.10	0.00	0.00	0.00	0.00	3.62
10.40	0.25690	27.21	0.12	3.51	6.48	0.00	0.00	0.00	0.00	1.31	0.10	0.00	0.00	0.00	0.00	3.62
10.30	0.26194	27.21	0.12	3.53	6.48	0.00	0.00	0.00	0.00	1.32	0.10	0.00	0.00	0.00	0.00	3.62
10.20	0.26698	27.21	0.12	3.54	6.48	0.00	0.00	0.00	0.00	1.33	0.10	0.00	0.00	0.00	0.00	3.62
10.10	0.27202	27.21	0.12	3.56	6.48	0.00	0.00	0.00	0.00	1.33	0.10	0.00	0.00	0.00	0.00	3.62
10.00	0.27705	27.21	0.12	3.57	6.48	0.00	0.00	0.00	0.00	1.34	0.10	0.00	0.00	0.00	0.00	3.62
9.90	0.28209	27.21	0.12	3.59	6.48	0.00	0.00	0.00	0.00	1.35	0.10	0.00	0.00	0.00	0.00	3.62
9.80	0.28713	27.21	0.12	3.61	6.48	0.00	0.00	0.00	0.00	1.35	0.10	0.00	0.00	0.00	0.00	3.62
9.70	0.29217	27.21	0.12	3.62	6.48	0.00	0.00	0.00	0.00	1.36	0.10	0.00	0.00	0.00	0.00	3.62
9.60	0.29720	27.21	0.12	3.64	6.48	0.00	0.00	0.00	0.00	1.36	0.10	0.00	0.00	0.00	0.00	3.62
9.50	0.30224	27.21	0.12	3.65	6.48	0.00	0.00	0.00	0.00	1.37	0.10	0.00	0.00	0.00	0.00	3.62
9.40	0.30728	27.21	0.12	3.67	6.48	0.00	0.00	0.00	0.00	1.38	0.10	0.00	0.00	0.00	0.00	3.62
9.30	0.31231	27.21	0.12	3.68	6.48	0.00	0.00	0.00	0.00	1.38	0.10	0.00	0.00	0.00	0.00	3.62
9.20	0.31735	27.21	0.12	3.69	6.48	0.00	0.00	0.00	0.00	1.39	0.10	0.00	0.00	0.00	0.00	3.62
9.10	0.32239	27.21	0.12	3.71	6.48	0.00	0.00	0.00	0.00	1.39	0.10	0.00	0.00	0.00	0.00	3.62
9.00	0.32743	27.21	0.12	3.72	6.48	0.00	0.00	0.00	0.00	1.40	0.10	0.00	0.00	0.00	0.00	3.62
8.90	0.33246	27.21	0.12	3.74	6.48	0.00	0.00	0.00	0.00	1.41	0.10	0.00	0.00	0.00	0.00	3.62
8.80	0.33750	27.21	0.12	3.75	6.48	0.00	0.00	0.00	0.00	1.41	0.10	0.00	0.00	0.00	0.00	3.62
8.70	0.34254	27.21	0.12	3.77	6.48	0.00	0.00	0.00	0.00	1.42	0.10	0.00	0.00	0.00	0.00	3.62
8.60	0.34758	27.21	0.12	3.78	6.48	0.00	0.00	0.00	0.00	1.43	0.10	0.00	0.00	0.00	0.00	3.62
8.50	0.35261	27.21	0.12	3.79	6.48	0.00	0.00	0.00	0.00	1.43	0.10	0.00	0.00	0.00	0.00	3.62
8.40	1.39765	27.21	0.12	1.74	6.52	0.00	0.00	0.00	0.00	2.71	0.08	0.00	0.00	0.00	0.00	3.15
8.30	1.40269	27.21	0.12	1.90	6.52	0.00	0.00	0.00	0.00	2.71	0.09	0.00	0.00	0.00	0.00	3.45
8.20	1.40773	27.21	0.12	2.06	6.52	0.00	0.00	0.00	0.00	2.72	0.10	0.00	0.00	0.00	0.00	3.62
8.10	1.41276	27.21	0.12	2.21	6.52	0.00	0.00	0.00	0.00	2.73	0.10	0.00	0.00	0.00	0.00	3.62
8.00	1.41780	27.21	0.12	2.35	6.52	0.00	0.00	0.00	0.00	2.73	0.10	0.00	0.00	0.00	0.00	3.62
7.90	1.42284	27.23	0.12	2.34	6.87	0.00	0.00	0.00	0.00	1.61	0.10	0.00	0.00	0.00	0.00	9.46
7.80	1.42787	27.26	0.12	2.32	7.23	0.00	0.00	0.00	0.00	1.62	0.10	0.00	0.00	0.00	0.00	9.48
7.70	1.43291	27.28	0.12	2.31	7.58	0.00	0.00	0.00	0.00	1.62	0.10	0.00	0.00	0.00	0.00	9.49
7.60	1.43795	27.31	0.12	2.29	7.92	0.00	0.00	0.00	0.00	1.62	0.10	0.00	0.00	0.00	0.00	9.51
7.50	1.44298	27.33	0.12	2.28	8.27	0.00	0.00	0.00	0.00	1.63	0.10	0.00	0.00	0.00	0.00	9.52
7.40	1.44802	27.35	0.12	2.26	8.61	0.00	0.00	0.00	0.00	1.63	0.10	0.00	0.00	0.00	0.00	9.53
7.30	1.45305	27.38	0.12	2.25	8.95	0.00	0.00	0.00	0.00	1.64	0.10	0.00	0.00	0.00	0.00	9.55
7.20	1.45809	27.40	0.12	2.23	9.28	0.00	0.00	0.00	0.00	1.64	0.10	0.00	0.00	0.00	0.00	9.56
7.10	1.46313	27.43	0.12	2.22	9.61	0.00	0.00	0.00	0.00	1.64	0.10	0.00	0.00	0.00	0.00	9.58
7.00	1.46816	27.45	0.12	2.20	9.94	0.00	0.00	0.00	0.00	1.65	0.10	0.00	0.00	0.00	0.00	9.59
6.90	1.47320	27.47	0.12	2.18	10.27	0.00	0.00	0.00	0.00	1.65	0.10	0.00	0.00	0.00	0.00	9.61
6.80	1.47824	27.50	0.12	2.17	10.59	0.00	0.00	0.00	0.00	1.65	0.10	0.00	0.00	0.00	0.00	9.62
6.70	1.48327	27.52	0.12	2.15	10.91	0.00	0.00	0.00	0.00	1.66	0.10	0.00	0.00	0.00	0.00	9.64
6.60	1.48831	27.55	0.12	2.14	11.23	0.00	0.00	0.00	0.00	1.66	0.10	0.00	0.00	0.00	0.00	9.65
6.50	1.49335	27.57	0.12	2.12	11.54	0.00	0.00	0.00	0.00	1.67	0.10	0.00	0.00	0.00	0.00	9.67
6.40	1.49838	27.60	0.12	2.10	11.85	0.00	0.00	0.00	0.00	1.67	0.10	0.00	0.00	0.00	0.00	9.68
6.30	1.50342	27.62	0.12	2.09	12.16	0.00	0.00	0.00	0.00	1.67	0.10	0.00	0.00	0.00	0.00	9.69
6.20	1.50845	27.64	0.12	2.07	12.47	0.00	0.00	0.00	0.00	1.68	0.10	0.00	0.00	0.00	0.00	9.71
6.10	2.55349	27.67	0.12	1.62	10.24	0.00	0.00	0.00	0.00	2.34	0.08	0.00	0.00	0.00	0.00	7.89
6.00	2.55853	27.69	0.12	1.69	10.42	0.00	0.00	0.00	0.00	2.34	0.08	0.00	0.00	0.00	0.00	8.22
5.90	2.56356	27.72	0.12	1.75	10.61	0.00	0.00	0.00	0.00	2.34	0.09	0.00	0.00	0.00	0.00	8.53
5.80	2.56860	27.74	0.12	1.80	10.80	0.00	0.00	0.00	0.00	2.35	0.09	0.00	0.00	0.00	0.00	8.81
5.70	2.56860	27.76	0.12	1.86	10.84	0.00	0.00	0.00	0.00	1.54	0.09	0.00	0.00	0.00	0.00	5.31
5.60	2.56860	27.77	0.12	1.92	10.89	0.00	0.00	0.00	0.00	1.54	0.10	0.00	0.00	0.00	0.00	5.47
5.50	2.56860	27.79	0.12	1.97	10.94	0.00	0.00	0.00	0.00	1.54	0.10	0.00	0.00	0.00	0.00	5.62
5.40	2.56860	27.81	0.12	2.02	10.98	0.00	0.00	0.00	0.00	1.54	0.10	0.00	0.00	0.00	0.00	5.72
5.30	2.56860	27.82	0.12	2.06	11.03	0.00	0.00	0.00	0.00	1.54	0.10	0.00	0.00	0.00	0.00	5.73
5.20	2.56860	27.84	0.12	2.11	11.07	0.00	0.00	0.00	0.00	1.54	0.10	0.00	0.00	0.00	0.00	5.73
5.10	2.56860	27.85	0.12	2.16	11.12	0.00	0.00	0.00	0.00	1.54	0.10	0.00	0.00	0.00	0.00	5.74
5.00	2.56860	27.87	0.12	2.20	11.17	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.75

4.90	2.56860	27.89	0.12	2.24	11.21	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.75
4.80	2.56860	27.90	0.12	2.28	11.26	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.76
4.70	2.56860	27.92	0.12	2.32	11.30	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.76
4.60	2.56860	27.94	0.12	2.36	11.35	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.77
4.50	2.56860	27.95	0.12	2.40	11.39	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.78
4.40	2.56860	27.97	0.12	2.44	11.44	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.78
4.30	2.56860	27.99	0.12	2.48	11.48	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.79
4.20	2.56860	28.00	0.12	2.51	11.53	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.79
4.10	2.56860	28.02	0.12	2.55	11.57	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.80
4.00	2.56860	28.03	0.12	2.58	11.62	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.81
3.90	2.56860	28.05	0.12	2.61	11.66	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.81
3.80	2.56860	28.07	0.12	2.64	11.71	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.82
3.70	2.56860	28.08	0.12	2.67	11.75	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.82
3.60	2.56860	28.10	0.12	2.70	11.80	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.83
3.50	2.56860	28.12	0.12	2.73	11.84	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.84
3.40	2.56860	28.13	0.12	2.76	11.89	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.84
3.30	2.56860	28.15	0.12	2.79	11.93	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.85
3.20	2.56860	28.17	0.12	2.81	11.97	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.85
3.10	2.56860	28.18	0.12	2.84	12.02	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.86
3.00	2.56860	28.20	0.12	2.86	12.06	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.87
2.90	2.56860	28.22	0.12	2.89	12.11	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.87
2.80	2.56860	28.23	0.12	2.91	12.15	0.00	0.00	0.00	0.00	1.55	0.10	0.00	0.00	0.00	0.00	5.88
2.70	2.56860	28.25	0.12	2.94	12.19	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.88
2.60	2.56860	28.26	0.12	2.96	12.24	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.89
2.50	2.56860	28.28	0.12	2.98	12.28	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.90
2.40	2.56860	28.30	0.12	3.00	12.32	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.90
2.30	2.56860	28.31	0.12	3.02	12.37	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.91
2.20	2.56860	28.33	0.12	3.04	12.41	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.91
2.10	2.56860	28.35	0.12	3.06	12.45	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.92
2.00	2.56860	28.36	0.12	3.08	12.50	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.93
1.90	2.56860	28.38	0.11	3.09	12.54	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.93
1.80	2.56860	28.40	0.11	3.11	12.58	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.94
1.70	2.56860	28.41	0.11	3.13	12.63	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.94
1.60	2.56860	28.43	0.11	3.14	12.67	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.95
1.50	2.56860	28.44	0.11	3.16	12.71	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.96
1.40	2.56860	28.46	0.11	3.17	12.76	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.96
1.30	2.56860	28.48	0.11	3.19	12.80	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.97
1.20	2.56860	28.49	0.11	3.20	12.84	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.98
1.10	2.56860	28.51	0.11	3.21	12.88	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.98
1.00	2.56860	28.53	0.11	3.23	12.93	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.99
0.90	2.56860	28.54	0.11	3.24	12.97	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	5.99
0.80	2.56860	28.56	0.11	3.25	13.01	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	6.00
0.70	2.56860	28.58	0.11	3.26	13.05	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	6.01
0.60	2.56860	28.59	0.11	3.27	13.09	0.00	0.00	0.00	0.00	1.56	0.10	0.00	0.00	0.00	0.00	6.01
0.50	2.56860	28.61	0.11	3.28	13.14	0.00	0.00	0.00	0.00	1.57	0.10	0.00	0.00	0.00	0.00	6.02
0.40	2.56860	28.62	0.11	3.29	13.18	0.00	0.00	0.00	0.00	1.57	0.10	0.00	0.00	0.00	0.00	6.02
0.30	2.56860	28.64	0.11	3.30	13.22	0.00	0.00	0.00	0.00	1.57	0.10	0.00	0.00	0.00	0.00	6.03
0.20	2.56860	28.66	0.11	3.31	13.26	0.00	0.00	0.00	0.00	1.57	0.10	0.00	0.00	0.00	0.00	6.04
0.10	2.56860	28.67	0.11	3.32	13.30	0.00	0.00	0.00	0.00	1.57	0.10	0.00	0.00	0.00	0.00	6.04
0.00	2.56860	28.69	0.11	3.33	13.35	0.00	0.00	0.00	0.00	1.57	0.10	0.00	0.00	0.00	0.00	6.05

CONDENSED CAPSULE SUMMARY FOR Grand Bayou

DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORGN	NH3	CHLA	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD

km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	2.18000	0.00	0.00	2.40	8.41	0.00	0.00	0.00	0.00							
21.90	2.18913	26.82	0.08	2.40	8.43	0.00	0.00	0.00	0.00	2.60	0.07	0.00	0.00	0.00	0.00	12.29
21.80	2.19825	26.82	0.08	2.39	8.44	0.00	0.00	0.00	0.00	2.61	0.07	0.00	0.00	0.00	0.00	12.29
21.70	2.20738	26.82	0.08	2.39	8.46	0.00	0.00	0.00	0.00	2.61	0.07	0.00	0.00	0.00	0.00	12.29
21.60	2.21651	26.82	0.08	2.39	8.48	0.00	0.00	0.00	0.00	2.62	0.07	0.00	0.00	0.00	0.00	12.29
21.50	2.22564	26.82	0.08	2.39	8.50	0.00	0.00	0.00	0.00	2.63	0.07	0.00	0.00	0.00	0.00	12.29
21.40	2.23476	26.82	0.08	2.39	8.51	0.00	0.00	0.00	0.00	2.64	0.07	0.00	0.00	0.00	0.00	12.29
21.30	2.24389	26.82	0.08	2.39	8.53	0.00	0.00	0.00	0.00	2.64	0.07	0.00	0.00	0.00	0.00	12.29
21.20	2.25302	26.82	0.08	2.39	8.54	0.00	0.00	0.00	0.00	2.65	0.07	0.00	0.00	0.00	0.00	12.29
21.10	2.26215	26.82	0.08	2.39	8.56	0.00	0.00	0.00	0.00	2.66	0.07	0.00	0.00	0.00	0.00	12.29
21.00	2.27127	26.82	0.08	2.39	8.58	0.00	0.00	0.00	0.00	2.67	0.07	0.00	0.00	0.00	0.00	12.29
20.90	2.28040	26.82	0.08	2.39	8.59	0.00	0.00	0.00	0.00	2.67	0.07	0.00	0.00	0.00	0.00	12.29
20.80	2.28953	26.82	0.08	2.39	8.61	0.00	0.00	0.00	0.00	2.68	0.07	0.00	0.00	0.00	0.00	12.29
20.70	2.29866	26.82	0.08	2.39	8.62	0.00	0.00	0.00	0.00	2.69	0.07	0.00	0.00	0.00	0.00	12.29
20.60	2.30778	26.82	0.08	2.39	8.64	0.00	0.00	0.00	0.00	2.70	0.07	0.00	0.00	0.00	0.00	12.29
20.50	2.31691	26.82	0.08	2.39	8.66	0.00	0.00	0.00	0.00	2.70	0.07	0.00	0.00	0.00	0.00	12.29
20.40	2.32604	26.82	0.08	2.39	8.67	0.00	0.00	0.00	0.00	2.71	0.07	0.00	0.00	0.00	0.00	12.29
20.30	2.33517	26.82	0.08	2.40	8.69	0.00	0.00	0.00	0.00	2.72	0.07	0.00	0.00	0.00	0.00	12.29
20.20	2.34429	26.82	0.08	2.40	8.70	0.00	0.00	0.00	0.00	2.73	0.07	0.00	0.00	0.00	0.00	12.29
20.10	2.35342	26.82	0.08	2.40	8.72	0.00	0.00	0.00	0.00	2.74	0.07	0.00	0.00	0.00	0.00	12.29
20.00	2.36255	26.82	0.08	2.40	8.73	0.00	0.00	0.00	0.00	2.74	0.07	0.00	0.00	0.00	0.00	12.29
19.90	2.37168	26.82	0.08	2.41	8.75	0.00	0.00	0.00	0.00	2.75	0.07	0.00	0.00	0.00	0.00	12.29
19.80	2.38080	26.82	0.08	2.41	8.76	0.00	0.00	0.00	0.00	2.76	0.07	0.00	0.00	0.00	0.00	12.29
19.70	2.38993	26.82	0.08	2.32	8.76	0.00	0.00	0.00	0.00	1.02	0.07	0.00	0.00	0.00	0.00	10.76
19.60	3.43906	26.82	0.08	2.15	9.12	0.00	0.00	0.00	0.00	1.25	0.07	0.00	0.00	0.00	0.00	10.76
19.50	3.44819	26.82	0.08	2.12	9.12	0.00	0.00	0.00	0.00	1.25	0.07	0.00	0.00	0.00	0.00	10.76
19.40	3.45731	26.82	0.08	2.08	9.13	0.00	0.00	0.00	0.00	1.25	0.07	0.00	0.00	0.00	0.00	10.76
19.30	3.46644	26.82	0.08	2.05	9.13	0.00	0.00	0.00	0.00	1.25	0.07	0.00	0.00	0.00	0.00	10.76
19.20	3.47557	26.82	0.08	2.02	9.13	0.00	0.00	0.00	0.00	1.26	0.07	0.00	0.00	0.00	0.00	10.76
19.10	3.48470	26.82	0.08	1.99	9.13	0.00	0.00	0.00	0.00	1.26	0.07	0.00	0.00	0.00	0.00	10.68
19.00	3.49383	26.82	0.08	1.96	9.13	0.00	0.00	0.00	0.00	1.26	0.07	0.00	0.00	0.00	0.00	10.53
18.90	3.50296	26.82	0.08	1.93	9.13	0.00	0.00	0.00	0.00	1.26	0.07	0.00	0.00	0.00	0.00	10.39
18.80	3.51208	26.82	0.08	1.91	9.13	0.00	0.00	0.00	0.00	1.26	0.07	0.00	0.00	0.00	0.00	10.27
18.70	3.52121	26.82	0.08	1.89	9.13	0.00	0.00	0.00	0.00	1.27	0.06	0.00	0.00	0.00	0.00	10.17
18.60	3.53034	26.82	0.08	1.87	9.13	0.00	0.00	0.00	0.00	1.27	0.06	0.00	0.00	0.00	0.00	10.07
18.50	3.53947	26.82	0.08	1.86	9.13	0.00	0.00	0.00	0.00	1.27	0.06	0.00	0.00	0.00	0.00	9.98
18.40	3.54860	26.82	0.08	1.84	9.14	0.00	0.00	0.00	0.00	1.27	0.06	0.00	0.00	0.00	0.00	9.91
18.30	3.55772	26.82	0.08	1.83	9.14	0.00	0.00	0.00	0.00	1.27	0.06	0.00	0.00	0.00	0.00	9.84
18.20	3.56685	26.82	0.08	1.82	9.14	0.00	0.00	0.00	0.00	1.28	0.06	0.00	0.00	0.00	0.00	9.78
18.10	3.57598	26.82	0.08	1.81	9.14	0.00	0.00	0.00	0.00	1.28	0.06	0.00	0.00	0.00	0.00	9.72
18.00	3.58511	26.82	0.08	1.80	9.14	0.00	0.00	0.00	0.00	1.28	0.06	0.00	0.00	0.00	0.00	9.67
17.90	3.59424	26.82	0.08	1.79	9.14	0.00	0.00	0.00	0.00	1.28	0.06	0.00	0.00	0.00	0.00	9.63
17.80	3.60336	26.82	0.08	1.78	9.15	0.00	0.00	0.00	0.00	1.28	0.06	0.00	0.00	0.00	0.00	9.59
17.70	3.61249	26.82	0.08	1.78	9.15	0.00	0.00	0.00	0.00	1.29	0.06	0.00	0.00	0.00	0.00	9.56
17.60	3.62162	26.82	0.08	1.77	9.15	0.00	0.00	0.00	0.00	1.29	0.06	0.00	0.00	0.00	0.00	9.53
17.50	3.63075	26.82	0.08	1.77	9.15	0.00	0.00	0.00	0.00	1.29	0.06	0.00	0.00	0.00	0.00	9.50
17.40	3.63988	26.82	0.08	1.76	9.15	0.00	0.00	0.00	0.00	1.29	0.06	0.00	0.00	0.00	0.00	9.48
17.30	3.64900	26.82	0.08	1.76	9.16	0.00	0.00	0.00	0.00	1.29	0.06	0.00	0.00	0.00	0.00	9.46
17.20	3.65813	26.82	0.08	1.77	9.15	0.00	0.00	0.00	0.00	2.29	0.06	0.00	0.00	0.00	0.00	12.26
17.10	3.66726	26.82	0.08	1.78	9.14	0.00	0.00	0.00	0.00	2.30	0.06	0.00	0.00	0.00	0.00	12.34
17.00	3.67639	26.82	0.08	1.80	9.13	0.00	0.00	0.00	0.00	2.30	0.06	0.00	0.00	0.00	0.00	12.41
16.90	3.68552	26.82	0.08	1.81	9.12	0.00	0.00	0.00	0.00	2.31	0.06	0.00	0.00	0.00	0.00	12.48
16.80	3.69465	26.82	0.08	1.81	9.11	0.00	0.00	0.00	0.00	2.31	0.06	0.00	0.00	0.00	0.00	12.55
16.70	3.70378	26.82	0.08	1.82	9.11	0.00	0.00	0.00	0.00	2.31	0.06	0.00	0.00	0.00	0.00	12.61

16.60	3.71291	26.82	0.08	1.83	9.10	0.00	0.00	0.00	0.00	2.32	0.06	0.00	0.00	0.00	0.00	12.66
16.50	3.72204	26.82	0.08	1.84	9.09	0.00	0.00	0.00	0.00	2.32	0.06	0.00	0.00	0.00	0.00	12.71
16.40	3.73117	26.82	0.08	1.85	9.08	0.00	0.00	0.00	0.00	2.33	0.06	0.00	0.00	0.00	0.00	12.76
16.30	3.74030	26.82	0.08	1.85	9.08	0.00	0.00	0.00	0.00	2.33	0.06	0.00	0.00	0.00	0.00	12.81
16.20	3.74942	26.82	0.08	1.86	9.07	0.00	0.00	0.00	0.00	2.33	0.06	0.00	0.00	0.00	0.00	12.85
16.10	3.75855	26.82	0.08	1.86	9.06	0.00	0.00	0.00	0.00	2.34	0.06	0.00	0.00	0.00	0.00	12.89
16.00	3.76768	26.82	0.08	1.87	9.05	0.00	0.00	0.00	0.00	2.34	0.06	0.00	0.00	0.00	0.00	12.93
15.90	3.77681	26.82	0.08	1.88	9.04	0.00	0.00	0.00	0.00	2.35	0.06	0.00	0.00	0.00	0.00	12.97
15.80	3.78594	26.82	0.08	1.88	9.04	0.00	0.00	0.00	0.00	2.35	0.06	0.00	0.00	0.00	0.00	13.00
15.70	3.79507	26.82	0.08	1.89	9.03	0.00	0.00	0.00	0.00	2.35	0.06	0.00	0.00	0.00	0.00	13.04
15.60	3.80420	26.82	0.08	1.89	9.02	0.00	0.00	0.00	0.00	2.36	0.06	0.00	0.00	0.00	0.00	13.07
15.50	3.81333	26.82	0.08	1.89	9.01	0.00	0.00	0.00	0.00	2.36	0.06	0.00	0.00	0.00	0.00	13.10
15.40	3.82246	26.82	0.08	1.90	9.01	0.00	0.00	0.00	0.00	2.37	0.06	0.00	0.00	0.00	0.00	13.13
15.30	3.83159	26.82	0.08	1.90	9.00	0.00	0.00	0.00	0.00	2.37	0.07	0.00	0.00	0.00	0.00	13.15
15.20	3.84071	26.82	0.08	1.91	8.99	0.00	0.00	0.00	0.00	2.37	0.07	0.00	0.00	0.00	0.00	13.18
15.10	3.84984	26.82	0.08	1.91	8.98	0.00	0.00	0.00	0.00	2.38	0.07	0.00	0.00	0.00	0.00	13.21
15.00	3.85897	26.82	0.08	1.91	8.98	0.00	0.00	0.00	0.00	2.38	0.07	0.00	0.00	0.00	0.00	13.23
14.90	3.86810	26.82	0.08	1.92	8.97	0.00	0.00	0.00	0.00	2.39	0.07	0.00	0.00	0.00	0.00	13.26
14.80	3.87723	26.82	0.08	1.93	8.96	0.00	0.00	0.00	0.00	2.47	0.07	0.00	0.00	0.00	0.00	14.07
14.70	3.88636	26.82	0.08	1.94	8.95	0.00	0.00	0.00	0.00	2.47	0.07	0.00	0.00	0.00	0.00	14.13
14.60	3.89549	26.82	0.08	1.95	8.95	0.00	0.00	0.00	0.00	2.48	0.07	0.00	0.00	0.00	0.00	14.20
14.50	3.90461	26.82	0.08	1.95	8.94	0.00	0.00	0.00	0.00	2.48	0.07	0.00	0.00	0.00	0.00	14.26
14.40	3.91374	26.82	0.08	1.96	8.94	0.00	0.00	0.00	0.00	2.49	0.07	0.00	0.00	0.00	0.00	14.32
14.30	3.92287	26.82	0.08	1.97	8.93	0.00	0.00	0.00	0.00	2.49	0.07	0.00	0.00	0.00	0.00	14.38
14.20	3.93200	26.82	0.08	1.98	8.92	0.00	0.00	0.00	0.00	2.49	0.07	0.00	0.00	0.00	0.00	14.43
14.10	3.94113	26.82	0.08	1.98	8.92	0.00	0.00	0.00	0.00	2.50	0.07	0.00	0.00	0.00	0.00	14.48
14.00	3.95025	26.82	0.08	1.99	8.91	0.00	0.00	0.00	0.00	2.50	0.07	0.00	0.00	0.00	0.00	14.53
13.90	3.95938	26.82	0.08	2.00	8.90	0.00	0.00	0.00	0.00	2.51	0.07	0.00	0.00	0.00	0.00	14.58
13.80	3.96851	26.82	0.08	2.00	8.90	0.00	0.00	0.00	0.00	2.51	0.07	0.00	0.00	0.00	0.00	14.60
13.70	3.97764	26.82	0.08	2.01	8.89	0.00	0.00	0.00	0.00	2.52	0.07	0.00	0.00	0.00	0.00	14.60
13.60	3.98677	26.82	0.08	2.02	8.88	0.00	0.00	0.00	0.00	2.52	0.07	0.00	0.00	0.00	0.00	14.60
13.50	3.99590	26.82	0.08	2.02	8.88	0.00	0.00	0.00	0.00	2.53	0.07	0.00	0.00	0.00	0.00	14.60
13.40	4.00502	26.82	0.08	2.03	8.87	0.00	0.00	0.00	0.00	2.53	0.07	0.00	0.00	0.00	0.00	14.60
13.30	4.01415	26.82	0.08	2.04	8.86	0.00	0.00	0.00	0.00	2.53	0.07	0.00	0.00	0.00	0.00	14.60
13.20	4.02328	26.82	0.08	2.04	8.86	0.00	0.00	0.00	0.00	2.54	0.07	0.00	0.00	0.00	0.00	14.60
13.10	4.03241	26.82	0.08	2.05	8.85	0.00	0.00	0.00	0.00	2.54	0.07	0.00	0.00	0.00	0.00	14.60
13.00	4.04154	26.82	0.08	2.06	8.85	0.00	0.00	0.00	0.00	2.55	0.07	0.00	0.00	0.00	0.00	14.60
12.90	4.05066	26.82	0.08	2.06	8.84	0.00	0.00	0.00	0.00	2.55	0.07	0.00	0.00	0.00	0.00	14.60
12.80	4.05979	26.82	0.08	2.07	8.83	0.00	0.00	0.00	0.00	2.56	0.07	0.00	0.00	0.00	0.00	14.60
12.70	4.06892	26.82	0.08	2.08	8.83	0.00	0.00	0.00	0.00	2.56	0.07	0.00	0.00	0.00	0.00	14.60
12.60	4.07805	26.82	0.08	2.08	8.82	0.00	0.00	0.00	0.00	2.56	0.07	0.00	0.00	0.00	0.00	14.60
12.50	4.08718	26.82	0.08	2.09	8.82	0.00	0.00	0.00	0.00	2.57	0.07	0.00	0.00	0.00	0.00	14.60
12.40	4.09630	26.82	0.08	2.10	8.81	0.00	0.00	0.00	0.00	2.57	0.07	0.00	0.00	0.00	0.00	14.60
12.30	4.10543	26.88	0.08	2.10	8.80	0.00	0.00	0.00	0.00	1.75	0.07	0.00	0.00	0.00	0.00	10.03
12.20	4.11456	26.94	0.08	2.11	8.79	0.00	0.00	0.00	0.00	1.76	0.07	0.00	0.00	0.00	0.00	10.06
12.10	4.12368	27.00	0.08	2.12	8.79	0.00	0.00	0.00	0.00	1.76	0.07	0.00	0.00	0.00	0.00	10.10
12.00	4.13281	27.06	0.08	2.13	8.78	0.00	0.00	0.00	0.00	1.77	0.07	0.00	0.00	0.00	0.00	10.14
11.90	4.14194	27.13	0.08	2.13	8.77	0.00	0.00	0.00	0.00	1.77	0.07	0.00	0.00	0.00	0.00	10.18
11.80	4.15106	27.19	0.08	2.14	8.76	0.00	0.00	0.00	0.00	1.78	0.07	0.00	0.00	0.00	0.00	10.22
11.70	4.16019	27.25	0.08	2.14	8.75	0.00	0.00	0.00	0.00	1.78	0.07	0.00	0.00	0.00	0.00	10.26
11.60	4.16931	27.31	0.08	2.15	8.75	0.00	0.00	0.00	0.00	1.79	0.07	0.00	0.00	0.00	0.00	10.30
11.50	4.17844	27.37	0.08	2.16	8.74	0.00	0.00	0.00	0.00	1.79	0.07	0.00	0.00	0.00	0.00	10.34
11.40	4.18757	27.43	0.08	2.16	8.73	0.00	0.00	0.00	0.00	1.79	0.07	0.00	0.00	0.00	0.00	10.38
11.30	4.19669	27.49	0.08	2.16	8.72	0.00	0.00	0.00	0.00	1.80	0.07	0.00	0.00	0.00	0.00	10.42
11.20	4.20582	27.55	0.08	2.17	8.72	0.00	0.00	0.00	0.00	1.80	0.07	0.00	0.00	0.00	0.00	10.46
11.10	4.21494	27.61	0.08	2.17	8.71	0.00	0.00	0.00	0.00	1.81	0.07	0.00	0.00	0.00	0.00	10.50

11.00	4.22407	27.67	0.08	2.17	8.70	0.00	0.00	0.00	0.00	1.81	0.07	0.00	0.00	0.00	0.00	10.54
10.90	4.23320	27.74	0.08	2.18	8.69	0.00	0.00	0.00	0.00	1.82	0.07	0.00	0.00	0.00	0.00	10.58
10.80	4.24232	27.80	0.08	2.18	8.69	0.00	0.00	0.00	0.00	1.82	0.07	0.00	0.00	0.00	0.00	10.62
10.70	4.25145	27.86	0.08	2.18	8.68	0.00	0.00	0.00	0.00	1.83	0.07	0.00	0.00	0.00	0.00	10.66
10.60	4.26058	27.92	0.08	2.18	8.67	0.00	0.00	0.00	0.00	1.83	0.07	0.00	0.00	0.00	0.00	10.70
10.50	4.26970	27.98	0.08	2.19	8.66	0.00	0.00	0.00	0.00	1.84	0.07	0.00	0.00	0.00	0.00	10.74
10.40	4.27883	27.98	0.08	2.21	8.65	0.00	0.00	0.00	0.00	1.26	0.07	0.00	0.00	0.00	0.00	4.96
10.30	4.28795	27.98	0.08	2.23	8.64	0.00	0.00	0.00	0.00	1.26	0.07	0.00	0.00	0.00	0.00	4.96
10.20	4.29708	27.98	0.08	2.25	8.63	0.00	0.00	0.00	0.00	1.26	0.07	0.00	0.00	0.00	0.00	4.96
10.10	4.30621	27.98	0.08	2.28	8.62	0.00	0.00	0.00	0.00	1.26	0.07	0.00	0.00	0.00	0.00	4.96
10.00	4.31533	27.98	0.08	2.30	8.61	0.00	0.00	0.00	0.00	1.26	0.07	0.00	0.00	0.00	0.00	4.96
9.90	4.32446	27.98	0.08	2.32	8.60	0.00	0.00	0.00	0.00	1.26	0.07	0.00	0.00	0.00	0.00	4.96
9.80	4.33359	27.98	0.08	2.34	8.59	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	4.96
9.70	4.34271	27.98	0.08	2.36	8.58	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	4.96
9.60	4.35184	27.98	0.08	2.38	8.57	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	4.96
9.50	4.36096	27.98	0.08	2.40	8.56	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	4.96
9.40	4.37009	27.98	0.08	2.42	8.55	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	4.96
9.30	4.37922	27.98	0.08	2.44	8.54	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	4.96
9.20	4.38834	27.98	0.08	2.46	8.53	0.00	0.00	0.00	0.00	1.28	0.07	0.00	0.00	0.00	0.00	4.96
9.10	4.39747	27.98	0.08	2.48	8.52	0.00	0.00	0.00	0.00	1.28	0.07	0.00	0.00	0.00	0.00	4.96
9.00	4.40659	27.98	0.08	2.50	8.51	0.00	0.00	0.00	0.00	1.28	0.07	0.00	0.00	0.00	0.00	4.96
8.90	4.41572	27.98	0.08	2.52	8.50	0.00	0.00	0.00	0.00	1.28	0.07	0.00	0.00	0.00	0.00	4.96
8.80	4.42485	27.98	0.08	2.54	8.49	0.00	0.00	0.00	0.00	1.28	0.07	0.00	0.00	0.00	0.00	4.96
8.70	4.43397	27.98	0.08	2.55	8.48	0.00	0.00	0.00	0.00	1.28	0.07	0.00	0.00	0.00	0.00	4.96
8.60	4.44310	27.98	0.08	2.57	8.47	0.00	0.00	0.00	0.00	1.29	0.07	0.00	0.00	0.00	0.00	4.96
8.50	4.45223	27.98	0.08	2.57	8.46	0.00	0.00	0.00	0.00	1.30	0.07	0.00	0.00	0.00	0.00	7.44
8.40	4.46136	27.98	0.08	2.57	8.45	0.00	0.00	0.00	0.00	1.30	0.07	0.00	0.00	0.00	0.00	7.44
8.30	4.47049	27.98	0.08	2.57	8.44	0.00	0.00	0.00	0.00	1.30	0.07	0.00	0.00	0.00	0.00	7.44
8.20	4.47962	27.98	0.08	2.56	8.43	0.00	0.00	0.00	0.00	1.30	0.07	0.00	0.00	0.00	0.00	7.44
8.10	4.48875	27.98	0.08	2.56	8.42	0.00	0.00	0.00	0.00	1.30	0.07	0.00	0.00	0.00	0.00	7.44
8.00	4.49788	27.98	0.08	2.56	8.41	0.00	0.00	0.00	0.00	1.31	0.07	0.00	0.00	0.00	0.00	7.44
7.90	4.50701	27.98	0.08	2.56	8.41	0.00	0.00	0.00	0.00	1.31	0.07	0.00	0.00	0.00	0.00	7.44
7.80	4.51614	27.98	0.08	2.56	8.40	0.00	0.00	0.00	0.00	1.31	0.07	0.00	0.00	0.00	0.00	7.44
7.70	4.52527	27.98	0.08	2.56	8.39	0.00	0.00	0.00	0.00	1.31	0.07	0.00	0.00	0.00	0.00	7.44
7.60	4.53440	27.98	0.08	2.56	8.38	0.00	0.00	0.00	0.00	1.31	0.07	0.00	0.00	0.00	0.00	7.44
7.50	4.54353	27.98	0.08	2.56	8.37	0.00	0.00	0.00	0.00	1.31	0.07	0.00	0.00	0.00	0.00	7.44
7.40	4.55266	27.98	0.08	2.56	8.36	0.00	0.00	0.00	0.00	1.32	0.07	0.00	0.00	0.00	0.00	7.44
7.30	4.56179	27.98	0.08	2.56	8.35	0.00	0.00	0.00	0.00	1.32	0.07	0.00	0.00	0.00	0.00	7.44
7.20	4.57092	27.98	0.08	2.56	8.35	0.00	0.00	0.00	0.00	1.32	0.07	0.00	0.00	0.00	0.00	7.44
7.10	4.58005	27.98	0.08	2.56	8.34	0.00	0.00	0.00	0.00	1.32	0.07	0.00	0.00	0.00	0.00	7.44
7.00	4.58918	27.98	0.08	2.56	8.33	0.00	0.00	0.00	0.00	1.32	0.07	0.00	0.00	0.00	0.00	7.44
6.90	4.59831	27.98	0.08	2.56	8.32	0.00	0.00	0.00	0.00	1.33	0.07	0.00	0.00	0.00	0.00	7.44
6.80	4.60744	27.98	0.08	2.56	8.31	0.00	0.00	0.00	0.00	1.33	0.07	0.00	0.00	0.00	0.00	7.44
6.70	4.61657	27.98	0.08	2.56	8.30	0.00	0.00	0.00	0.00	1.33	0.07	0.00	0.00	0.00	0.00	7.44
6.60	4.62570	27.98	0.08	2.57	8.30	0.00	0.00	0.00	0.00	1.33	0.07	0.00	0.00	0.00	0.00	7.44
6.50	4.63483	27.98	0.08	2.57	8.29	0.00	0.00	0.00	0.00	1.45	0.07	0.00	0.00	0.00	0.00	7.44
6.40	4.64395	27.98	0.08	2.57	8.28	0.00	0.00	0.00	0.00	1.45	0.07	0.00	0.00	0.00	0.00	7.44
6.30	4.65308	27.98	0.08	2.58	8.27	0.00	0.00	0.00	0.00	1.45	0.07	0.00	0.00	0.00	0.00	7.44
6.20	4.66221	27.98	0.08	2.58	8.26	0.00	0.00	0.00	0.00	1.45	0.07	0.00	0.00	0.00	0.00	7.44
6.10	4.67134	27.98	0.08	2.59	8.26	0.00	0.00	0.00	0.00	1.46	0.07	0.00	0.00	0.00	0.00	7.44
6.00	4.68047	27.98	0.08	2.59	8.25	0.00	0.00	0.00	0.00	1.46	0.07	0.00	0.00	0.00	0.00	7.44
5.90	4.68959	27.98	0.08	2.60	8.24	0.00	0.00	0.00	0.00	1.46	0.07	0.00	0.00	0.00	0.00	7.44
5.80	4.69872	27.98	0.08	2.60	8.23	0.00	0.00	0.00	0.00	1.46	0.07	0.00	0.00	0.00	0.00	7.44
5.70	4.70785	27.98	0.08	2.61	8.22	0.00	0.00	0.00	0.00	1.46	0.07	0.00	0.00	0.00	0.00	7.44
5.60	4.71698	27.98	0.08	2.61	8.22	0.00	0.00	0.00	0.00	1.47	0.07	0.00	0.00	0.00	0.00	7.44
5.50	4.72610	27.98	0.08	2.62	8.21	0.00	0.00	0.00	0.00	1.47	0.07	0.00	0.00	0.00	0.00	7.44

5.40	4.73523	27.98	0.08	2.62	8.20	0.00	0.00	0.00	0.00	1.47	0.07	0.00	0.00	0.00	0.00	7.44
5.30	4.74436	27.98	0.08	2.63	8.19	0.00	0.00	0.00	0.00	1.47	0.07	0.00	0.00	0.00	0.00	7.44
5.20	4.75349	27.98	0.08	2.63	8.19	0.00	0.00	0.00	0.00	1.47	0.07	0.00	0.00	0.00	0.00	7.44
5.10	4.76261	27.98	0.08	2.64	8.18	0.00	0.00	0.00	0.00	1.47	0.07	0.00	0.00	0.00	0.00	7.44
5.00	4.77174	27.98	0.08	2.64	8.17	0.00	0.00	0.00	0.00	1.48	0.07	0.00	0.00	0.00	0.00	7.44
4.90	4.78087	27.98	0.08	2.65	8.16	0.00	0.00	0.00	0.00	1.48	0.07	0.00	0.00	0.00	0.00	7.44
4.80	4.79000	27.98	0.08	2.65	8.16	0.00	0.00	0.00	0.00	1.48	0.07	0.00	0.00	0.00	0.00	7.44
4.70	4.79000	28.00	0.08	2.67	8.15	0.00	0.00	0.00	0.00	0.93	0.07	0.00	0.00	0.00	0.00	2.48
4.60	4.79000	28.02	0.08	2.70	8.14	0.00	0.00	0.00	0.00	0.93	0.07	0.00	0.00	0.00	0.00	2.49
4.50	4.79000	28.03	0.08	2.72	8.13	0.00	0.00	0.00	0.00	0.93	0.07	0.00	0.00	0.00	0.00	2.49
4.40	4.79000	28.05	0.08	2.74	8.12	0.00	0.00	0.00	0.00	0.93	0.07	0.00	0.00	0.00	0.00	2.49
4.30	4.79000	28.07	0.08	2.76	8.11	0.00	0.00	0.00	0.00	0.93	0.07	0.00	0.00	0.00	0.00	2.49
4.20	4.79000	28.09	0.08	2.79	8.10	0.00	0.00	0.00	0.00	0.93	0.07	0.00	0.00	0.00	0.00	2.50
4.10	4.79000	28.11	0.08	2.81	8.09	0.00	0.00	0.00	0.00	0.93	0.07	0.00	0.00	0.00	0.00	2.50
4.00	4.79000	28.12	0.08	2.83	8.08	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.50
3.90	4.79000	28.14	0.08	2.85	8.07	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.50
3.80	4.79000	28.16	0.08	2.87	8.06	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.51
3.70	4.79000	28.18	0.08	2.89	8.05	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.51
3.60	4.79000	28.20	0.09	2.91	8.04	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.51
3.50	4.79000	28.22	0.09	2.93	8.03	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.52
3.40	4.79000	28.23	0.09	2.94	8.02	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.52
3.30	4.79000	28.25	0.09	2.96	8.01	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.52
3.20	4.79000	28.27	0.09	2.98	8.00	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.53
3.10	4.79000	28.29	0.09	3.00	7.99	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.53
3.00	4.79000	28.31	0.09	3.02	7.98	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.53
2.90	4.79000	28.32	0.09	3.03	7.97	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.53
2.80	4.79000	28.34	0.09	3.05	7.96	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.54
2.70	4.79000	28.36	0.09	3.07	7.95	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.54
2.60	4.79000	28.38	0.09	3.08	7.94	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.54
2.50	4.79000	28.40	0.09	3.10	7.93	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.55
2.40	4.79000	28.42	0.09	3.11	7.92	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.55
2.30	4.79000	28.43	0.09	3.13	7.91	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.55
2.20	4.79000	28.45	0.09	3.14	7.90	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.55
2.10	4.79000	28.47	0.09	3.16	7.89	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.56
2.00	4.79000	28.49	0.09	3.17	7.88	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.56
1.90	4.79000	28.51	0.09	3.19	7.87	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.56
1.80	4.79000	28.52	0.09	3.20	7.86	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.57
1.70	4.79000	28.54	0.09	3.21	7.85	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.57
1.60	4.79000	28.56	0.09	3.23	7.84	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.57
1.50	4.79000	28.58	0.09	3.24	7.83	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.57
1.40	4.79000	28.60	0.09	3.25	7.82	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.58
1.30	4.79000	28.61	0.09	3.26	7.81	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.58
1.20	4.79000	28.63	0.09	3.28	7.80	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.58
1.10	4.79000	28.65	0.10	3.29	7.79	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.59
1.00	4.79000	28.67	0.10	3.30	7.78	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.59
0.90	4.79000	28.69	0.10	3.31	7.77	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.59
0.80	4.79000	28.70	0.10	3.32	7.76	0.00	0.00	0.00	0.00	0.94	0.07	0.00	0.00	0.00	0.00	2.60
0.70	4.79000	28.72	0.10	3.33	7.75	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	2.60
0.60	4.79000	28.74	0.10	3.34	7.74	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	2.60
0.50	4.79000	28.76	0.10	3.35	7.73	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	2.60
0.40	4.79000	28.78	0.10	3.36	7.72	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	2.61
0.30	4.79000	28.80	0.10	3.37	7.71	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	2.61
0.20	4.79000	28.81	0.10	3.38	7.70	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	2.61
0.10	4.79000	28.83	0.10	3.39	7.69	0.00	0.00	0.00	0.00	0.95	0.08	0.00	0.00	0.00	0.00	2.62
0.00	4.79000	28.85	0.10	3.40	7.68	0.00	0.00	0.00	0.00	0.95	0.08	0.00	0.00	0.00	0.00	2.62

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
1	HDWTR	0.02800	0.00	0.00	17.50	288.40	6.89	5.99	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96

********** 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	20.80	20.70	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
2	20.70	20.60	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
3	20.60	20.50	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
4	20.50	20.40	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
5	20.40	20.30	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
6	20.30	20.20	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
7	20.20	20.10	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
8	20.10	20.00	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
9	20.00	19.90	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
10	19.90	19.80	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
11	19.80	19.70	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
12	19.70	19.60	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
13	19.60	19.50	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
14	19.50	19.40	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
15	19.40	19.30	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
16	19.30	19.20	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
17	19.20	19.10	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
18	19.10	19.00	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
19	19.00	18.90	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
20	18.90	18.80	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
21	18.80	18.70	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
22	18.70	18.60	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
23	18.60	18.50	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
24	18.50	18.40	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
25	18.40	18.30	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
26	18.30	18.20	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
27	18.20	18.10	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
28	18.10	18.00	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
29	18.00	17.90	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
30	17.90	17.80	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
31	17.80	17.70	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
32	17.70	17.60	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
33	17.60	17.50	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
34	17.50	17.40	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
35	17.40	17.30	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
36	17.30	17.20	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
37	17.20	17.10	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002

TOT							17.90				43304.79	77330.00											
AVG						0.00239			0.56	20.90									11.70				
CUM							17.90																

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	20.700	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
2	20.600	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
3	20.500	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
4	20.400	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
5	20.300	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
6	20.200	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
7	20.100	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
8	20.000	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
9	19.900	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
10	19.800	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
11	19.700	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
12	19.600	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
13	19.500	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
14	19.400	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
15	19.300	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
16	19.200	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
17	19.100	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
18	19.000	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
19	18.900	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
20	18.800	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
21	18.700	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
22	18.600	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
23	18.500	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
24	18.400	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
25	18.300	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
26	18.200	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
27	18.100	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
28	18.000	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
29	17.900	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
30	17.800	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
31	17.700	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
32	17.600	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
33	17.500	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
34	17.400	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
35	17.300	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
36	17.200	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
37	17.100	7.78	1.46	0.10	0.00	0.00	0.00	0.00	0.00	2.95	2.95	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			1.25	0.07	0.00	0.00	0.00	0.00	0.00	1.75			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
1	20.700	28.30	0.11	17.50	288.40	5.53	6.15	0.00	6.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.05
2	20.600	28.30	0.11	17.50	288.40	4.72	6.31	0.00	6.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.13
3	20.500	28.30	0.11	17.50	288.40	4.24	6.46	0.00	6.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
4	20.400	28.30	0.11	17.50	288.40	3.95	6.60	0.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
5	20.300	28.30	0.11	17.50	288.40	3.78	6.74	0.00	6.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.34
6	20.200	28.30	0.11	17.50	288.40	3.67	6.87	0.00	6.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.40
7	20.100	28.30	0.11	17.50	288.40	3.59	6.99	0.00	6.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.46
8	20.000	28.30	0.11	17.50	288.40	3.55	7.11	0.00	7.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.51
9	19.900	28.30	0.11	17.50	288.40	3.51	7.22	0.00	7.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.56
10	19.800	28.30	0.11	17.50	288.40	3.49	7.32	0.00	7.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.60
11	19.700	28.30	0.11	17.50	288.40	3.47	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.64
12	19.600	28.30	0.11	17.50	288.40	3.45	7.52	0.00	7.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.68
13	19.500	28.30	0.11	17.50	288.40	3.44	7.61	0.00	7.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
14	19.400	28.30	0.11	17.50	288.40	3.43	7.70	0.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
15	19.300	28.30	0.11	17.50	288.40	3.42	7.78	0.00	7.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.77
16	19.200	28.30	0.11	17.50	288.40	3.41	7.86	0.00	7.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
17	19.100	28.30	0.11	17.50	288.40	3.40	7.94	0.00	7.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.82
18	19.000	28.30	0.11	17.50	288.40	3.39	8.01	0.00	8.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.84
19	18.900	28.30	0.11	17.50	288.40	3.38	8.08	0.00	8.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.86
20	18.800	28.30	0.11	17.50	288.40	3.37	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.88
21	18.700	28.30	0.11	17.50	288.40	3.36	8.21	0.00	8.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.90
22	18.600	28.30	0.11	17.50	288.40	3.36	8.27	0.00	8.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.92
23	18.500	28.30	0.11	17.50	288.40	3.35	8.32	0.00	8.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.93
24	18.400	28.30	0.11	17.50	288.40	3.35	8.38	0.00	8.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.94
25	18.300	28.30	0.10	17.50	288.40	3.34	8.43	0.00	8.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.96
26	18.200	28.30	0.10	17.50	288.40	3.33	8.48	0.00	8.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.97
27	18.100	28.30	0.10	17.50	288.40	3.33	8.52	0.00	8.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.98
28	18.000	28.30	0.10	17.50	288.40	3.33	8.57	0.00	8.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.99
29	17.900	28.30	0.10	17.50	288.40	3.32	8.61	0.00	8.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.00
30	17.800	28.30	0.10	17.50	288.40	3.32	8.65	0.00	8.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.01
31	17.700	28.30	0.10	17.50	288.40	3.31	8.69	0.00	8.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.02
32	17.600	28.30	0.10	17.50	288.40	3.31	8.73	0.00	8.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.02
33	17.500	28.30	0.10	17.50	288.40	3.31	8.76	0.00	8.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.03
34	17.400	28.30	0.10	17.50	288.40	3.30	8.79	0.00	8.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04
35	17.300	28.30	0.10	17.50	288.40	3.30	8.83	0.00	8.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04
36	17.200	28.30	0.10	17.50	288.40	3.30	8.86	0.00	8.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.05
37	17.100	28.30	0.10	17.50	288.40	3.30	8.88	0.00	8.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.05

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 2 Theriot Canal Calibration Simulation for Beouf System Model

********** 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
38	UPR RCH	0.02800	28.30	0.10	17.50	288.40	3.30	8.88	0.00	8.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.05

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
38	17.10	17.00	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
39	17.00	16.90	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
40	16.90	16.80	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
41	16.80	16.70	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
42	16.70	16.60	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
43	16.60	16.50	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
44	16.50	16.40	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
45	16.40	16.30	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
46	16.30	16.20	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
47	16.20	16.10	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
48	16.10	16.00	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
49	16.00	15.90	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
50	15.90	15.80	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
51	15.80	15.70	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
52	15.70	15.60	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
TOT						5.82			14070.00	21000.00					
AVG					0.00299		0.67	14.00			9.38				
CUM						23.72									

********** 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
38	17.000	7.79	1.23	0.10	0.00	0.00	0.00	0.00	0.00	1.68	1.68	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
39	16.900	7.81	1.23	0.10	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
40	16.800	7.82	1.23	0.10	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
41	16.700	7.83	1.22	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	0.00	0.00	0.00	0.17	0.00
42	16.600	7.85	1.22	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	0.00	0.00	0.00	0.17	0.00
43	16.500	7.86	1.22	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	0.00	0.00	0.00	0.17	0.00
44	16.400	7.87	1.22	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	0.00	0.00	0.00	0.17	0.00
45	16.300	7.89	1.22	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	0.00	0.00	0.00	0.17	0.00
46	16.200	7.90	1.21	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	0.00	0.00	0.00	0.17	0.00
47	16.100	7.91	1.21	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	0.00	0.00	0.00	0.16	0.00
48	16.000	7.92	1.21	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	0.00	0.00	0.00	0.16	0.00
49	15.900	7.94	1.21	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	0.16	0.00
50	15.800	7.95	1.21	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	0.00	0.00	0.00	0.16	0.00
51	15.700	7.96	1.20	0.10	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
52	15.600	7.98	1.20	0.10	0.00	0.00	0.00	0.00	0.00	1.54	1.54	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
AVG 20 DEG C RATE			1.05	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	0.10	0.00

* g/m²/d ** mg/L/day

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

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

NO.	DIST	DEG C	PPT	mg/L	umhos	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL	mg/L
38	17.000	28.21	0.10	17.50	288.40	3.76	9.02	0.00	9.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.08
39	16.900	28.11	0.10	17.50	288.40	4.07	9.16	0.00	9.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
40	16.800	28.02	0.10	17.50	288.40	4.29	9.29	0.00	9.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.12
41	16.700	27.93	0.10	17.50	288.40	4.44	9.42	0.00	9.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.15
42	16.600	27.83	0.10	17.50	288.40	4.54	9.54	0.00	9.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.17
43	16.500	27.74	0.10	17.50	288.40	4.62	9.67	0.00	9.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.19
44	16.400	27.65	0.10	17.50	288.40	4.67	9.78	0.00	9.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.21
45	16.300	27.55	0.10	17.50	288.40	4.71	9.90	0.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.23
46	16.200	27.46	0.10	17.50	288.40	4.74	10.01	0.00	10.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.25
47	16.100	27.37	0.10	17.50	288.40	4.77	10.12	0.00	10.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.27
48	16.000	27.27	0.10	17.50	288.40	4.79	10.23	0.00	10.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.29
49	15.900	27.18	0.10	17.50	288.40	4.81	10.34	0.00	10.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.31
50	15.800	27.09	0.10	17.50	288.40	4.83	10.44	0.00	10.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.33
51	15.700	26.99	0.10	17.50	288.40	4.85	10.54	0.00	10.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.35
52	15.600	26.90	0.10	17.50	288.40	4.86	10.64	0.00	10.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.37

********** 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
53	UPR RCH	0.02800	26.90	0.10	17.50	288.40	4.86	10.64	0.00	10.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.37

********** 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
53	15.60	15.50	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
54	15.50	15.40	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
55	15.40	15.30	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
56	15.30	15.20	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
57	15.20	15.10	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
58	15.10	15.00	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
59	15.00	14.90	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
60	14.90	14.80	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
61	14.80	14.70	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
62	14.70	14.60	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
63	14.60	14.50	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
64	14.50	14.40	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
65	14.40	14.30	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
66	14.30	14.20	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
67	14.20	14.10	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
68	14.10	14.00	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
69	14.00	13.90	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
70	13.90	13.80	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
71	13.80	13.70	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
72	13.70	13.60	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
73	13.60	13.50	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
74	13.50	13.40	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
75	13.40	13.30	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
76	13.30	13.20	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
77	13.20	13.10	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
78	13.10	13.00	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
79	13.00	12.90	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
80	12.90	12.80	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
81	12.80	12.70	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
82	12.70	12.60	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
83	12.60	12.50	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
84	12.50	12.40	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
85	12.40	12.30	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
86	12.30	12.20	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
87	12.20	12.10	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
88	12.10	12.00	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
89	12.00	11.90	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
90	11.90	11.80	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000

TOT							3349.75					8103728.00	6642400.00										
AVG						0.00001			1.22	1748.00					2132.56								
CUM							3373.47																

********** 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
53	15.500	7.97	0.62	0.10	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
54	15.400	7.97	0.62	0.10	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
55	15.300	7.96	0.62	0.10	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
56	15.200	7.96	0.62	0.10	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
57	15.100	7.95	0.62	0.10	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
58	15.000	7.95	0.62	0.10	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
59	14.900	7.94	0.62	0.10	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
60	14.800	7.94	0.62	0.10	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
61	14.700	7.93	0.62	0.10	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
62	14.600	7.92	0.62	0.10	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
63	14.500	7.92	0.62	0.10	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
64	14.400	7.91	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
65	14.300	7.91	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
66	14.200	7.90	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
67	14.100	7.90	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
68	14.000	7.89	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
69	13.900	7.89	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
70	13.800	7.88	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
71	13.700	7.88	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
72	13.600	7.87	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
73	13.500	7.87	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
74	13.400	7.86	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
75	13.300	7.86	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
76	13.200	7.85	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
77	13.100	7.85	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
78	13.000	7.84	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
79	12.900	7.84	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
80	12.800	7.83	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
81	12.700	7.83	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
82	12.600	7.82	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
83	12.500	7.82	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
84	12.400	7.81	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
85	12.300	7.81	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
86	12.200	7.80	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
87	12.100	7.79	0.63	0.10	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
88	12.000	7.79	0.64	0.10	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
89	11.900	7.78	0.64	0.10	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
90	11.800	7.78	0.64	0.10	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.54	0.07	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
53	15.500	26.94	0.10	17.50	288.40	5.18	11.33	0.00	11.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.43
54	15.400	26.97	0.10	17.50	288.40	5.16	11.38	0.00	11.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.43
55	15.300	27.01	0.10	17.50	288.40	5.16	11.37	0.00	11.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.42
56	15.200	27.05	0.10	17.50	288.40	5.15	11.35	0.00	11.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.41
57	15.100	27.09	0.10	17.50	288.40	5.15	11.33	0.00	11.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.41
58	15.000	27.12	0.10	17.50	288.40	5.14	11.31	0.00	11.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.40
59	14.900	27.16	0.10	17.50	288.40	5.14	11.30	0.00	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.40
60	14.800	27.20	0.10	17.50	288.40	5.14	11.28	0.00	11.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.39
61	14.700	27.24	0.10	17.50	288.40	5.13	11.26	0.00	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.38
62	14.600	27.27	0.10	17.50	288.40	5.13	11.24	0.00	11.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.38
63	14.500	27.31	0.10	17.50	288.40	5.12	11.22	0.00	11.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.37
64	14.400	27.35	0.10	17.50	288.40	5.12	11.20	0.00	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.36
65	14.300	27.39	0.10	17.50	288.40	5.11	11.18	0.00	11.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.36
66	14.200	27.42	0.10	17.50	288.40	5.11	11.16	0.00	11.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.35
67	14.100	27.46	0.10	17.50	288.40	5.11	11.14	0.00	11.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.35
68	14.000	27.50	0.10	17.50	288.40	5.10	11.12	0.00	11.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.34
69	13.900	27.54	0.10	17.50	288.40	5.10	11.10	0.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.34
70	13.800	27.57	0.10	17.50	288.40	5.09	11.08	0.00	11.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.33
71	13.700	27.61	0.09	17.50	288.40	5.09	11.06	0.00	11.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.32
72	13.600	27.65	0.09	17.50	288.40	5.08	11.04	0.00	11.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.32
73	13.500	27.68	0.09	17.50	288.40	5.08	11.03	0.00	11.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.31
74	13.400	27.72	0.09	17.50	288.40	5.07	11.01	0.00	11.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.31
75	13.300	27.76	0.09	17.50	288.40	5.07	10.99	0.00	10.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.30
76	13.200	27.80	0.09	17.50	288.40	5.07	10.97	0.00	10.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.29
77	13.100	27.83	0.09	17.50	288.40	5.06	10.95	0.00	10.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.29
78	13.000	27.87	0.09	17.50	288.40	5.06	10.93	0.00	10.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.28
79	12.900	27.91	0.09	17.50	288.40	5.05	10.91	0.00	10.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.28
80	12.800	27.95	0.09	17.50	288.40	5.05	10.89	0.00	10.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.27
81	12.700	27.98	0.09	17.50	288.40	5.04	10.88	0.00	10.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.27
82	12.600	28.02	0.09	17.50	288.40	5.04	10.86	0.00	10.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.26
83	12.500	28.06	0.09	17.50	288.40	5.04	10.84	0.00	10.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.25
84	12.400	28.10	0.09	17.50	288.40	5.03	10.82	0.00	10.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.25
85	12.300	28.13	0.09	17.50	288.40	5.03	10.80	0.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.24
86	12.200	28.17	0.09	17.50	288.40	5.02	10.78	0.00	10.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.24
87	12.100	28.21	0.09	17.50	288.40	5.02	10.76	0.00	10.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.23
88	12.000	28.25	0.09	17.50	288.40	5.01	10.75	0.00	10.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.23
89	11.900	28.28	0.09	17.50	288.40	5.01	10.73	0.00	10.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.22
90	11.800	28.32	0.09	17.50	288.40	5.01	10.71	0.00	10.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.21

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
91	UPR RCH	0.02800	28.32	0.09	17.50	288.40	5.01	10.71	0.00	10.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.21
104	WSTLD	1.26500	0.00	0.00	36.60	199.20	2.30	9.97	0.00	9.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
91	11.80	11.70	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
92	11.70	11.60	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
93	11.60	11.50	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
94	11.50	11.40	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
95	11.40	11.30	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
96	11.30	11.20	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
97	11.20	11.10	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
98	11.10	11.00	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
99	11.00	10.90	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
100	10.90	10.80	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
101	10.80	10.70	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
102	10.70	10.60	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
103	10.60	10.50	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
104	10.50	10.40	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
105	10.40	10.30	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
106	10.30	10.20	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
107	10.20	10.10	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
108	10.10	10.00	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
109	10.00	9.90	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
110	9.90	9.80	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
111	9.80	9.70	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
112	9.70	9.60	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
113	9.60	9.50	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
114	9.50	9.40	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
115	9.40	9.30	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
116	9.30	9.20	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
117	9.20	9.10	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
118	9.10	9.00	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
119	9.00	8.90	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
120	8.90	8.80	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
121	8.80	8.70	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
122	8.70	8.60	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
123	8.60	8.50	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
124	8.50	8.40	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
125	8.40	8.30	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
126	8.30	8.20	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
127	8.20	8.10	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020

128	8.10	8.00	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
129	8.00	7.90	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
130	7.90	7.80	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
131	7.80	7.70	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
132	7.70	7.60	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
133	7.60	7.50	1.29300	97.8	0.02039	0.06	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.020
TOT						35.77			272625.38	205755.00					
AVG					0.00139		1.33	47.85			63.40				
CUM						3409.24									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
91	11.700	7.78	0.59	0.10	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	0.00	0.00	0.00	0.18	0.00
92	11.600	7.78	0.59	0.10	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	0.00	0.00	0.00	0.18	0.00
93	11.500	7.78	0.59	0.10	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	0.00	0.00	0.00	0.18	0.00
94	11.400	7.77	0.59	0.10	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
95	11.300	7.77	0.59	0.10	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
96	11.200	7.77	0.59	0.10	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
97	11.100	7.77	0.59	0.10	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
98	11.000	7.77	0.59	0.10	0.00	0.00	0.00	0.00	0.00	2.71	2.71	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
99	10.900	7.77	0.59	0.10	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
100	10.800	7.77	0.59	0.10	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
101	10.700	7.77	0.59	0.10	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
102	10.600	7.77	0.59	0.10	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
103	10.500	7.76	0.59	0.10	0.00	0.00	0.00	0.00	0.00	2.72	2.72	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
104	10.400	7.76	0.84	0.10	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	0.00	0.00	0.00	0.18	0.00
105	10.300	7.76	0.84	0.10	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	0.00	0.00	0.00	0.18	0.00
106	10.200	7.76	0.84	0.10	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	0.00	0.00	0.00	0.18	0.00
107	10.100	7.76	0.84	0.10	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	0.00	0.00	0.00	0.18	0.00
108	10.000	7.76	0.84	0.10	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	0.00	0.00	0.00	0.18	0.00
109	9.900	7.76	0.84	0.10	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	0.00	0.00	0.00	0.18	0.00
110	9.800	7.76	0.84	0.10	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	0.00	0.00	0.00	0.18	0.00
111	9.700	7.75	0.84	0.10	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	0.00	0.00	0.00	0.18	0.00
112	9.600	7.75	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
113	9.500	7.75	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
114	9.400	7.75	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
115	9.300	7.75	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
116	9.200	7.75	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
117	9.100	7.75	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
118	9.000	7.75	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
119	8.900	7.74	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
120	8.800	7.74	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
121	8.700	7.74	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
122	8.600	7.74	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
123	8.500	7.74	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
124	8.400	7.74	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
125	8.300	7.74	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
126	8.200	7.74	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
127	8.100	7.74	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
128	8.000	7.73	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00

129	7.900	7.73	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
130	7.800	7.73	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
131	7.700	7.73	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
132	7.600	7.73	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
133	7.500	7.73	0.85	0.10	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	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.66	0.07	0.00	0.00	0.00	0.00	0.00	1.60			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
91	11.700	28.33	0.09	17.50	288.40	3.08	10.90	0.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.01
92	11.600	28.34	0.09	17.50	288.40	2.33	11.05	0.00	11.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.87
93	11.500	28.35	0.09	17.50	288.40	2.04	11.17	0.00	11.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.77
94	11.400	28.35	0.09	17.50	288.40	1.97	11.29	0.00	11.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
95	11.300	28.36	0.09	17.50	288.40	1.96	11.41	0.00	11.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.68
96	11.200	28.37	0.09	17.50	288.40	1.96	11.50	0.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.65
97	11.100	28.38	0.09	17.50	288.40	1.95	11.58	0.00	11.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.64
98	11.000	28.39	0.09	17.50	288.40	1.95	11.64	0.00	11.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.62
99	10.900	28.40	0.09	17.50	288.40	1.95	11.69	0.00	11.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.62
100	10.800	28.41	0.09	17.50	288.40	1.95	11.74	0.00	11.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.61
101	10.700	28.41	0.10	17.50	288.40	1.94	11.77	0.00	11.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.61
102	10.600	28.42	0.10	17.50	288.40	1.94	11.80	0.00	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.61
103	10.500	28.43	0.10	17.50	288.40	1.94	11.83	0.00	11.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.61
104	10.400	28.44	0.10	36.19	201.13	2.36	10.02	0.00	10.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.76
105	10.300	28.45	0.10	36.19	201.13	2.42	10.03	0.00	10.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.76
106	10.200	28.46	0.10	36.19	201.13	2.48	10.04	0.00	10.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.76
107	10.100	28.47	0.10	36.19	201.13	2.54	10.05	0.00	10.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.76
108	10.000	28.47	0.10	36.19	201.13	2.59	10.05	0.00	10.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.76
109	9.900	28.48	0.10	36.19	201.13	2.64	10.06	0.00	10.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
110	9.800	28.49	0.10	36.19	201.13	2.69	10.07	0.00	10.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
111	9.700	28.50	0.10	36.19	201.13	2.74	10.08	0.00	10.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
112	9.600	28.51	0.10	36.19	201.13	2.78	10.09	0.00	10.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
113	9.500	28.52	0.10	36.19	201.13	2.83	10.10	0.00	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
114	9.400	28.53	0.10	36.19	201.13	2.87	10.11	0.00	10.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
115	9.300	28.54	0.10	36.19	201.13	2.90	10.11	0.00	10.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
116	9.200	28.54	0.10	36.19	201.13	2.94	10.12	0.00	10.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
117	9.100	28.55	0.10	36.19	201.13	2.97	10.13	0.00	10.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
118	9.000	28.56	0.10	36.19	201.13	3.01	10.14	0.00	10.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
119	8.900	28.57	0.10	36.19	201.13	3.04	10.15	0.00	10.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
120	8.800	28.58	0.10	36.19	201.13	3.07	10.15	0.00	10.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
121	8.700	28.59	0.10	36.19	201.13	3.10	10.16	0.00	10.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
122	8.600	28.60	0.10	36.19	201.13	3.12	10.17	0.00	10.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
123	8.500	28.60	0.11	36.19	201.13	3.15	10.18	0.00	10.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
124	8.400	28.61	0.11	36.19	201.13	3.17	10.18	0.00	10.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
125	8.300	28.62	0.11	36.19	201.13	3.19	10.19	0.00	10.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
126	8.200	28.63	0.11	36.19	201.13	3.22	10.20	0.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
127	8.100	28.64	0.11	36.19	201.13	3.24	10.21	0.00	10.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
128	8.000	28.65	0.11	36.19	201.13	3.26	10.21	0.00	10.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
129	7.900	28.66	0.11	36.19	201.13	3.27	10.22	0.00	10.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
130	7.800	28.66	0.11	36.19	201.13	3.29	10.23	0.00	10.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71

131	7.700	28.67	0.11	36.19	201.13	3.31	10.24	0.00	10.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
132	7.600	28.68	0.11	36.19	201.13	3.32	10.24	0.00	10.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
133	7.500	28.69	0.11	36.19	201.13	3.34	10.25	0.00	10.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 8 Bayou Boeuf Calibration Simulation for Beouf System Model

********** 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
289	UPR RCH	1.29300	28.69	0.11	36.19	201.13	3.34	10.25	0.00	10.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.71
289	TRIB	2.56860	28.69	0.11	25.13	209.73	3.33	13.35	0.00	13.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27

********** 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
289	7.50	7.40	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
290	7.40	7.30	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
291	7.30	7.20	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
292	7.20	7.10	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
293	7.10	7.00	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
294	7.00	6.90	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
295	6.90	6.80	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
296	6.80	6.70	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
297	6.70	6.60	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
298	6.60	6.50	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
299	6.50	6.40	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
300	6.40	6.30	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
301	6.30	6.20	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
302	6.20	6.10	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
303	6.10	6.00	3.86160	86.6	0.05442	0.02	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.054
TOT						0.32			106447.51	62250.00					
AVG					0.05442		1.71	41.50			70.97				
CUM						3409.56									

********** 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
289	7.400	7.73	0.99	0.10	0.00	0.00	0.00	0.00	0.00	3.46	3.46	3.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
290	7.300	7.73	0.99	0.10	0.00	0.00	0.00	0.00	0.00	3.46	3.46	3.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
291	7.200	7.72	0.99	0.10	0.00	0.00	0.00	0.00	0.00	3.46	3.46	3.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
292	7.100	7.72	0.99	0.10	0.00	0.00	0.00	0.00	0.00	3.47	3.47	3.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
293	7.000	7.72	0.99	0.10	0.00	0.00	0.00	0.00	0.00	3.47	3.47	3.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00

294	6.900	7.72	0.99	0.10	0.00	0.00	0.00	0.00	0.00	3.47	3.47	3.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
295	6.800	7.72	0.99	0.10	0.00	0.00	0.00	0.00	0.00	3.47	3.47	3.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
296	6.700	7.72	0.99	0.10	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
297	6.600	7.72	0.99	0.10	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
298	6.500	7.71	0.99	0.10	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
299	6.400	7.71	0.99	0.10	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
300	6.300	7.71	0.99	0.10	0.00	0.00	0.00	0.00	0.00	3.48	3.48	3.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
301	6.200	7.71	0.99	0.11	0.00	0.00	0.00	0.00	0.00	3.49	3.49	3.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
302	6.100	7.71	0.99	0.11	0.00	0.00	0.00	0.00	0.00	3.49	3.49	3.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
303	6.000	7.71	0.99	0.11	0.00	0.00	0.00	0.00	0.00	3.49	3.49	3.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.84	0.07	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	0.10	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
289	7.400	28.70	0.11	28.83	206.85	3.35	12.34	0.00	12.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.11
290	7.300	28.71	0.11	28.83	206.85	3.36	12.37	0.00	12.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.14
291	7.200	28.72	0.11	28.83	206.85	3.37	12.41	0.00	12.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.17
292	7.100	28.73	0.11	28.83	206.85	3.39	12.44	0.00	12.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.21
293	7.000	28.74	0.11	28.83	206.85	3.40	12.47	0.00	12.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.24
294	6.900	28.75	0.11	28.83	206.85	3.41	12.50	0.00	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.27
295	6.800	28.76	0.11	28.83	206.85	3.42	12.53	0.00	12.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.30
296	6.700	28.78	0.10	28.83	206.85	3.43	12.57	0.00	12.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.33
297	6.600	28.79	0.10	28.83	206.85	3.44	12.60	0.00	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.36
298	6.500	28.80	0.10	28.83	206.85	3.45	12.63	0.00	12.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.39
299	6.400	28.81	0.10	28.83	206.85	3.46	12.66	0.00	12.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.42
300	6.300	28.82	0.10	28.83	206.85	3.47	12.69	0.00	12.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.45
301	6.200	28.83	0.10	28.83	206.85	3.47	12.73	0.00	12.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.48
302	6.100	28.84	0.10	28.83	206.85	3.48	12.76	0.00	12.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.51
303	6.000	28.85	0.10	28.83	206.85	3.49	12.79	0.00	12.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.54

********** 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
524	UPR RCH	3.86160	28.85	0.10	28.83	206.85	3.49	12.79	0.00	12.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.54
524	TRIB	4.79000	28.85	0.10	17.09	178.35	3.40	7.68	0.00	7.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.54

********** 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
524	6.00	5.90	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
525	5.90	5.80	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
526	5.80	5.70	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
527	5.70	5.60	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
528	5.60	5.50	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
529	5.50	5.40	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
530	5.40	5.30	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
531	5.30	5.20	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
532	5.20	5.10	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
533	5.10	5.00	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
534	5.00	4.90	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
535	4.90	4.80	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
536	4.80	4.70	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
537	4.70	4.60	8.65160	50.7	0.06775	0.02	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.068
TOT						0.24			178787.67	96642.00					
AVG					0.06775		1.85	69.03			127.71				
CUM						3409.80									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
524	5.900	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
525	5.800	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
526	5.700	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
527	5.600	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
528	5.500	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
529	5.400	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
530	5.300	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
531	5.200	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
532	5.100	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
533	5.000	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
534	4.900	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00

535	4.800	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
536	4.700	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
537	4.600	7.71	1.04	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.88	0.07	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	0.10	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
524	5.900	28.85	0.10	22.33	191.07	3.43	9.98	0.00	9.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.54
525	5.800	28.85	0.10	22.33	191.07	3.43	9.99	0.00	9.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.54
526	5.700	28.85	0.10	22.33	191.07	3.42	10.01	0.00	10.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.54
527	5.600	28.85	0.10	22.33	191.07	3.42	10.02	0.00	10.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.53
528	5.500	28.85	0.10	22.33	191.07	3.41	10.04	0.00	10.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.53
529	5.400	28.85	0.10	22.33	191.07	3.40	10.05	0.00	10.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.53
530	5.300	28.85	0.10	22.33	191.07	3.40	10.07	0.00	10.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.53
531	5.200	28.85	0.10	22.33	191.07	3.39	10.08	0.00	10.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.53
532	5.100	28.85	0.10	22.33	191.07	3.39	10.10	0.00	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.53
533	5.000	28.85	0.10	22.33	191.07	3.38	10.11	0.00	10.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.53
534	4.900	28.85	0.10	22.33	191.07	3.38	10.13	0.00	10.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.53
535	4.800	28.85	0.10	22.33	191.07	3.37	10.14	0.00	10.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.53
536	4.700	28.85	0.10	22.33	191.07	3.37	10.16	0.00	10.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
537	4.600	28.85	0.10	22.33	191.07	3.36	10.18	0.00	10.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 19 Bayou Beouf Calibration Simulation for Beouf System Model

********** 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
538	UPR RCH	8.65160	28.85	0.10	22.33	191.07	3.36	10.18	0.00	10.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.52
566	WSTLD	0.00011	0.00	0.00	0.00	0.00	2.00	103.50	0.00	103.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.50
567	WSTLD	0.00022	0.00	0.00	0.00	0.00	2.00	103.50	0.00	103.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.50

********** 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
538	4.60	4.50	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
539	4.50	4.40	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
540	4.40	4.30	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
541	4.30	4.20	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
542	4.20	4.10	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
543	4.10	4.00	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
544	4.00	3.90	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
545	3.90	3.80	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
546	3.80	3.70	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
547	3.70	3.60	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
548	3.60	3.50	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
549	3.50	3.40	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
550	3.40	3.30	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
551	3.30	3.20	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
552	3.20	3.10	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
553	3.10	3.00	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
554	3.00	2.90	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
555	2.90	2.80	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
556	2.80	2.70	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
557	2.70	2.60	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
558	2.60	2.50	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
559	2.50	2.40	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
560	2.40	2.30	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
561	2.30	2.20	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
562	2.20	2.10	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
563	2.10	2.00	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
564	2.00	1.90	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
565	1.90	1.80	8.65160	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
566	1.80	1.70	8.65171	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
567	1.70	1.60	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
568	1.60	1.50	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
569	1.50	1.40	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
570	1.40	1.30	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
571	1.30	1.20	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
572	1.20	1.10	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
573	1.10	1.00	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
574	1.00	0.90	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
575	0.90	0.80	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
576	0.80	0.70	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
577	0.70	0.60	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
578	0.60	0.50	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
579	0.50	0.40	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
580	0.40	0.30	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
581	0.30	0.20	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
582	0.20	0.10	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
583	0.10	0.00	8.65193	50.7	0.06854	0.02	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.069
TOT						0.78			580649.06	288880.00					
AVG					0.06854		2.01	62.80			126.23				
CUM						3410.57									

********** 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
538	4.500	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
539	4.400	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
540	4.300	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
541	4.200	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
542	4.100	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
543	4.000	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
544	3.900	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
545	3.800	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
546	3.700	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
547	3.600	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
548	3.500	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
549	3.400	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
550	3.300	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
551	3.200	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
552	3.100	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
553	3.000	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
554	2.900	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
555	2.800	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
556	2.700	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
557	2.600	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
558	2.500	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
559	2.400	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
560	2.300	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
561	2.200	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
562	2.100	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
563	2.000	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
564	1.900	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
565	1.800	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
566	1.700	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
567	1.600	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
568	1.500	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
569	1.400	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
570	1.300	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
571	1.200	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
572	1.100	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
573	1.000	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
574	0.900	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
575	0.800	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
576	0.700	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
577	0.600	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
578	0.500	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
579	0.400	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
580	0.300	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
581	0.200	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
582	0.100	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
583	0.000	7.71	0.96	0.11	0.00	0.00	0.00	0.00	0.00	6.11	6.11	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.82	0.07	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	0.10	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
538	4.500	28.85	0.10	22.33	191.07	3.35	10.18	0.00	10.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
539	4.400	28.85	0.10	22.33	191.07	3.35	10.18	0.00	10.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
540	4.300	28.85	0.10	22.33	191.07	3.34	10.18	0.00	10.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
541	4.200	28.85	0.10	22.33	191.07	3.34	10.18	0.00	10.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
542	4.100	28.85	0.10	22.33	191.07	3.33	10.19	0.00	10.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
543	4.000	28.85	0.10	22.33	191.07	3.32	10.19	0.00	10.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
544	3.900	28.85	0.10	22.33	191.07	3.32	10.19	0.00	10.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
545	3.800	28.85	0.10	22.33	191.07	3.31	10.19	0.00	10.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
546	3.700	28.85	0.10	22.33	191.07	3.31	10.20	0.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
547	3.600	28.85	0.10	22.33	191.07	3.30	10.20	0.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
548	3.500	28.85	0.10	22.33	191.07	3.30	10.20	0.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
549	3.400	28.85	0.10	22.33	191.07	3.29	10.20	0.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
550	3.300	28.85	0.10	22.33	191.07	3.29	10.20	0.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
551	3.200	28.85	0.10	22.33	191.07	3.28	10.21	0.00	10.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
552	3.100	28.85	0.10	22.33	191.07	3.28	10.21	0.00	10.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
553	3.000	28.85	0.10	22.33	191.07	3.27	10.21	0.00	10.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
554	2.900	28.85	0.10	22.33	191.07	3.27	10.21	0.00	10.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
555	2.800	28.85	0.10	22.33	191.07	3.26	10.22	0.00	10.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
556	2.700	28.85	0.10	22.33	191.07	3.26	10.22	0.00	10.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
557	2.600	28.85	0.10	22.33	191.07	3.25	10.22	0.00	10.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
558	2.500	28.85	0.10	22.33	191.07	3.25	10.22	0.00	10.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
559	2.400	28.85	0.10	22.33	191.07	3.24	10.22	0.00	10.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
560	2.300	28.85	0.10	22.33	191.07	3.24	10.23	0.00	10.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
561	2.200	28.85	0.10	22.33	191.07	3.23	10.23	0.00	10.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
562	2.100	28.85	0.10	22.33	191.07	3.23	10.23	0.00	10.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
563	2.000	28.85	0.10	22.33	191.07	3.22	10.23	0.00	10.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
564	1.900	28.85	0.10	22.33	191.07	3.22	10.24	0.00	10.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
565	1.800	28.85	0.10	22.33	191.07	3.22	10.24	0.00	10.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
566	1.700	28.85	0.10	22.33	191.07	3.21	10.24	0.00	10.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
567	1.600	28.85	0.10	22.33	191.07	3.21	10.25	0.00	10.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
568	1.500	28.85	0.10	22.33	191.07	3.20	10.25	0.00	10.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
569	1.400	28.85	0.10	22.33	191.07	3.20	10.25	0.00	10.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
570	1.300	28.85	0.10	22.33	191.07	3.20	10.25	0.00	10.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
571	1.200	28.85	0.10	22.33	191.07	3.19	10.25	0.00	10.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
572	1.100	28.85	0.10	22.33	191.07	3.19	10.26	0.00	10.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
573	1.000	28.85	0.10	22.33	191.07	3.18	10.26	0.00	10.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
574	0.900	28.85	0.10	22.33	191.07	3.18	10.26	0.00	10.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
575	0.800	28.85	0.10	22.33	191.07	3.18	10.26	0.00	10.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
576	0.700	28.85	0.10	22.33	191.07	3.17	10.27	0.00	10.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
577	0.600	28.85	0.10	22.33	191.07	3.17	10.27	0.00	10.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
578	0.500	28.85	0.10	22.33	191.07	3.17	10.27	0.00	10.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
579	0.400	28.85	0.10	22.33	191.07	3.16	10.27	0.00	10.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
580	0.300	28.85	0.10	22.33	191.07	3.16	10.27	0.00	10.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
581	0.200	28.85	0.10	22.33	191.07	3.16	10.28	0.00	10.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
582	0.100	28.85	0.10	22.33	191.07	3.15	10.28	0.00	10.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
583	0.000	28.85	0.10	22.33	191.07	3.15	10.28	0.00	10.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52

STREAM SUMMARY
Theriot Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Calibration Simulation for Beouf System Model

TRAVEL TIME	=	3410.57	DAYS		
MAXIMUM EFFLUENT	=	97.83	PERCENT		
FLOW	=	0.02800	TO	8.65193	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00001	TO	0.06854	m/s
DEPTH	=	0.56	TO	2.01	m
WIDTH	=	14.00	TO	******	m
BOD DECAY	=	0.10	TO	0.11	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.31	TO	6.11	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.59	TO	1.46	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	=	26.90	TO	28.85	deg C
DISSOLVED OXYGEN	=	1.94	TO	5.53	mg/L

FINAL REPORT Halpin Canal
REACH NO. 5 Halpin Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Calibration Simulation for Beouf System Model

********** 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
134	HDWTR	0.00000	0.00	0.00	29.10	245.20	3.40	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17
EACH	INCR	0.00504	0.00	0.00	29.10	245.20	3.40	6.59	0.00			0.00	0.00	0.00	0.00	0.00	1.17	
204	WSTLD	1.04000	0.00	0.00	24.20	201.40	0.80	6.53	0.00	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35

********** 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
134	15.50	15.40	0.00504	0.0	0.00029	4.05	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
135	15.40	15.30	0.01007	0.0	0.00057	2.03	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.001
136	15.30	15.20	0.01511	0.0	0.00086	1.35	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.001
137	15.20	15.10	0.02015	0.0	0.00114	1.01	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.001
138	15.10	15.00	0.02519	0.0	0.00143	0.81	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.001
139	15.00	14.90	0.03022	0.0	0.00171	0.68	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
140	14.90	14.80	0.03526	0.0	0.00200	0.58	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
141	14.80	14.70	0.04030	0.0	0.00229	0.51	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
142	14.70	14.60	0.04534	0.0	0.00257	0.45	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
143	14.60	14.50	0.05037	0.0	0.00286	0.41	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
144	14.50	14.40	0.05541	0.0	0.00314	0.37	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
145	14.40	14.30	0.06045	0.0	0.00343	0.34	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
146	14.30	14.20	0.06549	0.0	0.00371	0.31	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.004
147	14.20	14.10	0.07052	0.0	0.00400	0.29	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.004
148	14.10	14.00	0.07556	0.0	0.00429	0.27	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.004
149	14.00	13.90	0.08060	0.0	0.00457	0.25	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.005
150	13.90	13.80	0.08563	0.0	0.00486	0.24	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.005
151	13.80	13.70	0.09067	0.0	0.00514	0.23	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.005
152	13.70	13.60	0.09571	0.0	0.00543	0.21	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.005
153	13.60	13.50	0.10075	0.0	0.00571	0.20	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.006
154	13.50	13.40	0.10578	0.0	0.00600	0.19	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.006
155	13.40	13.30	0.11082	0.0	0.00629	0.18	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.006
156	13.30	13.20	0.11586	0.0	0.00657	0.18	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.007
157	13.20	13.10	0.12090	0.0	0.00686	0.17	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.007
158	13.10	13.00	0.12593	0.0	0.00714	0.16	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.007
159	13.00	12.90	0.13097	0.0	0.00743	0.16	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.007
160	12.90	12.80	0.13601	0.0	0.00771	0.15	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.008
161	12.80	12.70	0.14105	0.0	0.00800	0.14	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.008
162	12.70	12.60	0.14608	0.0	0.00829	0.14	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.008
163	12.60	12.50	0.15112	0.0	0.00857	0.14	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.009
164	12.50	12.40	0.15616	0.0	0.00886	0.13	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.009
165	12.40	12.30	0.16119	0.0	0.00914	0.13	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.009
166	12.30	12.20	0.16623	0.0	0.00943	0.12	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.009
167	12.20	12.10	0.17127	0.0	0.00971	0.12	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.010
168	12.10	12.00	0.17631	0.0	0.01000	0.12	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.010
169	12.00	11.90	0.18134	0.0	0.01028	0.11	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.010
170	11.90	11.80	0.18638	0.0	0.01057	0.11	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.011
171	11.80	11.70	0.19142	0.0	0.01086	0.11	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.011
172	11.70	11.60	0.19646	0.0	0.01114	0.10	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.011
173	11.60	11.50	0.20149	0.0	0.01143	0.10	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.011
174	11.50	11.40	0.20653	0.0	0.01171	0.10	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.012
175	11.40	11.30	0.21157	0.0	0.01200	0.10	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.012
176	11.30	11.20	0.21661	0.0	0.01228	0.09	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.012
177	11.20	11.10	0.22164	0.0	0.01257	0.09	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.013
178	11.10	11.00	0.22668	0.0	0.01286	0.09	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.013
179	11.00	10.90	0.23172	0.0	0.01314	0.09	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.013
180	10.90	10.80	0.23675	0.0	0.01343	0.09	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.013
181	10.80	10.70	0.24179	0.0	0.01371	0.08	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.014
182	10.70	10.60	0.24683	0.0	0.01400	0.08	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.014
183	10.60	10.50	0.25187	0.0	0.01428	0.08	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.014

184	10.50	10.40	0.25690	0.0	0.01457	0.08	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.015
185	10.40	10.30	0.26194	0.0	0.01486	0.08	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.015
186	10.30	10.20	0.26698	0.0	0.01514	0.08	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.015
187	10.20	10.10	0.27202	0.0	0.01543	0.08	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.015
188	10.10	10.00	0.27705	0.0	0.01571	0.07	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.016
189	10.00	9.90	0.28209	0.0	0.01600	0.07	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.016
190	9.90	9.80	0.28713	0.0	0.01628	0.07	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.016
191	9.80	9.70	0.29217	0.0	0.01657	0.07	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.017
192	9.70	9.60	0.29720	0.0	0.01686	0.07	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.017
193	9.60	9.50	0.30224	0.0	0.01714	0.07	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.017
194	9.50	9.40	0.30728	0.0	0.01743	0.07	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.017
195	9.40	9.30	0.31231	0.0	0.01771	0.07	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.018
196	9.30	9.20	0.31735	0.0	0.01800	0.06	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.018
197	9.20	9.10	0.32239	0.0	0.01828	0.06	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.018
198	9.10	9.00	0.32743	0.0	0.01857	0.06	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.019
199	9.00	8.90	0.33246	0.0	0.01886	0.06	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.019
200	8.90	8.80	0.33750	0.0	0.01914	0.06	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.019
201	8.80	8.70	0.34254	0.0	0.01943	0.06	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.019
202	8.70	8.60	0.34758	0.0	0.01971	0.06	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.020
203	8.60	8.50	0.35261	0.0	0.02000	0.06	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.020
204	8.50	8.40	1.39765	74.4	0.07927	0.01	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.079
205	8.40	8.30	1.40269	74.1	0.07955	0.01	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.080
206	8.30	8.20	1.40773	73.9	0.07984	0.01	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.080
207	8.20	8.10	1.41276	73.6	0.08012	0.01	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.080
208	8.10	8.00	1.41780	73.4	0.08041	0.01	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.080
TOT						19.65			132240.09	174000.00					
AVG					0.00442		0.76	23.20			17.63				
CUM						19.65									

********** 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
134	15.400	7.93	1.01	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
135	15.300	7.93	1.01	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
136	15.200	7.93	1.02	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
137	15.100	7.93	1.03	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
138	15.000	7.93	1.03	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
139	14.900	7.93	1.04	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
140	14.800	7.93	1.04	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
141	14.700	7.93	1.05	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
142	14.600	7.93	1.06	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
143	14.500	7.93	1.06	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
144	14.400	7.93	1.07	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
145	14.300	7.93	1.07	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
146	14.200	7.93	1.08	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
147	14.100	7.93	1.09	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
148	14.000	7.93	1.09	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
149	13.900	7.93	1.10	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
150	13.800	7.93	1.11	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
151	13.700	7.93	1.11	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
152	13.600	7.93	1.12	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00

153	13.500	7.93	1.12	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
154	13.400	7.93	1.13	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
155	13.300	7.93	1.14	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
156	13.200	7.93	1.14	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
157	13.100	7.93	1.15	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
158	13.000	7.93	1.15	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
159	12.900	7.93	1.16	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
160	12.800	7.93	1.17	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
161	12.700	7.93	1.17	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
162	12.600	7.93	1.18	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
163	12.500	7.93	1.19	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
164	12.400	7.93	1.19	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
165	12.300	7.93	1.20	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
166	12.200	7.93	1.20	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
167	12.100	7.93	1.21	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
168	12.000	7.93	1.22	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
169	11.900	7.93	1.22	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
170	11.800	7.93	1.23	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
171	11.700	7.93	1.23	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
172	11.600	7.93	1.24	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
173	11.500	7.93	1.25	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
174	11.400	7.93	1.25	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
175	11.300	7.93	1.26	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
176	11.200	7.93	1.27	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
177	11.100	7.93	1.27	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
178	11.000	7.93	1.28	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
179	10.900	7.93	1.28	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
180	10.800	7.93	1.29	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
181	10.700	7.93	1.30	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
182	10.600	7.93	1.30	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
183	10.500	7.93	1.31	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
184	10.400	7.93	1.31	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
185	10.300	7.93	1.32	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
186	10.200	7.93	1.33	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
187	10.100	7.93	1.33	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
188	10.000	7.93	1.34	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
189	9.900	7.93	1.35	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
190	9.800	7.93	1.35	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
191	9.700	7.93	1.36	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
192	9.600	7.93	1.36	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
193	9.500	7.93	1.37	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
194	9.400	7.93	1.38	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
195	9.300	7.93	1.38	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
196	9.200	7.93	1.39	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
197	9.100	7.93	1.39	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
198	9.000	7.93	1.40	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
199	8.900	7.93	1.41	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
200	8.800	7.93	1.41	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
201	8.700	7.93	1.42	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
202	8.600	7.93	1.43	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
203	8.500	7.93	1.43	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
204	8.400	7.93	2.71	0.08	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00
205	8.300	7.93	2.71	0.09	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
206	8.200	7.93	2.72	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
207	8.100	7.93	2.73	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
208	8.000	7.93	2.73	0.10	0.00	0.00	0.00	0.00	0.00	3.62	3.62	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00

AVG 20 DEG C RATE 1.15 0.07 0.00 0.00 0.00 0.00 0.00 2.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.10 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
134	15.400	27.21	0.12	29.10	245.20	2.58	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
135	15.300	27.21	0.12	29.10	245.20	2.61	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
136	15.200	27.21	0.12	29.10	245.20	2.63	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
137	15.100	27.21	0.12	29.10	245.20	2.65	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
138	15.000	27.21	0.12	29.10	245.20	2.67	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
139	14.900	27.21	0.12	29.10	245.20	2.69	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
140	14.800	27.21	0.12	29.10	245.20	2.71	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
141	14.700	27.21	0.12	29.10	245.20	2.73	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
142	14.600	27.21	0.12	29.10	245.20	2.75	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
143	14.500	27.21	0.12	29.10	245.20	2.77	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
144	14.400	27.21	0.12	29.10	245.20	2.80	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
145	14.300	27.21	0.12	29.10	245.20	2.82	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
146	14.200	27.21	0.12	29.10	245.20	2.84	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
147	14.100	27.21	0.12	29.10	245.20	2.86	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
148	14.000	27.21	0.12	29.10	245.20	2.88	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
149	13.900	27.21	0.12	29.10	245.20	2.90	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
150	13.800	27.21	0.12	29.10	245.20	2.92	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
151	13.700	27.21	0.12	29.10	245.20	2.94	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
152	13.600	27.21	0.12	29.10	245.20	2.95	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
153	13.500	27.21	0.12	29.10	245.20	2.97	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
154	13.400	27.21	0.12	29.10	245.20	2.99	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
155	13.300	27.21	0.12	29.10	245.20	3.01	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
156	13.200	27.21	0.12	29.10	245.20	3.03	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
157	13.100	27.21	0.12	29.10	245.20	3.05	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
158	13.000	27.21	0.12	29.10	245.20	3.07	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
159	12.900	27.21	0.12	29.10	245.20	3.09	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
160	12.800	27.21	0.12	29.10	245.20	3.11	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
161	12.700	27.21	0.12	29.10	245.20	3.12	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
162	12.600	27.21	0.12	29.10	245.20	3.14	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
163	12.500	27.21	0.12	29.10	245.20	3.16	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
164	12.400	27.21	0.12	29.10	245.20	3.18	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
165	12.300	27.21	0.12	29.10	245.20	3.20	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
166	12.200	27.21	0.12	29.10	245.20	3.21	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
167	12.100	27.21	0.12	29.10	245.20	3.23	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
168	12.000	27.21	0.12	29.10	245.20	3.25	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
169	11.900	27.21	0.12	29.10	245.20	3.27	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
170	11.800	27.21	0.12	29.10	245.20	3.28	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
171	11.700	27.21	0.12	29.10	245.20	3.30	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
172	11.600	27.21	0.12	29.10	245.20	3.32	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
173	11.500	27.21	0.12	29.10	245.20	3.33	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
174	11.400	27.21	0.12	29.10	245.20	3.35	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
175	11.300	27.21	0.12	29.10	245.20	3.37	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
176	11.200	27.21	0.12	29.10	245.20	3.38	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
177	11.100	27.21	0.12	29.10	245.20	3.40	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
178	11.000	27.21	0.12	29.10	245.20	3.42	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17

179	10.900	27.21	0.12	29.10	245.20	3.43	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
180	10.800	27.21	0.12	29.10	245.20	3.45	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
181	10.700	27.21	0.12	29.10	245.20	3.47	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
182	10.600	27.21	0.12	29.10	245.20	3.48	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
183	10.500	27.21	0.12	29.10	245.20	3.50	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
184	10.400	27.21	0.12	29.10	245.20	3.51	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
185	10.300	27.21	0.12	29.10	245.20	3.53	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
186	10.200	27.21	0.12	29.10	245.20	3.54	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
187	10.100	27.21	0.12	29.10	245.20	3.56	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
188	10.000	27.21	0.12	29.10	245.20	3.57	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
189	9.900	27.21	0.12	29.10	245.20	3.59	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
190	9.800	27.21	0.12	29.10	245.20	3.61	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
191	9.700	27.21	0.12	29.10	245.20	3.62	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
192	9.600	27.21	0.12	29.10	245.20	3.64	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
193	9.500	27.21	0.12	29.10	245.20	3.65	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
194	9.400	27.21	0.12	29.10	245.20	3.67	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
195	9.300	27.21	0.12	29.10	245.20	3.68	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
196	9.200	27.21	0.12	29.10	245.20	3.69	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
197	9.100	27.21	0.12	29.10	245.20	3.71	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
198	9.000	27.21	0.12	29.10	245.20	3.72	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
199	8.900	27.21	0.12	29.10	245.20	3.74	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
200	8.800	27.21	0.12	29.10	245.20	3.75	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
201	8.700	27.21	0.12	29.10	245.20	3.77	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
202	8.600	27.21	0.12	29.10	245.20	3.78	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
203	8.500	27.21	0.12	29.10	245.20	3.79	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
204	8.400	27.21	0.12	25.45	212.61	1.74	6.52	0.00	6.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
205	8.300	27.21	0.12	25.47	212.73	1.90	6.52	0.00	6.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
206	8.200	27.21	0.12	25.48	212.84	2.06	6.52	0.00	6.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
207	8.100	27.21	0.12	25.49	212.96	2.21	6.52	0.00	6.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
208	8.000	27.21	0.12	25.51	213.07	2.35	6.52	0.00	6.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30

********** 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
209	UPR RCH	1.41780	27.21	0.12	25.51	213.07	2.35	6.52	0.00	6.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30
EACH	INCR	0.00504	0.00	0.00	29.10	245.20	3.40	6.59	0.00			0.00	0.00	0.00	0.00	0.00	1.17	
227	WSTLD	1.04000	0.00	0.00	24.20	201.40	0.80	6.53	0.00	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
209	8.00	7.90	1.42284	73.1	0.05694	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.057
210	7.90	7.80	1.42787	72.8	0.05714	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.057
211	7.80	7.70	1.43291	72.6	0.05734	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.057
212	7.70	7.60	1.43795	72.3	0.05754	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.058
213	7.60	7.50	1.44298	72.1	0.05774	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.058
214	7.50	7.40	1.44802	71.8	0.05794	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.058
215	7.40	7.30	1.45305	71.6	0.05815	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.058
216	7.30	7.20	1.45809	71.3	0.05835	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.058
217	7.20	7.10	1.46313	71.1	0.05855	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.059
218	7.10	7.00	1.46816	70.8	0.05875	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.059
219	7.00	6.90	1.47320	70.6	0.05895	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.059
220	6.90	6.80	1.47824	70.4	0.05915	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.059
221	6.80	6.70	1.48327	70.1	0.05935	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.059
222	6.70	6.60	1.48831	69.9	0.05956	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.060
223	6.60	6.50	1.49335	69.6	0.05976	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.060
224	6.50	6.40	1.49838	69.4	0.05996	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.060
225	6.40	6.30	1.50342	69.2	0.06016	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.060
226	6.30	6.20	1.50845	68.9	0.06036	0.02	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.060
227	6.20	6.10	2.55349	81.5	0.10218	0.01	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.102
228	6.10	6.00	2.55853	81.3	0.10238	0.01	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.102
229	6.00	5.90	2.56356	81.1	0.10258	0.01	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.103
230	5.90	5.80	2.56860	81.0	0.10279	0.01	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.103
TOT						0.40			54978.00	52360.00					
AVG					0.06358		1.05	23.80			24.99				
CUM						20.05									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
209	7.900	7.93	1.61	0.10	0.00	0.00	0.00	0.00	0.00	9.46	9.46	9.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
210	7.800	7.93	1.62	0.10	0.00	0.00	0.00	0.00	0.00	9.48	9.48	9.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
211	7.700	7.92	1.62	0.10	0.00	0.00	0.00	0.00	0.00	9.49	9.49	9.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
212	7.600	7.92	1.62	0.10	0.00	0.00	0.00	0.00	0.00	9.51	9.51	9.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
213	7.500	7.92	1.63	0.10	0.00	0.00	0.00	0.00	0.00	9.52	9.52	9.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
214	7.400	7.91	1.63	0.10	0.00	0.00	0.00	0.00	0.00	9.53	9.53	9.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
215	7.300	7.91	1.64	0.10	0.00	0.00	0.00	0.00	0.00	9.55	9.55	9.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
216	7.200	7.91	1.64	0.10	0.00	0.00	0.00	0.00	0.00	9.56	9.56	9.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
217	7.100	7.90	1.64	0.10	0.00	0.00	0.00	0.00	0.00	9.58	9.58	9.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
218	7.000	7.90	1.65	0.10	0.00	0.00	0.00	0.00	0.00	9.59	9.59	9.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
219	6.900	7.90	1.65	0.10	0.00	0.00	0.00	0.00	0.00	9.61	9.61	9.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
220	6.800	7.89	1.65	0.10	0.00	0.00	0.00	0.00	0.00	9.62	9.62	9.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
221	6.700	7.89	1.66	0.10	0.00	0.00	0.00	0.00	0.00	9.64	9.64	9.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
222	6.600	7.89	1.66	0.10	0.00	0.00	0.00	0.00	0.00	9.65	9.65	9.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
223	6.500	7.88	1.67	0.10	0.00	0.00	0.00	0.00	0.00	9.67	9.67	9.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
224	6.400	7.88	1.67	0.10	0.00	0.00	0.00	0.00	0.00	9.68	9.68	9.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
225	6.300	7.88	1.67	0.10	0.00	0.00	0.00	0.00	0.00	9.69	9.69	9.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
226	6.200	7.87	1.68	0.10	0.00	0.00	0.00	0.00	0.00	9.71	9.71	9.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
227	6.100	7.87	2.34	0.08	0.00	0.00	0.00	0.00	0.00	9.72	9.72	7.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00
228	6.000	7.86	2.34	0.08	0.00	0.00	0.00	0.00	0.00	9.74	9.74	8.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00
229	5.900	7.86	2.34	0.09	0.00	0.00	0.00	0.00	0.00	9.75	9.75	8.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00
230	5.800	7.86	2.35	0.09	0.00	0.00	0.00	0.00	0.00	9.77	9.77	8.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00
AVG 20 DEG C RATE			1.54	0.07	0.00	0.00	0.00	0.00	0.00	6.00			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
209	7.900	27.23	0.12	25.52	213.19	2.34	6.87	0.00	6.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35
210	7.800	27.26	0.12	25.53	213.30	2.32	7.23	0.00	7.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.39
211	7.700	27.28	0.12	25.54	213.41	2.31	7.58	0.00	7.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.43
212	7.600	27.31	0.12	25.56	213.52	2.29	7.92	0.00	7.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
213	7.500	27.33	0.12	25.57	213.63	2.28	8.27	0.00	8.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
214	7.400	27.35	0.12	25.58	213.74	2.26	8.61	0.00	8.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.56
215	7.300	27.38	0.12	25.59	213.85	2.25	8.95	0.00	8.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.61
216	7.200	27.40	0.12	25.61	213.96	2.23	9.28	0.00	9.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.65
217	7.100	27.43	0.12	25.62	214.07	2.22	9.61	0.00	9.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.69
218	7.000	27.45	0.12	25.63	214.17	2.20	9.94	0.00	9.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
219	6.900	27.47	0.12	25.64	214.28	2.18	10.27	0.00	10.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.77
220	6.800	27.50	0.12	25.65	214.38	2.17	10.59	0.00	10.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.81
221	6.700	27.52	0.12	25.66	214.49	2.15	10.91	0.00	10.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.85
222	6.600	27.55	0.12	25.68	214.59	2.14	11.23	0.00	11.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.89
223	6.500	27.57	0.12	25.69	214.70	2.12	11.54	0.00	11.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.93
224	6.400	27.60	0.12	25.70	214.80	2.10	11.85	0.00	11.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.97
225	6.300	27.62	0.12	25.71	214.90	2.09	12.16	0.00	12.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.00

226	6.200	27.64	0.12	25.72	215.00	2.07	12.47	0.00	12.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04
227	6.100	27.67	0.12	25.11	209.52	1.62	10.24	0.00	10.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.78
228	6.000	27.69	0.12	25.12	209.59	1.69	10.42	0.00	10.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.81
229	5.900	27.72	0.12	25.12	209.66	1.75	10.61	0.00	10.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.83
230	5.800	27.74	0.12	25.13	209.73	1.80	10.80	0.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.85

FINAL REPORT Halpin Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 7 Halpin Canal Calibration Simulation for Beouf System Model

********** 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
231	UPR RCH	2.56860	27.74	0.12	25.13	209.73	1.80	10.80	0.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85

********** 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
231	5.80	5.70	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
232	5.70	5.60	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
233	5.60	5.50	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
234	5.50	5.40	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
235	5.40	5.30	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
236	5.30	5.20	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
237	5.20	5.10	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
238	5.10	5.00	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
239	5.00	4.90	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
240	4.90	4.80	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
241	4.80	4.70	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
242	4.70	4.60	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
243	4.60	4.50	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
244	4.50	4.40	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
245	4.40	4.30	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
246	4.30	4.20	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
247	4.20	4.10	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
248	4.10	4.00	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
249	4.00	3.90	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
250	3.90	3.80	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
251	3.80	3.70	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
252	3.70	3.60	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
253	3.60	3.50	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
254	3.50	3.40	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
255	3.40	3.30	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
256	3.30	3.20	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
257	3.20	3.10	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
258	3.10	3.00	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
259	3.00	2.90	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
260	2.90	2.80	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
261	2.80	2.70	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079

262	2.70	2.60	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
263	2.60	2.50	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
264	2.50	2.40	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
265	2.40	2.30	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
266	2.30	2.20	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
267	2.20	2.10	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
268	2.10	2.00	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
269	2.00	1.90	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
270	1.90	1.80	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
271	1.80	1.70	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
272	1.70	1.60	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
273	1.60	1.50	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
274	1.50	1.40	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
275	1.40	1.30	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
276	1.30	1.20	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
277	1.20	1.10	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
278	1.10	1.00	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
279	1.00	0.90	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
280	0.90	0.80	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
281	0.80	0.70	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
282	0.70	0.60	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
283	0.60	0.50	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
284	0.50	0.40	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
285	0.40	0.30	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
286	0.30	0.20	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
287	0.20	0.10	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
288	0.10	0.00	2.56860	81.0	0.07856	0.01	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.079
TOT						0.85			189636.73	141520.00					
AVG					0.07856		1.34	24.40			32.70				
CUM						20.91									

********** 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
231	5.700	7.86	1.54	0.09	0.00	0.00	0.00	0.00	0.00	5.70	5.70	5.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
232	5.600	7.85	1.54	0.10	0.00	0.00	0.00	0.00	0.00	5.71	5.71	5.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
233	5.500	7.85	1.54	0.10	0.00	0.00	0.00	0.00	0.00	5.72	5.72	5.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
234	5.400	7.85	1.54	0.10	0.00	0.00	0.00	0.00	0.00	5.72	5.72	5.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
235	5.300	7.85	1.54	0.10	0.00	0.00	0.00	0.00	0.00	5.73	5.73	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
236	5.200	7.84	1.54	0.10	0.00	0.00	0.00	0.00	0.00	5.73	5.73	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
237	5.100	7.84	1.54	0.10	0.00	0.00	0.00	0.00	0.00	5.74	5.74	5.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
238	5.000	7.84	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.75	5.75	5.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
239	4.900	7.84	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.75	5.75	5.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
240	4.800	7.84	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.76	5.76	5.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
241	4.700	7.83	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.76	5.76	5.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
242	4.600	7.83	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.77	5.77	5.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
243	4.500	7.83	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
244	4.400	7.83	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.78	5.78	5.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
245	4.300	7.82	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.79	5.79	5.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
246	4.200	7.82	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.79	5.79	5.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
247	4.100	7.82	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.80	5.80	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00

248	4.000	7.82	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.81	5.81	5.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
249	3.900	7.82	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.81	5.81	5.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
250	3.800	7.81	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.82	5.82	5.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
251	3.700	7.81	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.82	5.82	5.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
252	3.600	7.81	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.83	5.83	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
253	3.500	7.81	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.84	5.84	5.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
254	3.400	7.80	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.84	5.84	5.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
255	3.300	7.80	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.85	5.85	5.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
256	3.200	7.80	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.85	5.85	5.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
257	3.100	7.80	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.86	5.86	5.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
258	3.000	7.79	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.87	5.87	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
259	2.900	7.79	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.87	5.87	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
260	2.800	7.79	1.55	0.10	0.00	0.00	0.00	0.00	0.00	5.88	5.88	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
261	2.700	7.79	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.88	5.88	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
262	2.600	7.79	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.89	5.89	5.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
263	2.500	7.78	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.90	5.90	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
264	2.400	7.78	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.90	5.90	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
265	2.300	7.78	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.91	5.91	5.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
266	2.200	7.78	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.91	5.91	5.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
267	2.100	7.77	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.92	5.92	5.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
268	2.000	7.77	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.93	5.93	5.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
269	1.900	7.77	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.93	5.93	5.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
270	1.800	7.77	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.94	5.94	5.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
271	1.700	7.77	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.94	5.94	5.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
272	1.600	7.76	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.95	5.95	5.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
273	1.500	7.76	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.96	5.96	5.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
274	1.400	7.76	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.96	5.96	5.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
275	1.300	7.76	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.97	5.97	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
276	1.200	7.75	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.98	5.98	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
277	1.100	7.75	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.98	5.98	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
278	1.000	7.75	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.99	5.99	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
279	0.900	7.75	1.56	0.10	0.00	0.00	0.00	0.00	0.00	5.99	5.99	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
280	0.800	7.75	1.56	0.10	0.00	0.00	0.00	0.00	0.00	6.00	6.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
281	0.700	7.74	1.56	0.10	0.00	0.00	0.00	0.00	0.00	6.01	6.01	6.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
282	0.600	7.74	1.56	0.10	0.00	0.00	0.00	0.00	0.00	6.01	6.01	6.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
283	0.500	7.74	1.57	0.10	0.00	0.00	0.00	0.00	0.00	6.02	6.02	6.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
284	0.400	7.74	1.57	0.10	0.00	0.00	0.00	0.00	0.00	6.02	6.02	6.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
285	0.300	7.73	1.57	0.10	0.00	0.00	0.00	0.00	0.00	6.03	6.03	6.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
286	0.200	7.73	1.57	0.10	0.00	0.00	0.00	0.00	0.00	6.04	6.04	6.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
287	0.100	7.73	1.57	0.10	0.00	0.00	0.00	0.00	0.00	6.04	6.04	6.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
288	0.000	7.73	1.57	0.10	0.00	0.00	0.00	0.00	0.00	6.05	6.05	6.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			1.33	0.07	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	0.10	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
231	5.700	27.76	0.12	25.13	209.73	1.86	10.84	0.00	10.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.86
232	5.600	27.77	0.12	25.13	209.73	1.92	10.89	0.00	10.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.87
233	5.500	27.79	0.12	25.13	209.73	1.97	10.94	0.00	10.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.88
234	5.400	27.81	0.12	25.13	209.73	2.02	10.98	0.00	10.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.89

235	5.300	27.82	0.12	25.13	209.73	2.06	11.03	0.00	11.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.89
236	5.200	27.84	0.12	25.13	209.73	2.11	11.07	0.00	11.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.90
237	5.100	27.85	0.12	25.13	209.73	2.16	11.12	0.00	11.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.91
238	5.000	27.87	0.12	25.13	209.73	2.20	11.17	0.00	11.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.92
239	4.900	27.89	0.12	25.13	209.73	2.24	11.21	0.00	11.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.92
240	4.800	27.90	0.12	25.13	209.73	2.28	11.26	0.00	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.93
241	4.700	27.92	0.12	25.13	209.73	2.32	11.30	0.00	11.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.94
242	4.600	27.94	0.12	25.13	209.73	2.36	11.35	0.00	11.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.95
243	4.500	27.95	0.12	25.13	209.73	2.40	11.39	0.00	11.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.95
244	4.400	27.97	0.12	25.13	209.73	2.44	11.44	0.00	11.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.96
245	4.300	27.99	0.12	25.13	209.73	2.48	11.48	0.00	11.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.97
246	4.200	28.00	0.12	25.13	209.73	2.51	11.53	0.00	11.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.98
247	4.100	28.02	0.12	25.13	209.73	2.55	11.57	0.00	11.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.98
248	4.000	28.03	0.12	25.13	209.73	2.58	11.62	0.00	11.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.99
249	3.900	28.05	0.12	25.13	209.73	2.61	11.66	0.00	11.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.00
250	3.800	28.07	0.12	25.13	209.73	2.64	11.71	0.00	11.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.01
251	3.700	28.08	0.12	25.13	209.73	2.67	11.75	0.00	11.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.01
252	3.600	28.10	0.12	25.13	209.73	2.70	11.80	0.00	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.02
253	3.500	28.12	0.12	25.13	209.73	2.73	11.84	0.00	11.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.03
254	3.400	28.13	0.12	25.13	209.73	2.76	11.89	0.00	11.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.03
255	3.300	28.15	0.12	25.13	209.73	2.79	11.93	0.00	11.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04
256	3.200	28.17	0.12	25.13	209.73	2.81	11.97	0.00	11.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.05
257	3.100	28.18	0.12	25.13	209.73	2.84	12.02	0.00	12.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.06
258	3.000	28.20	0.12	25.13	209.73	2.86	12.06	0.00	12.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.06
259	2.900	28.22	0.12	25.13	209.73	2.89	12.11	0.00	12.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.07
260	2.800	28.23	0.12	25.13	209.73	2.91	12.15	0.00	12.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.08
261	2.700	28.25	0.12	25.13	209.73	2.94	12.19	0.00	12.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.08
262	2.600	28.26	0.12	25.13	209.73	2.96	12.24	0.00	12.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.09
263	2.500	28.28	0.12	25.13	209.73	2.98	12.28	0.00	12.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
264	2.400	28.30	0.12	25.13	209.73	3.00	12.32	0.00	12.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.11
265	2.300	28.31	0.12	25.13	209.73	3.02	12.37	0.00	12.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.11
266	2.200	28.33	0.12	25.13	209.73	3.04	12.41	0.00	12.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.12
267	2.100	28.35	0.12	25.13	209.73	3.06	12.45	0.00	12.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.13
268	2.000	28.36	0.12	25.13	209.73	3.08	12.50	0.00	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.13
269	1.900	28.38	0.11	25.13	209.73	3.09	12.54	0.00	12.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.14
270	1.800	28.40	0.11	25.13	209.73	3.11	12.58	0.00	12.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.15
271	1.700	28.41	0.11	25.13	209.73	3.13	12.63	0.00	12.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.15
272	1.600	28.43	0.11	25.13	209.73	3.14	12.67	0.00	12.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.16
273	1.500	28.44	0.11	25.13	209.73	3.16	12.71	0.00	12.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.17
274	1.400	28.46	0.11	25.13	209.73	3.17	12.76	0.00	12.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.17
275	1.300	28.48	0.11	25.13	209.73	3.19	12.80	0.00	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.18
276	1.200	28.49	0.11	25.13	209.73	3.20	12.84	0.00	12.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.19
277	1.100	28.51	0.11	25.13	209.73	3.21	12.88	0.00	12.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.19
278	1.000	28.53	0.11	25.13	209.73	3.23	12.93	0.00	12.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.20
279	0.900	28.54	0.11	25.13	209.73	3.24	12.97	0.00	12.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.21
280	0.800	28.56	0.11	25.13	209.73	3.25	13.01	0.00	13.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.21
281	0.700	28.58	0.11	25.13	209.73	3.26	13.05	0.00	13.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.22
282	0.600	28.59	0.11	25.13	209.73	3.27	13.09	0.00	13.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.23
283	0.500	28.61	0.11	25.13	209.73	3.28	13.14	0.00	13.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.23
284	0.400	28.62	0.11	25.13	209.73	3.29	13.18	0.00	13.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.24
285	0.300	28.64	0.11	25.13	209.73	3.30	13.22	0.00	13.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.25
286	0.200	28.66	0.11	25.13	209.73	3.31	13.26	0.00	13.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.25
287	0.100	28.67	0.11	25.13	209.73	3.32	13.30	0.00	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.26
288	0.000	28.69	0.11	25.13	209.73	3.33	13.35	0.00	13.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.27

STREAM SUMMARY
Halpin Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Calibration Simulation for Beouf System Model

TRAVEL TIME	=	20.91	DAYS		
MAXIMUM EFFLUENT	=	81.46	PERCENT		
FLOW	=	0.00504	TO	2.56860	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00029	TO	0.10279	m/s
DEPTH	=	0.76	TO	1.34	m
WIDTH	=	23.20	TO	24.40	m
BOD DECAY	=	0.08	TO	0.10	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	3.15	TO	9.71	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	1.01	TO	2.73	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	=	27.21	TO	28.69	deg C
DISSOLVED OXYGEN	=	1.62	TO	3.79	mg/L

FINAL REPORT Grand Bayou
REACH NO. 9 Grand Bayou

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Calibration Simulation for Beouf System Model

********** 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
304	HDWTR	2.18000	0.00	0.00	12.10	143.00	2.40	8.41	0.00	8.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50
EACH	INCR	0.00913	0.00	0.00	22.50	208.00	1.32	8.24	0.00			0.00	0.00	0.00	0.00	0.00	2.16	

********** 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
304	22.00	21.90	2.18913	0.0	0.11271	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.113
305	21.90	21.80	2.19825	0.0	0.11318	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.113
306	21.80	21.70	2.20738	0.0	0.11365	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.114
307	21.70	21.60	2.21651	0.0	0.11412	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.114
308	21.60	21.50	2.22564	0.0	0.11459	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.115
309	21.50	21.40	2.23476	0.0	0.11506	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.115
310	21.40	21.30	2.24389	0.0	0.11553	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.116
311	21.30	21.20	2.25302	0.0	0.11600	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.116
312	21.20	21.10	2.26215	0.0	0.11647	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.116
313	21.10	21.00	2.27127	0.0	0.11694	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.117
314	21.00	20.90	2.28040	0.0	0.11741	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.117

315	20.90	20.80	2.28953	0.0	0.11788	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.118
316	20.80	20.70	2.29866	0.0	0.11835	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.118
317	20.70	20.60	2.30778	0.0	0.11882	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.119
318	20.60	20.50	2.31691	0.0	0.11929	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.119
319	20.50	20.40	2.32604	0.0	0.11976	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.120
320	20.40	20.30	2.33517	0.0	0.12023	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.120
321	20.30	20.20	2.34429	0.0	0.12070	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.121
322	20.20	20.10	2.35342	0.0	0.12117	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.121
323	20.10	20.00	2.36255	0.0	0.12164	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.122
324	20.00	19.90	2.37168	0.0	0.12211	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.122
325	19.90	19.80	2.38080	0.0	0.12258	0.01	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.123
TOT						0.22			42728.39	42900.00					
AVG					0.11757		1.00	19.50			19.42				
CUM						0.22									

********** 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
304	21.900	7.99	2.60	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
305	21.800	7.99	2.61	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
306	21.700	7.99	2.61	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
307	21.600	7.99	2.62	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
308	21.500	7.99	2.63	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
309	21.400	7.99	2.64	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
310	21.300	7.99	2.64	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
311	21.200	7.99	2.65	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
312	21.100	7.99	2.66	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
313	21.000	7.99	2.67	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
314	20.900	7.99	2.67	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
315	20.800	7.99	2.68	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
316	20.700	7.99	2.69	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
317	20.600	7.99	2.70	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
318	20.500	7.99	2.70	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
319	20.400	7.99	2.71	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
320	20.300	7.99	2.72	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
321	20.200	7.99	2.73	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
322	20.100	7.99	2.74	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
323	20.000	7.99	2.74	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
324	19.900	7.99	2.75	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
325	19.800	7.99	2.76	0.07	0.00	0.00	0.00	0.00	0.00	12.29	12.29	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
AVG 20 DEG C RATE			2.35	0.05	0.00	0.00	0.00	0.00	0.00	8.00			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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

304	21.900	26.82	0.08	12.14	143.27	2.40	8.43	0.00	8.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
305	21.800	26.82	0.08	12.19	143.54	2.39	8.44	0.00	8.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.55
306	21.700	26.82	0.08	12.23	143.81	2.39	8.46	0.00	8.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.57
307	21.600	26.82	0.08	12.27	144.07	2.39	8.48	0.00	8.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
308	21.500	26.82	0.08	12.31	144.33	2.39	8.50	0.00	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.62
309	21.400	26.82	0.08	12.35	144.59	2.39	8.51	0.00	8.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.64
310	21.300	26.82	0.08	12.40	144.85	2.39	8.53	0.00	8.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.67
311	21.200	26.82	0.08	12.44	145.11	2.39	8.54	0.00	8.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.69
312	21.100	26.82	0.08	12.48	145.36	2.39	8.56	0.00	8.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.71
313	21.000	26.82	0.08	12.52	145.61	2.39	8.58	0.00	8.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.73
314	20.900	26.82	0.08	12.56	145.86	2.39	8.59	0.00	8.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.75
315	20.800	26.82	0.08	12.60	146.11	2.39	8.61	0.00	8.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.77
316	20.700	26.82	0.08	12.64	146.36	2.39	8.62	0.00	8.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.79
317	20.600	26.82	0.08	12.68	146.60	2.39	8.64	0.00	8.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.82
318	20.500	26.82	0.08	12.71	146.84	2.39	8.66	0.00	8.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
319	20.400	26.82	0.08	12.75	147.08	2.39	8.67	0.00	8.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
320	20.300	26.82	0.08	12.79	147.32	2.40	8.69	0.00	8.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.88
321	20.200	26.82	0.08	12.83	147.56	2.40	8.70	0.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.90
322	20.100	26.82	0.08	12.87	147.79	2.40	8.72	0.00	8.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.91
323	20.000	26.82	0.08	12.90	148.02	2.40	8.73	0.00	8.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.93
324	19.900	26.82	0.08	12.94	148.25	2.41	8.75	0.00	8.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.95
325	19.800	26.82	0.08	12.98	148.48	2.41	8.76	0.00	8.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.97

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
326	UPR RCH	2.38080	26.82	0.08	12.98	148.48	2.41	8.76	0.00	8.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.97
EACH	INCR	0.00913	0.00	0.00	22.50	208.00	1.32	8.24	0.00			0.00	0.00	0.00	0.00	0.00	2.16	
327	WSTLD	1.04000	0.00	0.00	19.40	207.70	1.90	9.95	0.00	9.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.97

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
326	19.80	19.70	2.38993	0.0	0.04854	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.049
327	19.70	19.60	3.43906	30.2	0.06985	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.070
328	19.60	19.50	3.44819	30.2	0.07003	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.070
329	19.50	19.40	3.45731	30.1	0.07022	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.070
330	19.40	19.30	3.46644	30.0	0.07040	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.070
331	19.30	19.20	3.47557	29.9	0.07059	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.071
332	19.20	19.10	3.48470	29.8	0.07077	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.071
333	19.10	19.00	3.49383	29.8	0.07096	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.071
334	19.00	18.90	3.50296	29.7	0.07114	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.071
335	18.90	18.80	3.51208	29.6	0.07133	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.071
336	18.80	18.70	3.52121	29.5	0.07151	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.072
337	18.70	18.60	3.53034	29.5	0.07170	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.072
338	18.60	18.50	3.53947	29.4	0.07189	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.072
339	18.50	18.40	3.54860	29.3	0.07207	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.072
340	18.40	18.30	3.55772	29.2	0.07226	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.072
341	18.30	18.20	3.56685	29.2	0.07244	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.072
342	18.20	18.10	3.57598	29.1	0.07263	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.073
343	18.10	18.00	3.58511	29.0	0.07281	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.073
344	18.00	17.90	3.59424	28.9	0.07300	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.073
345	17.90	17.80	3.60336	28.9	0.07318	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.073
346	17.80	17.70	3.61249	28.8	0.07337	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.073
347	17.70	17.60	3.62162	28.7	0.07355	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.074
348	17.60	17.50	3.63075	28.6	0.07374	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.074
349	17.50	17.40	3.63988	28.6	0.07392	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.074
350	17.40	17.30	3.64900	28.5	0.07411	0.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.074
TOT						0.41			123093.75	81250.00					
AVG					0.07059		1.51	32.50			49.24				
CUM						0.63									

********** 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
326	19.700	7.99	1.02	0.07	0.00	0.00	0.00	0.00	0.00	10.76	10.76	10.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
327	19.600	7.99	1.25	0.07	0.00	0.00	0.00	0.00	0.00	10.76	10.76	10.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
328	19.500	7.99	1.25	0.07	0.00	0.00	0.00	0.00	0.00	10.76	10.76	10.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
329	19.400	7.99	1.25	0.07	0.00	0.00	0.00	0.00	0.00	10.76	10.76	10.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
330	19.300	7.99	1.25	0.07	0.00	0.00	0.00	0.00	0.00	10.76	10.76	10.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
331	19.200	7.99	1.26	0.07	0.00	0.00	0.00	0.00	0.00	10.76	10.76	10.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
332	19.100	7.99	1.26	0.07	0.00	0.00	0.00	0.00	0.00	10.76	10.76	10.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
333	19.000	7.99	1.26	0.07	0.00	0.00	0.00	0.00	0.00	10.76	10.76	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00
334	18.900	7.99	1.26	0.07	0.00	0.00	0.00	0.00	0.00	10.76	10.76	10.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00
335	18.800	7.99	1.26	0.07	0.00	0.00	0.00	0.00	0.00	10.76	10.76	10.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00
336	18.700	7.99	1.27	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	10.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00
337	18.600	7.99	1.27	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	10.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
338	18.500	7.99	1.27	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	9.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
339	18.400	7.99	1.27	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	9.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
340	18.300	7.99	1.27	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	9.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00
341	18.200	7.99	1.28	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	9.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00
342	18.100	7.99	1.28	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	9.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00
343	18.000	7.99	1.28	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	9.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00
344	17.900	7.99	1.28	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	9.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00
345	17.800	7.99	1.28	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	9.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00
346	17.700	7.99	1.29	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	9.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00
347	17.600	7.99	1.29	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	9.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00
348	17.500	7.99	1.29	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00
349	17.400	7.99	1.29	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	9.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00
350	17.300	7.99	1.29	0.06	0.00	0.00	0.00	0.00	0.00	10.76	10.76	9.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00
AVG 20 DEG C RATE			1.11	0.05	0.00	0.00	0.00	0.00	0.00	7.00			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
326	19.700	26.82	0.08	13.01	148.71	2.32	8.76	0.00	8.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.96
327	19.600	26.82	0.08	14.97	166.71	2.15	9.12	0.00	9.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.95
328	19.500	26.82	0.08	14.99	166.82	2.12	9.12	0.00	9.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.94
329	19.400	26.82	0.08	15.01	166.92	2.08	9.13	0.00	9.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.94
330	19.300	26.82	0.08	15.03	167.03	2.05	9.13	0.00	9.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.93
331	19.200	26.82	0.08	15.05	167.14	2.02	9.13	0.00	9.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.92
332	19.100	26.82	0.08	15.07	167.25	1.99	9.13	0.00	9.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.91
333	19.000	26.82	0.08	15.09	167.35	1.96	9.13	0.00	9.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.91
334	18.900	26.82	0.08	15.11	167.46	1.93	9.13	0.00	9.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.90
335	18.800	26.82	0.08	15.13	167.56	1.91	9.13	0.00	9.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.89
336	18.700	26.82	0.08	15.15	167.67	1.89	9.13	0.00	9.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.89
337	18.600	26.82	0.08	15.16	167.77	1.87	9.13	0.00	9.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.88
338	18.500	26.82	0.08	15.18	167.88	1.86	9.13	0.00	9.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
339	18.400	26.82	0.08	15.20	167.98	1.84	9.14	0.00	9.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87

340	18.300	26.82	0.08	15.22	168.08	1.83	9.14	0.00	9.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
341	18.200	26.82	0.08	15.24	168.19	1.82	9.14	0.00	9.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
342	18.100	26.82	0.08	15.26	168.29	1.81	9.14	0.00	9.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
343	18.000	26.82	0.08	15.28	168.39	1.80	9.14	0.00	9.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
344	17.900	26.82	0.08	15.30	168.49	1.79	9.14	0.00	9.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
345	17.800	26.82	0.08	15.31	168.59	1.78	9.15	0.00	9.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
346	17.700	26.82	0.08	15.33	168.69	1.78	9.15	0.00	9.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
347	17.600	26.82	0.08	15.35	168.79	1.77	9.15	0.00	9.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.83
348	17.500	26.82	0.08	15.37	168.89	1.77	9.15	0.00	9.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.83
349	17.400	26.82	0.08	15.39	168.98	1.76	9.15	0.00	9.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.83
350	17.300	26.82	0.08	15.40	169.08	1.76	9.16	0.00	9.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.82

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 11 Grand Bayou Calibration Simulation for Beouf System Model

********** 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
351	UPR RCH	3.64900	26.82	0.08	15.40	169.08	1.76	9.16	0.00	9.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.82
EACH	INCR	0.00913	0.00	0.00	22.50	208.00	1.32	8.24	0.00			0.00	0.00	0.00	0.00	0.00	2.16	

********** 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
351	17.30	17.20	3.65813	28.4	0.11163	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.112
352	17.20	17.10	3.66726	28.4	0.11191	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.112
353	17.10	17.00	3.67639	28.3	0.11218	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.112
354	17.00	16.90	3.68552	28.2	0.11246	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.112
355	16.90	16.80	3.69465	28.1	0.11274	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.113
356	16.80	16.70	3.70378	28.1	0.11302	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.113
357	16.70	16.60	3.71291	28.0	0.11330	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.113
358	16.60	16.50	3.72204	27.9	0.11358	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.114
359	16.50	16.40	3.73117	27.9	0.11386	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.114
360	16.40	16.30	3.74030	27.8	0.11413	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.114
361	16.30	16.20	3.74942	27.7	0.11441	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.114
362	16.20	16.10	3.75855	27.7	0.11469	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.115
363	16.10	16.00	3.76768	27.6	0.11497	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.115
364	16.00	15.90	3.77681	27.5	0.11525	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.115
365	15.90	15.80	3.78594	27.5	0.11553	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.116
366	15.80	15.70	3.79507	27.4	0.11581	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.116
367	15.70	15.60	3.80420	27.3	0.11608	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.116
368	15.60	15.50	3.81333	27.3	0.11636	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.116
369	15.50	15.40	3.82246	27.2	0.11664	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.117
370	15.40	15.30	3.83159	27.1	0.11692	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.117
371	15.30	15.20	3.84071	27.1	0.11720	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.117
372	15.20	15.10	3.84984	27.0	0.11748	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.117
373	15.10	15.00	3.85897	27.0	0.11776	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.118
374	15.00	14.90	3.86810	26.9	0.11803	0.01	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.118

TOT							0.24					78650.88	70224.00										
AVG						0.11480			1.12	29.26					32.77								
CUM							0.87																

********** 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
351	17.200	7.99	2.29	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00
352	17.100	7.99	2.30	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00
353	17.000	7.99	2.30	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00
354	16.900	7.99	2.31	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00
355	16.800	7.99	2.31	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00
356	16.700	7.99	2.31	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00
357	16.600	7.99	2.32	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00
358	16.500	7.99	2.32	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
359	16.400	7.99	2.33	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
360	16.300	7.99	2.33	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
361	16.200	7.99	2.33	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
362	16.100	7.99	2.34	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
363	16.000	7.99	2.34	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00
364	15.900	7.99	2.35	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	12.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00
365	15.800	7.99	2.35	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00
366	15.700	7.99	2.35	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	13.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00
367	15.600	7.99	2.36	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	13.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00
368	15.500	7.99	2.36	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	13.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00
369	15.400	7.99	2.37	0.06	0.00	0.00	0.00	0.00	0.00	13.83	13.83	13.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00
370	15.300	7.99	2.37	0.07	0.00	0.00	0.00	0.00	0.00	13.83	13.83	13.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00
371	15.200	7.99	2.37	0.07	0.00	0.00	0.00	0.00	0.00	13.83	13.83	13.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00
372	15.100	7.99	2.38	0.07	0.00	0.00	0.00	0.00	0.00	13.83	13.83	13.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00
373	15.000	7.99	2.38	0.07	0.00	0.00	0.00	0.00	0.00	13.83	13.83	13.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00
374	14.900	7.99	2.39	0.07	0.00	0.00	0.00	0.00	0.00	13.83	13.83	13.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00
AVG 20 DEG C RATE			2.06	0.05	0.00	0.00	0.00	0.00	0.00	9.00			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
351	17.200	26.82	0.08	15.42	169.18	1.77	9.15	0.00	9.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.83
352	17.100	26.82	0.08	15.44	169.28	1.78	9.14	0.00	9.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.83
353	17.000	26.82	0.08	15.46	169.37	1.80	9.13	0.00	9.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.83
354	16.900	26.82	0.08	15.47	169.47	1.81	9.12	0.00	9.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
355	16.800	26.82	0.08	15.49	169.56	1.81	9.11	0.00	9.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
356	16.700	26.82	0.08	15.51	169.66	1.82	9.11	0.00	9.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
357	16.600	26.82	0.08	15.53	169.75	1.83	9.10	0.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
358	16.500	26.82	0.08	15.54	169.85	1.84	9.09	0.00	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
359	16.400	26.82	0.08	15.56	169.94	1.85	9.08	0.00	9.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
360	16.300	26.82	0.08	15.58	170.03	1.85	9.08	0.00	9.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
361	16.200	26.82	0.08	15.59	170.12	1.86	9.07	0.00	9.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
362	16.100	26.82	0.08	15.61	170.22	1.86	9.06	0.00	9.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
363	16.000	26.82	0.08	15.63	170.31	1.87	9.05	0.00	9.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
364	15.900	26.82	0.08	15.64	170.40	1.88	9.04	0.00	9.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
365	15.800	26.82	0.08	15.66	170.49	1.88	9.04	0.00	9.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
366	15.700	26.82	0.08	15.68	170.58	1.89	9.03	0.00	9.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
367	15.600	26.82	0.08	15.69	170.67	1.89	9.02	0.00	9.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
368	15.500	26.82	0.08	15.71	170.76	1.89	9.01	0.00	9.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
369	15.400	26.82	0.08	15.73	170.85	1.90	9.01	0.00	9.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
370	15.300	26.82	0.08	15.74	170.94	1.90	9.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
371	15.200	26.82	0.08	15.76	171.02	1.91	8.99	0.00	8.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
372	15.100	26.82	0.08	15.77	171.11	1.91	8.98	0.00	8.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.88
373	15.000	26.82	0.08	15.79	171.20	1.91	8.98	0.00	8.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.88
374	14.900	26.82	0.08	15.81	171.29	1.92	8.97	0.00	8.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.88

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 12 Grand Bayou Calibration Simulation for Beouf System Model

********** 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
375	UPR RCH	3.86810	26.82	0.08	15.81	171.29	1.92	8.97	0.00	8.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88
EACH	INCR	0.00913	0.00	0.00	22.50	208.00	1.32	8.24	0.00			0.00	0.00	0.00	0.00	0.00	2.16	

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
375	14.90	14.80	3.87723	26.8	0.14110	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.141
376	14.80	14.70	3.88636	26.8	0.14143	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.141
377	14.70	14.60	3.89549	26.7	0.14176	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.142
378	14.60	14.50	3.90461	26.6	0.14210	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.142
379	14.50	14.40	3.91374	26.6	0.14243	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.142
380	14.40	14.30	3.92287	26.5	0.14276	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.143

381	14.30	14.20	3.93200	26.4	0.14309	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.143
382	14.20	14.10	3.94113	26.4	0.14342	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.143
383	14.10	14.00	3.95025	26.3	0.14376	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.144
384	14.00	13.90	3.95938	26.3	0.14409	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.144
385	13.90	13.80	3.96851	26.2	0.14442	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.144
386	13.80	13.70	3.97764	26.1	0.14475	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.145
387	13.70	13.60	3.98677	26.1	0.14509	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.145
388	13.60	13.50	3.99590	26.0	0.14542	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.145
389	13.50	13.40	4.00502	26.0	0.14575	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.146
390	13.40	13.30	4.01415	25.9	0.14608	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.146
391	13.30	13.20	4.02328	25.8	0.14641	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.146
392	13.20	13.10	4.03241	25.8	0.14675	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.147
393	13.10	13.00	4.04154	25.7	0.14708	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.147
394	13.00	12.90	4.05066	25.7	0.14741	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.147
395	12.90	12.80	4.05979	25.6	0.14774	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.148
396	12.80	12.70	4.06892	25.6	0.14808	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.148
397	12.70	12.60	4.07805	25.5	0.14841	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.148
398	12.60	12.50	4.08718	25.4	0.14874	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.149
399	12.50	12.40	4.09630	25.4	0.14907	0.01	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.149
TOT						0.20			68696.88	55625.00					
AVG					0.14505		1.24	22.25			27.48				
CUM						1.07									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
375	14.800	7.99	2.47	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00
376	14.700	7.99	2.47	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00
377	14.600	7.99	2.48	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00
378	14.500	7.99	2.48	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00
379	14.400	7.99	2.49	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00
380	14.300	7.99	2.49	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00
381	14.200	7.99	2.49	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00
382	14.100	7.99	2.50	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
383	14.000	7.99	2.50	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
384	13.900	7.99	2.51	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
385	13.800	7.99	2.51	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
386	13.700	7.99	2.52	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
387	13.600	7.99	2.52	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
388	13.500	7.99	2.53	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
389	13.400	7.99	2.53	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
390	13.300	7.99	2.53	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
391	13.200	7.99	2.54	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
392	13.100	7.99	2.54	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
393	13.000	7.99	2.55	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
394	12.900	7.99	2.55	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
395	12.800	7.99	2.56	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
396	12.700	7.99	2.56	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
397	12.600	7.99	2.56	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
398	12.500	7.99	2.57	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
399	12.400	7.99	2.57	0.07	0.00	0.00	0.00	0.00	0.00	14.60	14.60	14.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00

AVG 20 DEG C RATE		2.22	0.05	0.00	0.00	0.00	0.00	0.00	9.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
375	14.800	26.82	0.08	15.82	171.37	1.93	8.96	0.00	8.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.88
376	14.700	26.82	0.08	15.84	171.46	1.94	8.95	0.00	8.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.88
377	14.600	26.82	0.08	15.85	171.54	1.95	8.95	0.00	8.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.88
378	14.500	26.82	0.08	15.87	171.63	1.95	8.94	0.00	8.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.88
379	14.400	26.82	0.08	15.88	171.71	1.96	8.94	0.00	8.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.88
380	14.300	26.82	0.08	15.90	171.80	1.97	8.93	0.00	8.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.88
381	14.200	26.82	0.08	15.91	171.88	1.98	8.92	0.00	8.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
382	14.100	26.82	0.08	15.93	171.97	1.98	8.92	0.00	8.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
383	14.000	26.82	0.08	15.94	172.05	1.99	8.91	0.00	8.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
384	13.900	26.82	0.08	15.96	172.13	2.00	8.90	0.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
385	13.800	26.82	0.08	15.97	172.22	2.00	8.90	0.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
386	13.700	26.82	0.08	15.99	172.30	2.01	8.89	0.00	8.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
387	13.600	26.82	0.08	16.00	172.38	2.02	8.88	0.00	8.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
388	13.500	26.82	0.08	16.02	172.46	2.02	8.88	0.00	8.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
389	13.400	26.82	0.08	16.03	172.54	2.03	8.87	0.00	8.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
390	13.300	26.82	0.08	16.05	172.62	2.04	8.86	0.00	8.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
391	13.200	26.82	0.08	16.06	172.70	2.04	8.86	0.00	8.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
392	13.100	26.82	0.08	16.08	172.78	2.05	8.85	0.00	8.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
393	13.000	26.82	0.08	16.09	172.86	2.06	8.85	0.00	8.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.87
394	12.900	26.82	0.08	16.11	172.94	2.06	8.84	0.00	8.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
395	12.800	26.82	0.08	16.12	173.02	2.07	8.83	0.00	8.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
396	12.700	26.82	0.08	16.14	173.10	2.08	8.83	0.00	8.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
397	12.600	26.82	0.08	16.15	173.18	2.08	8.82	0.00	8.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
398	12.500	26.82	0.08	16.16	173.25	2.09	8.82	0.00	8.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
399	12.400	26.82	0.08	16.18	173.33	2.10	8.81	0.00	8.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86

********** 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
400	UPR RCH	4.09630	26.82	0.08	16.18	173.33	2.10	8.81	0.00	8.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.86
EACH	INCR	0.00913	0.00	0.00	22.50	208.00	1.32	8.24	0.00			0.00	0.00	0.00	0.00	0.00	2.16	

********** 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
400	12.40	12.30	4.10543	25.3	0.10436	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.104
401	12.30	12.20	4.11456	25.3	0.10459	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.105
402	12.20	12.10	4.12368	25.2	0.10482	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.105
403	12.10	12.00	4.13281	25.2	0.10505	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.105
404	12.00	11.90	4.14194	25.1	0.10529	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.105
405	11.90	11.80	4.15106	25.1	0.10552	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.106
406	11.80	11.70	4.16019	25.0	0.10575	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.106
407	11.70	11.60	4.16931	24.9	0.10598	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.106
408	11.60	11.50	4.17844	24.9	0.10621	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.106
409	11.50	11.40	4.18757	24.8	0.10645	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.106
410	11.40	11.30	4.19669	24.8	0.10668	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.107
411	11.30	11.20	4.20582	24.7	0.10691	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.107
412	11.20	11.10	4.21494	24.7	0.10714	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.107
413	11.10	11.00	4.22407	24.6	0.10737	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.107
414	11.00	10.90	4.23320	24.6	0.10761	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.108
415	10.90	10.80	4.24232	24.5	0.10784	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.108
416	10.80	10.70	4.25145	24.5	0.10807	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.108
417	10.70	10.60	4.26058	24.4	0.10830	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.108
418	10.60	10.50	4.26970	24.4	0.10853	0.01	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.109
TOT						0.21			74746.00	53390.00					
AVG					0.10643		1.40	28.10			39.34				
CUM						1.27									

********** 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
400	12.300	7.98	1.75	0.07	0.00	0.00	0.00	0.00	0.00	10.03	10.03	10.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00
401	12.200	7.97	1.76	0.07	0.00	0.00	0.00	0.00	0.00	10.06	10.06	10.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00
402	12.100	7.96	1.76	0.07	0.00	0.00	0.00	0.00	0.00	10.10	10.10	10.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00
403	12.000	7.96	1.77	0.07	0.00	0.00	0.00	0.00	0.00	10.14	10.14	10.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00
404	11.900	7.95	1.77	0.07	0.00	0.00	0.00	0.00	0.00	10.18	10.18	10.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00
405	11.800	7.94	1.78	0.07	0.00	0.00	0.00	0.00	0.00	10.22	10.22	10.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00

406	11.700	7.93	1.78	0.07	0.00	0.00	0.00	0.00	0.00	10.26	10.26	10.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00
407	11.600	7.92	1.79	0.07	0.00	0.00	0.00	0.00	0.00	10.30	10.30	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00
408	11.500	7.91	1.79	0.07	0.00	0.00	0.00	0.00	0.00	10.34	10.34	10.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00
409	11.400	7.90	1.79	0.07	0.00	0.00	0.00	0.00	0.00	10.38	10.38	10.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00
410	11.300	7.89	1.80	0.07	0.00	0.00	0.00	0.00	0.00	10.42	10.42	10.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00
411	11.200	7.89	1.80	0.07	0.00	0.00	0.00	0.00	0.00	10.46	10.46	10.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00
412	11.100	7.88	1.81	0.07	0.00	0.00	0.00	0.00	0.00	10.50	10.50	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00
413	11.000	7.87	1.81	0.07	0.00	0.00	0.00	0.00	0.00	10.54	10.54	10.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00
414	10.900	7.86	1.82	0.07	0.00	0.00	0.00	0.00	0.00	10.58	10.58	10.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00
415	10.800	7.85	1.82	0.07	0.00	0.00	0.00	0.00	0.00	10.62	10.62	10.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00
416	10.700	7.84	1.83	0.07	0.00	0.00	0.00	0.00	0.00	10.66	10.66	10.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00
417	10.600	7.84	1.83	0.07	0.00	0.00	0.00	0.00	0.00	10.70	10.70	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
418	10.500	7.83	1.84	0.07	0.00	0.00	0.00	0.00	0.00	10.74	10.74	10.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
AVG 20 DEG C RATE			1.56	0.05	0.00	0.00	0.00	0.00	0.00	6.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
400	12.300	26.88	0.08	16.19	173.41	2.10	8.80	0.00	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
401	12.200	26.94	0.08	16.21	173.49	2.11	8.79	0.00	8.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
402	12.100	27.00	0.08	16.22	173.56	2.12	8.79	0.00	8.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.86
403	12.000	27.06	0.08	16.23	173.64	2.13	8.78	0.00	8.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
404	11.900	27.13	0.08	16.25	173.71	2.13	8.77	0.00	8.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
405	11.800	27.19	0.08	16.26	173.79	2.14	8.76	0.00	8.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
406	11.700	27.25	0.08	16.28	173.86	2.14	8.75	0.00	8.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
407	11.600	27.31	0.08	16.29	173.94	2.15	8.75	0.00	8.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
408	11.500	27.37	0.08	16.30	174.01	2.16	8.74	0.00	8.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
409	11.400	27.43	0.08	16.32	174.09	2.16	8.73	0.00	8.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
410	11.300	27.49	0.08	16.33	174.16	2.16	8.72	0.00	8.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.84
411	11.200	27.55	0.08	16.34	174.23	2.17	8.72	0.00	8.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.83
412	11.100	27.61	0.08	16.36	174.31	2.17	8.71	0.00	8.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.83
413	11.000	27.67	0.08	16.37	174.38	2.17	8.70	0.00	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.83
414	10.900	27.74	0.08	16.38	174.45	2.18	8.69	0.00	8.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.83
415	10.800	27.80	0.08	16.40	174.52	2.18	8.69	0.00	8.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.82
416	10.700	27.86	0.08	16.41	174.60	2.18	8.68	0.00	8.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.82
417	10.600	27.92	0.08	16.42	174.67	2.18	8.67	0.00	8.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.82
418	10.500	27.98	0.08	16.43	174.74	2.19	8.66	0.00	8.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.82

********** 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
419	UPR RCH	4.26970	27.98	0.08	16.43	174.74	2.19	8.66	0.00	8.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.82
EACH	INCR	0.00913	0.00	0.00	22.50	208.00	1.32	8.24	0.00			0.00	0.00	0.00	0.00	0.00	2.16	

********** 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
419	10.50	10.40	4.27883	24.3	0.07356	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.074
420	10.40	10.30	4.28795	24.3	0.07371	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.074
421	10.30	10.20	4.29708	24.2	0.07387	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.074
422	10.20	10.10	4.30621	24.2	0.07403	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.074
423	10.10	10.00	4.31533	24.1	0.07419	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.074
424	10.00	9.90	4.32446	24.0	0.07434	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.074
425	9.90	9.80	4.33359	24.0	0.07450	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.074
426	9.80	9.70	4.34271	23.9	0.07466	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.075
427	9.70	9.60	4.35184	23.9	0.07481	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.075
428	9.60	9.50	4.36096	23.8	0.07497	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.075
429	9.50	9.40	4.37009	23.8	0.07513	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.075
430	9.40	9.30	4.37922	23.7	0.07528	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.075
431	9.30	9.20	4.38834	23.7	0.07544	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.075
432	9.20	9.10	4.39747	23.6	0.07560	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.076
433	9.10	9.00	4.40659	23.6	0.07575	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.076
434	9.00	8.90	4.41572	23.6	0.07591	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.076
435	8.90	8.80	4.42485	23.5	0.07607	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.076
436	8.80	8.70	4.43397	23.5	0.07623	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.076
437	8.70	8.60	4.44310	23.4	0.07638	0.02	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.076
TOT						0.29			110522.07	69730.00					
AVG					0.07496		1.58	36.70			58.17				
CUM						1.57									

********** 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
419	10.400	7.83	1.26	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
420	10.300	7.83	1.26	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
421	10.200	7.83	1.26	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
422	10.100	7.83	1.26	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
423	10.000	7.83	1.26	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
424	9.900	7.83	1.26	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00

425	9.800	7.83	1.27	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
426	9.700	7.83	1.27	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
427	9.600	7.83	1.27	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
428	9.500	7.83	1.27	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
429	9.400	7.83	1.27	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
430	9.300	7.83	1.27	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
431	9.200	7.83	1.28	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
432	9.100	7.83	1.28	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
433	9.000	7.83	1.28	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
434	8.900	7.83	1.28	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
435	8.800	7.83	1.28	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
436	8.700	7.83	1.28	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
437	8.600	7.83	1.29	0.07	0.00	0.00	0.00	0.00	0.00	4.96	4.96	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
AVG 20 DEG C RATE			1.09	0.05	0.00	0.00	0.00	0.00	0.00	3.00			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
419	10.400	27.98	0.08	16.45	174.81	2.21	8.65	0.00	8.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.81
420	10.300	27.98	0.08	16.46	174.88	2.23	8.64	0.00	8.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.80
421	10.200	27.98	0.08	16.47	174.95	2.25	8.63	0.00	8.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.79
422	10.100	27.98	0.08	16.49	175.02	2.28	8.62	0.00	8.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.79
423	10.000	27.98	0.08	16.50	175.09	2.30	8.61	0.00	8.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.78
424	9.900	27.98	0.08	16.51	175.16	2.32	8.60	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.77
425	9.800	27.98	0.08	16.52	175.23	2.34	8.59	0.00	8.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.77
426	9.700	27.98	0.08	16.54	175.30	2.36	8.58	0.00	8.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.76
427	9.600	27.98	0.08	16.55	175.37	2.38	8.57	0.00	8.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.75
428	9.500	27.98	0.08	16.56	175.44	2.40	8.56	0.00	8.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.75
429	9.400	27.98	0.08	16.57	175.50	2.42	8.55	0.00	8.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.74
430	9.300	27.98	0.08	16.59	175.57	2.44	8.54	0.00	8.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.73
431	9.200	27.98	0.08	16.60	175.64	2.46	8.53	0.00	8.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.73
432	9.100	27.98	0.08	16.61	175.71	2.48	8.52	0.00	8.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.72
433	9.000	27.98	0.08	16.62	175.77	2.50	8.51	0.00	8.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.72
434	8.900	27.98	0.08	16.64	175.84	2.52	8.50	0.00	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.71
435	8.800	27.98	0.08	16.65	175.91	2.54	8.49	0.00	8.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.70
436	8.700	27.98	0.08	16.66	175.97	2.55	8.48	0.00	8.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.70
437	8.600	27.98	0.08	16.67	176.04	2.57	8.47	0.00	8.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.69

********** 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
438	UPR RCH	4.44310	27.98	0.08	16.67	176.04	2.57	8.47	0.00	8.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.69
EACH	INCR	0.00913	0.00	0.00	22.50	208.00	1.32	8.24	0.00			0.00	0.00	0.00	0.00	0.00	2.16	

********** 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
438	8.60	8.50	4.45223	23.4	0.08222	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.082
439	8.50	8.40	4.46136	23.3	0.08238	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.082
440	8.40	8.30	4.47049	23.3	0.08255	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.083
441	8.30	8.20	4.47962	23.2	0.08272	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.083
442	8.20	8.10	4.48875	23.2	0.08289	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.083
443	8.10	8.00	4.49788	23.1	0.08306	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.083
444	8.00	7.90	4.50701	23.1	0.08323	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.083
445	7.90	7.80	4.51614	23.0	0.08340	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.083
446	7.80	7.70	4.52527	23.0	0.08356	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.084
447	7.70	7.60	4.53440	22.9	0.08373	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.084
448	7.60	7.50	4.54353	22.9	0.08390	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.084
449	7.50	7.40	4.55266	22.8	0.08407	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.084
450	7.40	7.30	4.56179	22.8	0.08424	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.084
451	7.30	7.20	4.57092	22.8	0.08441	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.084
452	7.20	7.10	4.58005	22.7	0.08458	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.085
453	7.10	7.00	4.58918	22.7	0.08474	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.085
454	7.00	6.90	4.59831	22.6	0.08491	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.085
455	6.90	6.80	4.60744	22.6	0.08508	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.085
456	6.80	6.70	4.61657	22.5	0.08525	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.085
457	6.70	6.60	4.62570	22.5	0.08542	0.01	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.085
TOT						0.28			108306.83	65839.99					
AVG					0.08381		1.65	32.92			54.15				
CUM						1.84									

********** 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
438	8.500	7.83	1.30	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
439	8.400	7.83	1.30	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
440	8.300	7.83	1.30	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
441	8.200	7.83	1.30	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
442	8.100	7.83	1.30	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00

443	8.000	7.83	1.31	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
444	7.900	7.83	1.31	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
445	7.800	7.83	1.31	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
446	7.700	7.83	1.31	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
447	7.600	7.83	1.31	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
448	7.500	7.83	1.31	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
449	7.400	7.83	1.32	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
450	7.300	7.83	1.32	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
451	7.200	7.83	1.32	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
452	7.100	7.83	1.32	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
453	7.000	7.83	1.32	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
454	6.900	7.83	1.33	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
455	6.800	7.83	1.33	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
456	6.700	7.83	1.33	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
457	6.600	7.83	1.33	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
AVG 20 DEG C RATE			1.13	0.05	0.00	0.00	0.00	0.00	0.00	4.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
438	8.500	27.98	0.08	16.68	176.10	2.57	8.46	0.00	8.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.69
439	8.400	27.98	0.08	16.70	176.17	2.57	8.45	0.00	8.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.68
440	8.300	27.98	0.08	16.71	176.23	2.57	8.44	0.00	8.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.68
441	8.200	27.98	0.08	16.72	176.30	2.56	8.43	0.00	8.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.67
442	8.100	27.98	0.08	16.73	176.36	2.56	8.42	0.00	8.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.67
443	8.000	27.98	0.08	16.74	176.43	2.56	8.41	0.00	8.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.66
444	7.900	27.98	0.08	16.75	176.49	2.56	8.41	0.00	8.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.66
445	7.800	27.98	0.08	16.77	176.55	2.56	8.40	0.00	8.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.65
446	7.700	27.98	0.08	16.78	176.62	2.56	8.39	0.00	8.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.65
447	7.600	27.98	0.08	16.79	176.68	2.56	8.38	0.00	8.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.65
448	7.500	27.98	0.08	16.80	176.74	2.56	8.37	0.00	8.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.64
449	7.400	27.98	0.08	16.81	176.81	2.56	8.36	0.00	8.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.64
450	7.300	27.98	0.08	16.82	176.87	2.56	8.35	0.00	8.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.63
451	7.200	27.98	0.08	16.83	176.93	2.56	8.35	0.00	8.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.63
452	7.100	27.98	0.08	16.85	176.99	2.56	8.34	0.00	8.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.62
453	7.000	27.98	0.08	16.86	177.05	2.56	8.33	0.00	8.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.62
454	6.900	27.98	0.08	16.87	177.12	2.56	8.32	0.00	8.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.62
455	6.800	27.98	0.08	16.88	177.18	2.56	8.31	0.00	8.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.61
456	6.700	27.98	0.08	16.89	177.24	2.56	8.30	0.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.61
457	6.600	27.98	0.08	16.90	177.30	2.57	8.30	0.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60

********** 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
458	UPR RCH	4.62570	27.98	0.08	16.90	177.30	2.57	8.30	0.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60
EACH	INCR	0.00913	0.00	0.00	22.50	208.00	1.32	8.24	0.00			0.00	0.00	0.00	0.00	0.00	2.16	

********** 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
458	6.60	6.50	4.63483	22.4	0.08626	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.086
459	6.50	6.40	4.64395	22.4	0.08643	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.086
460	6.40	6.30	4.65308	22.4	0.08660	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.087
461	6.30	6.20	4.66221	22.3	0.08677	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.087
462	6.20	6.10	4.67134	22.3	0.08694	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.087
463	6.10	6.00	4.68047	22.2	0.08711	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.087
464	6.00	5.90	4.68959	22.2	0.08728	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.087
465	5.90	5.80	4.69872	22.1	0.08745	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.087
466	5.80	5.70	4.70785	22.1	0.08762	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.088
467	5.70	5.60	4.71698	22.0	0.08779	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.088
468	5.60	5.50	4.72610	22.0	0.08796	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.088
469	5.50	5.40	4.73523	22.0	0.08813	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.088
470	5.40	5.30	4.74436	21.9	0.08830	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.088
471	5.30	5.20	4.75349	21.9	0.08847	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.088
472	5.20	5.10	4.76261	21.8	0.08864	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.089
473	5.10	5.00	4.77174	21.8	0.08881	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.089
474	5.00	4.90	4.78087	21.8	0.08898	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.089
475	4.90	4.80	4.79000	21.7	0.08915	0.01	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.089
TOT						0.24			96717.61	63630.00					
AVG					0.08769		1.52	35.35			53.73				
CUM						2.08									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
458	6.500	7.83	1.45	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
459	6.400	7.83	1.45	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
460	6.300	7.83	1.45	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
461	6.200	7.83	1.45	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
462	6.100	7.83	1.46	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
463	6.000	7.83	1.46	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
464	5.900	7.83	1.46	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00

465	5.800	7.83	1.46	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
466	5.700	7.83	1.46	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
467	5.600	7.83	1.47	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
468	5.500	7.83	1.47	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
469	5.400	7.83	1.47	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
470	5.300	7.83	1.47	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
471	5.200	7.83	1.47	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
472	5.100	7.83	1.47	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
473	5.000	7.83	1.48	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
474	4.900	7.83	1.48	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
475	4.800	7.83	1.48	0.07	0.00	0.00	0.00	0.00	0.00	7.44	7.44	7.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
AVG 20 DEG C RATE			1.26	0.05	0.00	0.00	0.00	0.00	0.00	4.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
458	6.500	27.98	0.08	16.91	177.36	2.57	8.29	0.00	8.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
459	6.400	27.98	0.08	16.92	177.42	2.57	8.28	0.00	8.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
460	6.300	27.98	0.08	16.93	177.48	2.58	8.27	0.00	8.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
461	6.200	27.98	0.08	16.95	177.54	2.58	8.26	0.00	8.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
462	6.100	27.98	0.08	16.96	177.60	2.59	8.26	0.00	8.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
463	6.000	27.98	0.08	16.97	177.66	2.59	8.25	0.00	8.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
464	5.900	27.98	0.08	16.98	177.72	2.60	8.24	0.00	8.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
465	5.800	27.98	0.08	16.99	177.78	2.60	8.23	0.00	8.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
466	5.700	27.98	0.08	17.00	177.84	2.61	8.22	0.00	8.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
467	5.600	27.98	0.08	17.01	177.89	2.61	8.22	0.00	8.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
468	5.500	27.98	0.08	17.02	177.95	2.62	8.21	0.00	8.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
469	5.400	27.98	0.08	17.03	178.01	2.62	8.20	0.00	8.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
470	5.300	27.98	0.08	17.04	178.07	2.63	8.19	0.00	8.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
471	5.200	27.98	0.08	17.05	178.12	2.63	8.19	0.00	8.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
472	5.100	27.98	0.08	17.06	178.18	2.64	8.18	0.00	8.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
473	5.000	27.98	0.08	17.07	178.24	2.64	8.17	0.00	8.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
474	4.900	27.98	0.08	17.08	178.30	2.65	8.16	0.00	8.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
475	4.800	27.98	0.08	17.09	178.35	2.65	8.16	0.00	8.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60

********** 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
476	UPR RCH	4.79000	27.98	0.08	17.09	178.35	2.65	8.16	0.00	8.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60

********** 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
476	4.80	4.70	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
477	4.70	4.60	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
478	4.60	4.50	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
479	4.50	4.40	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
480	4.40	4.30	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
481	4.30	4.20	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
482	4.20	4.10	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
483	4.10	4.00	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
484	4.00	3.90	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
485	3.90	3.80	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
486	3.80	3.70	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
487	3.70	3.60	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
488	3.60	3.50	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
489	3.50	3.40	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
490	3.40	3.30	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
491	3.30	3.20	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
492	3.20	3.10	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
493	3.10	3.00	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
494	3.00	2.90	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
495	2.90	2.80	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
496	2.80	2.70	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
497	2.70	2.60	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
498	2.60	2.50	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
499	2.50	2.40	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
500	2.40	2.30	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
501	2.30	2.20	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
502	2.20	2.10	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
503	2.10	2.00	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
504	2.00	1.90	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
505	1.90	1.80	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
506	1.80	1.70	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
507	1.70	1.60	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
508	1.60	1.50	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
509	1.50	1.40	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
510	1.40	1.30	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
511	1.30	1.20	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
512	1.20	1.10	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
513	1.10	1.00	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068

514	1.00	0.90	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
515	0.90	0.80	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
516	0.80	0.70	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
517	0.70	0.60	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
518	0.60	0.50	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
519	0.50	0.40	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
520	0.40	0.30	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
521	0.30	0.20	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
522	0.20	0.10	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
523	0.10	0.00	4.79000	21.7	0.06822	0.02	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.068
TOT						0.81			337040.84	165215.98					
AVG					0.06822		2.04	34.42			70.22				
CUM						2.90									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
476	4.700	7.82	0.93	0.07	0.00	0.00	0.00	0.00	0.00	2.48	2.48	2.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
477	4.600	7.82	0.93	0.07	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
478	4.500	7.82	0.93	0.07	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
479	4.400	7.82	0.93	0.07	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
480	4.300	7.81	0.93	0.07	0.00	0.00	0.00	0.00	0.00	2.49	2.49	2.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
481	4.200	7.81	0.93	0.07	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
482	4.100	7.81	0.93	0.07	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
483	4.000	7.81	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
484	3.900	7.80	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
485	3.800	7.80	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.51	2.51	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
486	3.700	7.80	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.51	2.51	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
487	3.600	7.80	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.51	2.51	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
488	3.500	7.79	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.52	2.52	2.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
489	3.400	7.79	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.52	2.52	2.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
490	3.300	7.79	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.52	2.52	2.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
491	3.200	7.79	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
492	3.100	7.78	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
493	3.000	7.78	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
494	2.900	7.78	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.53	2.53	2.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
495	2.800	7.78	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.54	2.54	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
496	2.700	7.77	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.54	2.54	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
497	2.600	7.77	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.54	2.54	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
498	2.500	7.77	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00
499	2.400	7.77	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00
500	2.300	7.76	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00
501	2.200	7.76	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.55	2.55	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00
502	2.100	7.76	0.94	0.07	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	0.00	0.00	0.00	0.64	0.00
503	2.000	7.76	0.94	0.07	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	0.00	0.00	0.00	0.64	0.00
504	1.900	7.75	0.94	0.07	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	0.00	0.00	0.00	0.64	0.00
505	1.800	7.75	0.94	0.07	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	0.00	0.00	0.00	0.64	0.00
506	1.700	7.75	0.94	0.07	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	0.00	0.00	0.00	0.64	0.00
507	1.600	7.75	0.94	0.07	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	0.00	0.00	0.00	0.64	0.00
508	1.500	7.74	0.94	0.07	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	0.00	0.00	0.00	0.64	0.00
509	1.400	7.74	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.58	2.58	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00

510	1.300	7.74	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.58	2.58	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00
511	1.200	7.74	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.58	2.58	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
512	1.100	7.73	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
513	1.000	7.73	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
514	0.900	7.73	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.59	2.59	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
515	0.800	7.73	0.94	0.07	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
516	0.700	7.72	0.95	0.07	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
517	0.600	7.72	0.95	0.07	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
518	0.500	7.72	0.95	0.07	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
519	0.400	7.72	0.95	0.07	0.00	0.00	0.00	0.00	0.00	2.61	2.61	2.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
520	0.300	7.71	0.95	0.07	0.00	0.00	0.00	0.00	0.00	2.61	2.61	2.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
521	0.200	7.71	0.95	0.07	0.00	0.00	0.00	0.00	0.00	2.61	2.61	2.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
522	0.100	7.71	0.95	0.08	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00
523	0.000	7.71	0.95	0.08	0.00	0.00	0.00	0.00	0.00	2.62	2.62	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.80	0.05	0.00	0.00	0.00	0.00	0.00	1.50			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
476	4.700	28.00	0.08	17.09	178.35	2.67	8.15	0.00	8.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
477	4.600	28.02	0.08	17.09	178.35	2.70	8.14	0.00	8.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
478	4.500	28.03	0.08	17.09	178.35	2.72	8.13	0.00	8.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
479	4.400	28.05	0.08	17.09	178.35	2.74	8.12	0.00	8.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
480	4.300	28.07	0.08	17.09	178.35	2.76	8.11	0.00	8.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.60
481	4.200	28.09	0.08	17.09	178.35	2.79	8.10	0.00	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.59
482	4.100	28.11	0.08	17.09	178.35	2.81	8.09	0.00	8.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.59
483	4.000	28.12	0.08	17.09	178.35	2.83	8.08	0.00	8.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.59
484	3.900	28.14	0.08	17.09	178.35	2.85	8.07	0.00	8.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.59
485	3.800	28.16	0.08	17.09	178.35	2.87	8.06	0.00	8.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.59
486	3.700	28.18	0.08	17.09	178.35	2.89	8.05	0.00	8.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.59
487	3.600	28.20	0.09	17.09	178.35	2.91	8.04	0.00	8.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.59
488	3.500	28.22	0.09	17.09	178.35	2.93	8.03	0.00	8.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.59
489	3.400	28.23	0.09	17.09	178.35	2.94	8.02	0.00	8.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.59
490	3.300	28.25	0.09	17.09	178.35	2.96	8.01	0.00	8.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.58
491	3.200	28.27	0.09	17.09	178.35	2.98	8.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.58
492	3.100	28.29	0.09	17.09	178.35	3.00	7.99	0.00	7.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.58
493	3.000	28.31	0.09	17.09	178.35	3.02	7.98	0.00	7.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.58
494	2.900	28.32	0.09	17.09	178.35	3.03	7.97	0.00	7.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.58
495	2.800	28.34	0.09	17.09	178.35	3.05	7.96	0.00	7.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.58
496	2.700	28.36	0.09	17.09	178.35	3.07	7.95	0.00	7.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.58
497	2.600	28.38	0.09	17.09	178.35	3.08	7.94	0.00	7.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.58
498	2.500	28.40	0.09	17.09	178.35	3.10	7.93	0.00	7.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.57
499	2.400	28.42	0.09	17.09	178.35	3.11	7.92	0.00	7.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.57
500	2.300	28.43	0.09	17.09	178.35	3.13	7.91	0.00	7.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.57
501	2.200	28.45	0.09	17.09	178.35	3.14	7.90	0.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.57
502	2.100	28.47	0.09	17.09	178.35	3.16	7.89	0.00	7.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.57
503	2.000	28.49	0.09	17.09	178.35	3.17	7.88	0.00	7.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.57
504	1.900	28.51	0.09	17.09	178.35	3.19	7.87	0.00	7.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.57
505	1.800	28.52	0.09	17.09	178.35	3.20	7.86	0.00	7.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.56
506	1.700	28.54	0.09	17.09	178.35	3.21	7.85	0.00	7.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.56

507	1.600	28.56	0.09	17.09	178.35	3.23	7.84	0.00	7.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.56
508	1.500	28.58	0.09	17.09	178.35	3.24	7.83	0.00	7.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.56
509	1.400	28.60	0.09	17.09	178.35	3.25	7.82	0.00	7.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.56
510	1.300	28.61	0.09	17.09	178.35	3.26	7.81	0.00	7.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.56
511	1.200	28.63	0.09	17.09	178.35	3.28	7.80	0.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.56
512	1.100	28.65	0.10	17.09	178.35	3.29	7.79	0.00	7.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.55
513	1.000	28.67	0.10	17.09	178.35	3.30	7.78	0.00	7.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.55
514	0.900	28.69	0.10	17.09	178.35	3.31	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.55
515	0.800	28.70	0.10	17.09	178.35	3.32	7.76	0.00	7.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.55
516	0.700	28.72	0.10	17.09	178.35	3.33	7.75	0.00	7.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.55
517	0.600	28.74	0.10	17.09	178.35	3.34	7.74	0.00	7.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.55
518	0.500	28.76	0.10	17.09	178.35	3.35	7.73	0.00	7.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.54
519	0.400	28.78	0.10	17.09	178.35	3.36	7.72	0.00	7.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.54
520	0.300	28.80	0.10	17.09	178.35	3.37	7.71	0.00	7.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.54
521	0.200	28.81	0.10	17.09	178.35	3.38	7.70	0.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.54
522	0.100	28.83	0.10	17.09	178.35	3.39	7.69	0.00	7.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.54
523	0.000	28.85	0.10	17.09	178.35	3.40	7.68	0.00	7.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.54

STREAM SUMMARY
Grand Bayou

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Calibration Simulation for Beouf System Model

TRAVEL TIME	=	2.90	DAYS		
MAXIMUM EFFLUENT	=	30.24	PERCENT		
FLOW	=	2.18913	TO	4.79000	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.04854	TO	0.14907	m/s
DEPTH	=	1.00	TO	2.04	m
WIDTH	=	19.50	TO	36.70	m
BOD DECAY	=	0.06	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	2.48	TO	14.60	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.93	TO	2.76	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	=	26.82	TO	28.85	deg C
DISSOLVED OXYGEN	=	1.76	TO	3.40	mg/L

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Calibration Simulation for Beouf System Model

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	2.208	468.7	1598.5	0.0	0.0	0.0	0.0	0.0	0.0	473.2
INCREMENTAL INFLOW	2.059	322.6	1395.9	0.0	0.0	0.0	0.0	0.0	0.0	342.4
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	4.385	565.9	3160.2	0.0	0.0	0.0	0.0	0.0	0.0	704.8
WITHDRAWLS	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OUTFLOW THRU LOWER BNDRY	-8.652	-2355.5	-7684.6	0.0	0.0	0.0	0.0	0.0	0.0	-1881.5
DISPERSION THRU LOWER BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	12715.0	0.0	0.0					5802.0
NATURAL REAERATION		30455.7								
DAM REAERATION		0.0								
BACKGROUND SOD		-12831.7								
BOD#1 DECAY		-11185.2	-11185.2							
BOD#1 SETTLING		0.0	0.0							
ANAEROBIC BOD#1 DECAY			0.0							
BOD#2 DECAY		0.0		0.0						
BOD#2 SETTLING		0.0		0.0						
ANAEROBIC BOD#2 DECAY				0.0						
ORG-N DECAY		0.0			0.0	0.0				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		0.0				0.0	0.0			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		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		-5440.9								-5440.9
NCM SETTLING		0.0								0.0
TOTAL INPUTS	8.652	31812.9	18869.7	0.0	0.0	0.0	0.0	0.0	0.0	7322.4
TOTAL OUTPUTS	-8.652	-31813.3	-18869.8	0.0	0.0	0.0	0.0	0.0	0.0	-7322.4
NET CONVERGENCE ERROR	0.000	-0.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1

.....EXECUTION COMPLETED

APPENDIX L

90th Percentile Temperature Calculations

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

summer 90th percentile 29.00
winter 90th percentile 20.88 interpolated

DATE	WATER TEMP (C)	Season	Percentile	DATE	WATER TEMP (C)	Season	Percentile
10/15/80	17.0	summer	0.24%	1/10/79	4.0	winter	0.25%
10/13/87	18.1	summer	0.71%	12/13/78	4.0	winter	0.76%
10/10/88	18.8	summer	1.19%	1/9/96	4.5	winter	1.26%
10/1/75	19.0	summer	1.67%	1/11/82	6.0	winter	1.77%
10/1/74	19.0	summer	2.14%	1/11/88	6.2	winter	2.27%
5/16/79	20.0	summer	2.62%	1/12/81	7.0	winter	2.78%
5/1/73	20.0	summer	3.10%	1/4/77	7.0	winter	3.28%
10/1/72	20.0	summer	3.57%	12/1/74	7.0	winter	3.79%
10/1/71	20.0	summer	4.05%	2/1/61	7.0	winter	4.29%
5/1/69	20.0	summer	4.52%	1/14/85	7.2	winter	4.80%
10/1/67	20.0	summer	5.00%	2/8/88	7.3	winter	5.30%
5/1/59	20.0	summer	5.48%	1/4/78	8.0	winter	5.81%
5/14/80	20.5	summer	5.95%	12/1/73	8.0	winter	6.31%
10/9/89	20.7	summer	6.43%	1/1/64	8.0	winter	6.82%
10/10/79	21.0	summer	6.90%	1/1/62	8.0	winter	7.32%
8/15/79	21.0	summer	7.38%	1/12/87	8.5	winter	7.83%
5/1/74	21.0	summer	7.86%	2/13/80	8.5	winter	8.33%
10/1/70	21.0	summer	8.33%	1/1/63	9.0	winter	8.84%
10/1/66	21.0	summer	8.81%	1/13/86	9.4	winter	9.34%
10/1/63	21.0	summer	9.29%	1/11/94	10.0	winter	9.85%
5/1/61	21.0	summer	9.76%	11/19/80	10.0	winter	10.35%
5/1/60	21.0	summer	10.24%	3/5/75	10.0	winter	10.86%
10/1/58	21.0	summer	10.71%	2/1/71	10.0	winter	11.36%
10/10/77	21.2	summer	11.19%	1/1/71	10.0	winter	11.87%
5/13/97	21.4	summer	11.67%	3/1/68	10.0	winter	12.37%
10/16/90	21.5	summer	12.14%	1/1/68	10.0	winter	12.88%
6/10/80	21.5	summer	12.62%	12/9/77	10.1	winter	13.38%
5/11/93	21.7	summer	13.10%	12/13/82	10.4	winter	13.89%
10/8/84	21.7	summer	13.57%	2/7/83	10.5	winter	14.39%
5/1/68	22.0	summer	14.05%	12/11/90	10.8	winter	14.90%
6/1/66	22.0	summer	14.52%	1/15/91	11.0	winter	15.40%
10/1/61	22.0	summer	15.00%	12/12/88	11.0	winter	15.91%
5/10/88	22.3	summer	15.48%	2/9/77	11.0	winter	16.41%
5/9/83	22.4	summer	15.95%	1/8/76	11.0	winter	16.92%
5/11/87	22.5	summer	16.43%	3/1/69	11.0	winter	17.42%
9/15/92	22.7	summer	16.90%	2/1/63	11.0	winter	17.93%
5/10/82	23.0	summer	17.38%	1/1/61	11.0	winter	18.43%
10/4/76	23.0	summer	17.86%	12/12/89	11.2	winter	18.94%
5/8/75	23.0	summer	18.33%	3/12/96	11.4	winter	19.44%
9/1/74	23.0	summer	18.81%	11/18/97	11.6	winter	19.95%

DATE	WATER TEMP (C)	Season	Percentile
10/1/68	23.0	summer	19.29%
5/1/65	23.0	summer	19.76%
5/1/64	23.0	summer	20.24%
10/1/62	23.0	summer	20.71%
5/1/62	23.0	summer	21.19%
10/1/60	23.0	summer	21.67%
5/12/92	23.1	summer	22.14%
5/15/90	23.8	summer	22.62%
10/13/86	23.8	summer	23.10%
10/14/85	24.0	summer	23.57%
5/11/81	24.0	summer	24.05%
6/13/79	24.0	summer	24.52%
10/11/78	24.0	summer	25.00%
5/9/77	24.0	summer	25.48%
9/1/75	24.0	summer	25.95%
8/11/75	24.0	summer	26.43%
8/1/74	24.0	summer	26.90%
9/1/73	24.0	summer	27.38%
5/1/71	24.0	summer	27.86%
6/1/69	24.0	summer	28.33%
9/1/67	24.0	summer	28.81%
5/1/67	24.0	summer	29.29%
5/1/66	24.0	summer	29.76%
5/1/63	24.0	summer	30.24%
7/1/62	24.0	summer	30.71%
7/1/61	24.0	summer	31.19%
6/1/59	24.0	summer	31.67%
5/14/91	24.1	summer	32.14%
5/12/98	24.3	summer	32.62%
5/14/96	24.4	summer	33.10%
5/10/94	24.4	summer	33.57%
10/10/83	24.4	summer	34.05%
9/12/88	24.5	summer	34.52%
6/7/76	24.6	summer	35.00%
6/8/87	24.9	summer	35.48%
7/12/94	25.0	summer	35.95%
5/9/89	25.0	summer	36.43%
9/16/80	25.0	summer	36.90%
7/11/79	25.0	summer	37.38%
8/16/78	25.0	summer	37.86%
5/10/78	25.0	summer	38.33%
6/9/75	25.0	summer	38.81%
7/1/74	25.0	summer	39.29%
10/1/73	25.0	summer	39.76%
8/1/73	25.0	summer	40.24%
5/1/72	25.0	summer	40.71%

DATE	WATER TEMP (C)	Season	Percentile
2/8/82	12.0	winter	20.45%
2/9/81	12.0	winter	20.96%
2/14/79	12.0	winter	21.46%
11/1/68	12.0	winter	21.97%
3/1/67	12.0	winter	22.47%
1/1/67	12.0	winter	22.98%
3/1/66	12.0	winter	23.48%
2/1/66	12.0	winter	23.99%
2/1/65	12.0	winter	24.49%
3/1/63	12.0	winter	25.00%
2/1/62	12.0	winter	25.51%
2/1/60	12.0	winter	26.01%
1/9/90	12.1	winter	26.52%
2/11/85	12.2	winter	27.02%
3/10/98	13.0	winter	27.53%
12/10/80	13.0	winter	28.03%
3/6/78	13.0	winter	28.54%
2/1/73	13.0	winter	29.04%
3/1/71	13.0	winter	29.55%
12/1/66	13.0	winter	30.05%
3/1/65	13.0	winter	30.56%
12/1/64	13.0	winter	31.06%
2/1/64	13.0	winter	31.57%
3/1/62	13.0	winter	32.07%
3/1/60	13.0	winter	32.58%
1/10/95	13.1	winter	33.08%
12/10/84	13.1	winter	33.59%
1/9/84	13.5	winter	34.09%
12/14/81	13.5	winter	34.60%
3/8/77	13.8	winter	35.10%
11/17/92	13.8	winter	35.61%
1/7/92	13.9	winter	36.11%
12/8/86	14.0	winter	36.62%
11/13/84	14.0	winter	37.12%
3/8/82	14.0	winter	37.63%
12/10/76	14.0	winter	38.13%
12/1/68	14.0	winter	38.64%
12/1/65	14.0	winter	39.14%
4/1/64	14.0	winter	39.65%
12/1/63	14.0	winter	40.15%
12/1/62	14.0	winter	40.66%
12/1/61	14.0	winter	41.16%
3/1/59	14.0	winter	41.67%
11/16/82	14.4	winter	42.17%
2/11/76	14.5	winter	42.68%
12/9/75	14.5	winter	43.18%

DATE	WATER TEMP (C)	Season	Percentile
9/1/71	25.0	summer	41.19%
9/1/69	25.0	summer	41.67%
6/1/64	25.0	summer	42.14%
6/1/63	25.0	summer	42.62%
9/1/60	25.0	summer	43.10%
8/15/89	25.1	summer	43.57%
7/13/93	25.2	summer	44.05%
6/14/88	25.3	summer	44.52%
8/13/84	25.3	summer	45.00%
9/9/85	25.4	summer	45.48%
7/15/97	25.5	summer	45.95%
5/14/84	25.5	summer	46.43%
7/6/76	25.5	summer	46.90%
7/9/96	25.6	summer	47.38%
10/11/82	25.6	summer	47.86%
9/12/83	25.7	summer	48.33%
9/13/94	25.8	summer	48.81%
8/10/87	25.9	summer	49.29%
6/13/83	26.0	summer	49.76%
9/14/81	26.0	summer	50.24%
9/12/79	26.0	summer	50.71%
6/14/78	26.0	summer	51.19%
7/8/75	26.0	summer	51.67%
6/1/73	26.0	summer	52.14%
7/1/72	26.0	summer	52.62%
6/1/68	26.0	summer	53.10%
6/1/67	26.0	summer	53.57%
7/1/66	26.0	summer	54.05%
10/1/65	26.0	summer	54.52%
8/1/65	26.0	summer	55.00%
8/1/64	26.0	summer	55.48%
8/1/63	26.0	summer	55.95%
9/1/62	26.0	summer	56.43%
6/1/62	26.0	summer	56.90%
8/1/59	26.0	summer	57.38%
7/1/59	26.0	summer	57.86%
9/1/58	26.0	summer	58.33%
9/10/91	26.1	summer	58.81%
5/12/86	26.3	summer	59.29%
9/10/84	26.3	summer	59.76%
7/16/91	26.4	summer	60.24%
7/8/85	26.4	summer	60.71%
9/9/76	26.4	summer	61.19%
5/13/85	26.5	summer	61.67%
8/13/80	26.5	summer	62.14%
8/8/88	26.6	summer	62.62%

DATE	WATER TEMP (C)	Season	Percentile
3/9/87	14.7	winter	43.69%
12/9/85	14.7	winter	44.19%
11/14/95	14.8	winter	44.70%
11/14/90	15.0	winter	45.20%
4/11/89	15.0	winter	45.71%
3/9/81	15.0	winter	46.21%
4/16/80	15.0	winter	46.72%
11/7/79	15.0	winter	47.22%
4/1/75	15.0	winter	47.73%
2/1/74	15.0	winter	48.23%
1/1/73	15.0	winter	48.74%
11/1/70	15.0	winter	49.24%
12/1/67	15.0	winter	49.75%
2/1/67	15.0	winter	50.25%
11/1/66	15.0	winter	50.76%
1/1/66	15.0	winter	51.26%
11/1/63	15.0	winter	51.77%
4/1/62	15.0	winter	52.27%
3/1/61	15.0	winter	52.78%
12/1/60	15.0	winter	53.28%
1/13/98	15.2	winter	53.79%
1/7/97	15.3	winter	54.29%
4/12/88	15.3	winter	54.80%
3/14/88	15.4	winter	55.30%
3/12/84	15.7	winter	55.81%
1/10/83	15.8	winter	56.31%
3/9/93	15.9	winter	56.82%
1/9/75	16.0	winter	57.32%
1/1/74	16.0	winter	57.83%
3/1/73	16.0	winter	58.33%
2/1/72	16.0	winter	58.84%
3/1/70	16.0	winter	59.34%
11/1/67	16.0	winter	59.85%
11/1/62	16.0	winter	60.35%
2/1/59	16.0	winter	60.86%
3/14/83	16.3	winter	61.36%
11/10/77	16.3	winter	61.87%
1/12/93	16.4	winter	62.37%
2/16/87	16.5	winter	62.88%
11/5/76	16.5	winter	63.38%
3/15/94	16.6	winter	63.89%
2/13/90	16.7	winter	64.39%
11/17/86	16.7	winter	64.90%
3/12/91	17.0	winter	65.40%
1/16/80	17.0	winter	65.91%
12/12/79	17.0	winter	66.41%

DATE	WATER TEMP (C)	Season	Percentile
7/11/83	26.7	summer	63.10%
9/12/95	26.8	summer	63.57%
8/12/85	26.8	summer	64.05%
9/8/86	26.9	summer	64.52%
9/12/89	27.0	summer	65.00%
7/11/89	27.0	summer	65.48%
6/13/89	27.0	summer	65.95%
10/12/81	27.0	summer	66.43%
9/13/78	27.0	summer	66.90%
6/1/74	27.0	summer	67.38%
9/1/68	27.0	summer	67.86%
8/1/68	27.0	summer	68.33%
9/1/65	27.0	summer	68.81%
10/1/64	27.0	summer	69.29%
9/1/64	27.0	summer	69.76%
7/1/64	27.0	summer	70.24%
9/1/63	27.0	summer	70.71%
7/1/63	27.0	summer	71.19%
8/1/62	27.0	summer	71.67%
6/1/61	27.0	summer	72.14%
6/1/60	27.0	summer	72.62%
10/1/59	27.0	summer	73.10%
7/1/58	27.0	summer	73.57%
6/1/58	27.0	summer	74.05%
6/12/90	27.1	summer	74.52%
8/9/82	27.1	summer	75.00%
9/11/90	27.2	summer	75.48%
7/12/88	27.3	summer	75.95%
9/14/87	27.3	summer	76.43%
7/13/87	27.3	summer	76.90%
8/11/86	27.4	summer	77.38%
8/14/90	27.5	summer	77.86%
8/8/83	27.5	summer	78.33%
8/10/81	27.5	summer	78.81%
6/7/77	27.5	summer	79.29%
9/13/82	27.6	summer	79.76%
9/14/93	27.8	summer	80.24%
9/9/97	27.8	summer	80.71%
9/10/96	28.0	summer	81.19%
6/11/84	28.0	summer	81.67%
7/13/81	28.0	summer	82.14%
8/1/71	28.0	summer	82.62%
8/1/70	28.0	summer	83.10%
7/1/69	28.0	summer	83.57%
8/1/67	28.0	summer	84.05%
8/1/66	28.0	summer	84.52%

DATE	WATER TEMP (C)	Season	Percentile
3/14/79	17.0	winter	66.92%
11/1/72	17.0	winter	67.42%
3/1/72	17.0	winter	67.93%
1/1/72	17.0	winter	68.43%
11/1/71	17.0	winter	68.94%
2/1/68	17.0	winter	69.44%
3/1/64	17.0	winter	69.95%
4/1/61	17.0	winter	70.45%
2/17/86	17.4	winter	70.96%
11/16/81	17.5	winter	71.46%
4/10/90	17.6	winter	71.97%
12/12/83	17.6	winter	72.47%
2/13/84	17.7	winter	72.98%
1/9/89	18.0	winter	73.48%
11/17/87	18.0	winter	73.99%
4/1/73	18.0	winter	74.49%
11/1/65	18.0	winter	75.00%
4/1/60	18.0	winter	75.51%
3/14/95	18.4	winter	76.01%
11/15/78	18.5	winter	76.52%
11/19/96	18.6	winter	77.02%
12/14/87	18.6	winter	77.53%
4/11/83	19.0	winter	78.03%
4/12/82	19.0	winter	78.54%
4/18/79	19.0	winter	79.04%
4/6/76	19.0	winter	79.55%
11/1/74	19.0	winter	80.05%
12/1/71	19.0	winter	80.56%
4/1/66	19.0	winter	81.06%
4/1/63	19.0	winter	81.57%
11/1/60	19.0	winter	82.07%
4/1/59	19.0	winter	82.58%
11/19/91	19.1	winter	83.08%
3/12/80	19.5	winter	83.59%
4/13/87	19.8	winter	84.09%
11/15/94	20.0	winter	84.60%
4/12/78	20.0	winter	85.10%
3/1/74	20.0	winter	85.61%
11/1/73	20.0	winter	86.11%
11/14/89	20.1	winter	86.62%
3/10/76	20.1	winter	87.12%
4/9/84	20.2	winter	87.63%
11/16/93	20.3	winter	88.13%
11/14/83	20.3	winter	88.64%
4/8/85	20.6	winter	89.14%
3/10/92	20.6	winter	89.65%

DATE	WATER TEMP (C)	Season	Percentile
6/1/65	28.0	summer	85.00%
9/1/61	28.0	summer	85.48%
8/1/61	28.0	summer	85.95%
8/1/58	28.0	summer	86.43%
6/9/86	28.1	summer	86.90%
6/8/81	28.5	summer	87.38%
8/6/76	28.5	summer	87.86%
7/12/82	29.0	summer	88.33%
8/10/77	29.0	summer	88.81%
7/1/73	29.0	summer	89.29%
9/1/72	29.0	summer	89.76%
6/1/72	29.0	summer	90.24%
7/1/71	29.0	summer	90.71%
5/1/70	29.0	summer	91.19%
7/1/68	29.0	summer	91.67%
7/1/67	29.0	summer	92.14%
9/1/66	29.0	summer	92.62%
9/1/59	29.0	summer	93.10%
7/11/95	29.1	summer	93.57%
7/10/90	29.1	summer	94.05%
7/14/86	29.2	summer	94.52%
6/10/85	29.4	summer	95.00%
7/14/92	29.5	summer	95.48%
7/9/84	29.6	summer	95.95%
7/12/78	30.0	summer	96.43%
8/1/72	30.0	summer	96.90%
6/1/71	30.0	summer	97.38%
8/1/60	30.0	summer	97.86%
7/1/60	30.0	summer	98.33%
6/14/82	30.5	summer	98.81%
7/8/77	33.0	summer	99.29%
7/1/65	33.0	summer	99.76%

DATE	WATER TEMP (C)	Season	Percentile
3/11/97	21.0	winter	90.15%
4/1/74	21.0	winter	90.66%
4/1/69	21.0	winter	91.16%
4/1/65	21.0	winter	91.67%
11/1/64	21.0	winter	92.17%
11/1/61	21.0	winter	92.68%
3/13/90	21.2	winter	93.18%
11/14/88	21.5	winter	93.69%
2/4/75	21.5	winter	94.19%
3/17/86	21.7	winter	94.70%
3/14/89	22.0	winter	95.20%
4/9/77	22.0	winter	95.71%
11/12/75	22.0	winter	96.21%
4/1/72	22.0	winter	96.72%
4/1/68	22.0	winter	97.22%
4/14/86	22.5	winter	97.73%
11/18/85	22.9	winter	98.23%
3/11/85	23.0	winter	98.74%
4/1/67	23.0	winter	99.24%
4/13/81	24.0	winter	99.75%

FILE: R:\PROJECTS\3110-051\BEOUF PDF\90TH PERCENTILE TEMPS 0084,0083,0919, AND 0904.XLS

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%

FILE: R:\PROJECTS\3110-051\BEOUF PDF\90TH PERCENTILE TEMPS 0084,0083,0919, AND 0904.XLS

ADJUSTMENT OF 90TH PERCENTILE TEMPERATURES

Temperature data for Main Canal South of Waggaman, Lousinia
Data retreived from LDEQ website (http://www.deq.state.la.us/surveillance/wqdata/wqnsites.stm)

Main Canal (LDEQ 0904) WATER TEMP			Bayou Segnette (LDEQ 0296) WATER TEMP		
DATE	(C)		DATE	(C)	
12/19/00	12.4	winter	12/19/00	11.7	winter
11/14/00	14.9	winter	11/14/00	16.2	winter
10/17/00	21.6	summer	10/17/00	22.3	summer
9/19/00	25.5	summer	9/19/00	26.7	summer
8/22/00	30.2	summer	8/22/00	31.3	summer
7/25/00	29.5	summer	7/25/00	30.0	summer
6/27/00	26.8	summer	6/27/00	28.6	summer
5/23/00	24.9	summer	5/23/00	28.9	summer
4/25/00	22.4	winter	4/25/00	23.6	winter
3/28/00	21.0	winter	3/28/00	22.9	winter
2/22/00	16.9	winter	2/22/00	18.3	winter
1/25/00	11.6	winter	1/25/00	12.5	winter

SUMMER
Averages for May through October (LTP definition of summer)
26.40 27.97

Difference between stations = -1.57 C

From Previous page, 90th percentile summer temp for Bayou Segnette = 30.89 C

Adjusted 90th percentile temp for Main Canal = 30.89-1.57 = 29.32 C

WINTER
Averages for Jan-April and Nov-Dec (LTP definition of winter)
16.54 17.51

Difference between stations = -0.97 C

From Previous page, 90th percentile winter temp for Bayou Segnette = 22.74 C

Adjusted 90th percentile temp for Main Canal = 22.74-0.97 = 21.77 C

FILE: R:\PROJECTS\3110-051\BEOUF PDF\90TH PERCENTILE TEMPS 0084,0083,0919, AND 0904.XLS

ADJUSTMENT OF 90TH PERCENTILE

Temperature data for Lake Beouff North of Theriot Canal,Lousinia
Data retreived from LDEQ website (http://www.deq.state.la.us/surveillance/wqdata/wqnsites.stm)

Lake Beouff (LDEQ 0919) WATER TEMP			Bayou Chevreuil (LDEQ 0084) WATER TEMP		
DATE	(C)		DATE	(C)	
12/13/00	12.7	winter	12/5/00	9.6	winter
11/8/00	23.5	winter	10/31/00	23.5	summer
10/11/00	13.9	summer	10/3/00	25.2	summer
9/13/00	28.5	summer	9/5/00	31.0	summer
8/16/00	30.3	summer	8/8/00	30.1	summer
7/19/00	31.5	summer	7/11/00	29.3	summer
6/21/00	27.7	summer	6/6/00	28.1	summer
5/17/00	23.8	summer	5/9/00	26.5	summer
4/18/00	21.9	winter	4/11/00	19.3	winter
3/22/00	18.3	winter	3/14/00	19.8	winter
2/16/00	19.6	winter	2/8/00	12.1	winter
1/19/00	15.3	winter	1/11/00	16.6	winter

SUMMER
Averages for May through October (LTP definition of summer)
25.95 27.67

Difference between stations = -1.72 C

From Previous page, 90th percentile summer temp for Bayou Chevreuil = 29.50 C

Adjusted 90th percentile temp for Lake Beouff = 29.50-1.72 = 27.78 C

WINTER
Averages for Jan-April and Nov-Dec (LTP definition of winter)
18.55 15.48

Difference between stations = 3.07 C

From Previous page, 90th percentile winter temp for Bayou Chevreuil = 21.00 C

Adjusted 90th percentile temp for Lake Beouff = 21.0+3.07 = 24.07 C

FILE: R:\PROJECTS\3110-051\BEOUF PDF\90TH PERCENTILE TEMPS 0084,0083,0919, AND 0904.XLS

APPENDIX M

Projection Input Tables

BAYOU BOEUF SYSTEM 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	29.0°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	1.40	34	13	These values were calculated in the TMDL spreadsheet with all man made loads eliminated.
2	0.93	17	6	
3	0.20	8838	3128	
4	0.90	183	42	
5	1.58	55	17	
6	0.43	72	10	
7	0.68	156	31	
8	0.40	60	40	
9	1.12	14	24	
10	1.37	20	31	
11	1.62	0	27	
12	1.63	0	21	
13	1.49	0	27	
14	1.16	0	58	
15	1.33	0	44	
16	1.28	0	46	
17	0.64	0	224	
18	0.89	89	18	
19	1.03	205	76	

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
Theriot Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	6.92 mg/L	90% saturation at 90th percentile temp.
	CBODu	5.99 mg/L	Calculated in the TMDL spreadsheet with all man made loads eliminated
	NBODu	0.96 mg/L	
Halpin Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	6.92 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.59 mg/L	Calculated in the TMDL spreadsheet with all man made loads eliminated
	NBODu	1.17 mg/L	
Grand Bayou	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	6.92 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.94 mg/L	Calculated in the TMDL spreadsheet with all man made loads eliminated
	NBODu	2.06 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
Bowie Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	6.92 mg/L	90% saturation at 90th percentile temp.
	CBODu	7.64 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	1.36 mg/L	
Pitre Lenin Canal and Unnamed Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	6.92 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.53 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	1.35 mg/L	
Bayou Onion	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	6.92 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.93 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	2.07 mg/L	

BAYOU BOEUF SYSTEM MODEL INPUTS FOR WINTER NO LOAD PROJECTION

Table M.5. 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	20.88°C	90th percentile temperature

Table M.6. 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	1.40	34	13	These values were calculated in the TMDL spreadsheet with all man made loads eliminated.
2	0.93	17	6	
3	0.20	8838	3128	
4	0.90	183	42	
5	1.58	55	17	
6	0.43	72	10	
7	0.68	156	31	
8	0.40	60	40	
9	1.12	14	24	
10	1.37	20	31	
11	1.62	0	27	
12	1.63	0	21	
13	1.49	0	27	
14	1.16	0	58	
15	1.33	0	44	
16	1.28	0	46	
17	0.64	0	224	
18	0.89	89	18	
19	1.03	205	76	

Table M.7. Winter No Load Inputs for Headwater (Data Types 20 and 21).

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Theriot Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1 cfs)
	DO	8.04 mg/L	90% saturation at 90th percentile temp.
	CBODu	5.99 mg/L	Calculated in the TMDL spreadsheet with all man made loads eliminated
	NBODu	0.96 mg/L	
Halpin Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1 cfs)
	DO	8.04 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.59 mg/L	Calculated in the TMDL spreadsheet with all man made loads eliminated
	NBODu	1.17 mg/L	
Grand Bayou	Flow rate	0.028 m^3/sec	Default low flow for winter (1 cfs)
	DO	8.04 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.94 mg/L	Calculated in the TMDL spreadsheet with all man made loads eliminated
	NBODu	2.06 mg/L	

Table M.8. Winter No Load Inputs for Wasteloads (Data Types 24, 25 and 26).

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Bowie Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1 cfs)
	DO	8.04 mg/L	90% saturation at 90th percentile temp.
	CBODu	7.64 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	1.36 mg/L	
Pitre Lenin Canal and Unnamed Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1 cfs)
	DO	8.04 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.53 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	1.35 mg/L	
Bayou Onion	Flow rate	0.028 m^3/sec	Default low flow for winter (1 cfs)
	DO	8.04 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.93 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated
	NBODu	2.07 mg/L	

BOEUF SYSTEM MODEL INPUTS FOR SUMMER PROJECTION

Table M.9. Summer Projection Inputs for Initial Conditions (Data Type 11).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
Temperature	all	29.0°C	90th percentile temperature

Table M.10. 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	0.88	21	8	These values were calculated in the TMDL spreadsheet with all man made loads eliminated and background loads reduced by 37%.
2	0.59	11	4	
3	0.13	5568	1971	
4	0.57	116	27	
5	1.00	35	11	
6	0.27	46	6	
7	0.43	98	20	
8	0.25	38	25	
9	0.71	9	15	
10	0.86	12	20	
11	1.02	0	17	
12	1.03	0	13	
13	0.94	0	17	
14	0.73	0	37	
15	0.84	0	28	
16	0.81	0	29	
17	0.40	0	141	
18	0.56	56	11	
19	0.65	129	48	

Table M.11. Summer Projection Inputs for Headwater (Data Types 20 and 21).

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Theriot Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	7.21 mg/L	90% saturation at 90th percentile temp.
	CBODu	3.77 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated and background loads reduced by 37%
	NBODu	0.60 mg/L	
Halpin Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	7.21 mg/L	90% saturation at 90th percentile temp.
	CBODu	4.15 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated and background loads reduced by 37%
	NBODu	0.74 mg/L	
Grand Bayou	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	7.21 mg/L	90% saturation at 90th percentile temp.
	CBODu	4.37 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated and background loads reduced by 37%
	NBODu	1.30 mg/L	

Table M.12. Summer Projection Inputs for Wasteloads (Data Types 24, 25 and 26).

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Bowie Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	7.21 mg/L	90% saturation at 90th percentile temp.
	CBODu	4.82 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated and background loads reduced by 37%
	NBODu	0.85 mg/L	
Pitre Lenin Canal and Unnamed Canal	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	7.21 mg/L	90% saturation at 90th percentile temp.
	CBODu	4.11 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated and background loads reduced by 37%
	NBODu	0.85 mg/L	
Bayou Onion	Flow rate	0.003 m^3/sec	Default low flow for summer (0.1 cfs)
	DO	7.21 mg/L	90% saturation at 90th percentile temp.
	CBODu	4.37 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads eliminated and background loads reduced by 37%
	NBODu	1.30 mg/L	
LA DOTD	Flow	1.1E-4 m^3/sec	based on flow of 2500 GD
	DO	2.00 mg/L	Based on secondary treatment
	CBODu	103.5 mg/L	Based on max weekly BOD5 limit of 45
	NBODu	64.5 mg/L	Based on max weekly NBOD5 limit of 15
LaFourche School Building	Flow	2.2E-4 m^3/sec	based on flow of 5000 GD
	DO	2.00 mg/L	Based on secondary treatment
	CBODu	103.5 mg/L	Based on max weekly BOD5 limit of 45
	NBODu	64.5 mg/L	Based on max weekly NBOD5 limit of 15

BOEUF SYSTEM MODEL INPUTS FOR WINTER PROJECTION

Table M.13. Winter Projection Inputs for Initial Conditions (Data Type 11).

Parameter name or description	Reach(es)	Value used in model	Data Source / Comment
Temperature	all	20.88°C	90th percentile temperature

Table M.14. 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	1.41	34	13	These values were calculated in the TMDL spreadsheet with all man made loads reduced by 98%.
2	0.94	17	6	
3	0.20	8839	3128	
4	0.92	187	43	
5	1.60	56	17	
6	0.57	95	13	
7	0.75	172	34	
8	0.44	66	44	
9	1.29	16	27	
10	1.51	22	35	
11	1.80	0	30	
12	1.83	0	23	
13	1.61	0	30	
14	1.21	0	61	
15	1.41	0	47	
16	1.36	0	48	
17	0.66	0	232	
18	0.96	96	19	
19	1.09	218	81	

Table M.15. Winter Projection Inputs for Headwater (Data Types 20 and 21).

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Theriot Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1 cfs)
	DO	8.04 mg/L	90% saturation at 90th percentile temp.
	CBODu	5.99 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads reduced by 98%.
	NBODu	0.96 mg/L	
Halpin Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1 cfs)
	DO	7.95 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.59 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads reduced by 98%.
	NBODu	1.17 mg/L	
Grand Bayou	Flow rate	0.028 m^3/sec	Default low flow for winter (1 cfs)
	DO	7.93 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.97 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads reduced by 98%.
	NBODu	2.07 mg/L	

Table M.16. Winter Projection Inputs for Wasteloads (Data Types 24, 25 and 26).

Name of inflow	Parameter name	Value used in model	Data Source / Comment
Bowie Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1 cfs)
	DO	7.93 mg/L	90% saturation at 90th percentile temp.
	CBODu	7.70 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads reduced by 98%.
	NBODu	1.37 mg/L	
Pitre Lenin Canal and Unnamed Canal	Flow rate	0.028 m^3/sec	Default low flow for winter (1 cfs)
	DO	7.89 mg/L	90% saturation at 90th percentile temp.
	CBODu	6.53 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads reduced by 98%.
	NBODu	1.35 mg/L	
Bayou Onion	Flow rate	0.028 m^3/sec	Default low flow for winter (1 cfs)
	DO	7.92 mg/L	90% saturation at 90th percentile temp.
	CBODu	7.01 mg/L	calculated from LDEQ TMDL spreadsheet with all man-made loads reduced by 98%.
	NBODu	2.09 mg/L	
LA DOTD	Flow	1.1E-4 m^3/sec	based on flow of 2500 GD
	DO	2.00 mg/L	Based on secondary treatment
	CBODu	103.5 mg/L	Based on max weekly BOD5 limit of 45
	NBODu	64.5 mg/L	Based on max weekly NBOD5 limit of 15
LaFourche School Building	Flow	2.2E-4 m^3/sec	based on flow of 5000 GD
	DO	2.00 mg/L	Based on secondary treatment
	CBODu	103.5 mg/L	Based on max weekly BOD5 limit of 45
	NBODu	64.5 mg/L	Based on max weekly NBOD5 limit of 15

APPENDIX N

NPS Load Calculations for No-Load Runs

Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Bayou Boeuf System

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: Theriot Canal	3.70	20.90	42	16	0.543	0.207	1.75	**2.50**
Reach 2: Theriot Canal	1.50	14.00	18	6	0.857	0.286	1.00	**2.14**
Reach 3: Lake Boeuf	3.80	1748.00	8900	3150	1.340	0.474	0.20	**2.01**
Reach 4: Bayou Boeuf	4.30	47.85	325	75	1.580	0.365	1.60	**3.54**
Reach 5: Halpin Canal	7.50	23.20	80	25	0.460	0.144	2.30	**2.90**
Reach 6: Halpin Canal	2.20	23.80	1000	135	19.099	2.578	6.00	**27.68**
Reach 7:Halpin Canal	5.80	24.40	800	160	5.653	1.131	3.5	**10.28**
Reach 8: Bayou Boeuf	1.50	41.50	300	200	4.819	3.213	2.0	**10.03**
Reach 9: Grand Bayou	2.20	19.50	100	170	2.331	3.963	8.0	**14.29**
Reach 10: Grand Bayou	2.50	32.50	100	160	1.231	1.969	7.0	**10.20**
Reach 11: Grand Bayou	2.40	29.26	0	150	0.000	2.136	9.0	**11.14**
Reach 12: Grand Bayou	2.50	22.25	0	120	0.000	2.157	9.5	**11.66**
Reach 13: Grand Bayou	1.90	28.10	0	120	0.000	2.248	6.5	**8.75**
Reach 14: Grand Bayou	1.90	36.70	0	150	0.000	2.151	3.0	**5.15**
Reach 15: Grand Bayou	2.00	32.92	0	150	0.000	2.278	4.5	**6.78**
Reach 16: Grand Bayou	1.80	35.35	0	160	0.000	2.515	4.5	**7.01**
Reach 17: Grand Bayou	4.80	34.42	0	525	0.000	3.178	1.5	**4.68**
Reach 18: Bayou Boeuf	1.40	69.03	350	70	3.622	0.724	3.5	**7.85**
Reach 19: Bayou Boeuf	4.60	62.80	700	260	2.423	0.900	3.5	**6.82**

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

Bayou Boeuf System

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**
Theriot Cnal	0.00283127	6.0	1.0	1.47	0.23	5.99	0.96	0%	1.47	0.23	100%	1.47	0.23	1.47	0.23	5.99	0.96	**0.00**	**1.70**
Halpin Canal	0.00283127	6.6	1.2	1.61	0.29	6.59	1.17	0%	1.61	0.29	100%	1.61	0.29	1.61	0.29	6.59	1.17	**0.00**	**1.90**
Grand Bayou	0.00283127	8.4	2.5	2.06	0.61	6.94	2.06	0%	1.70	0.50	100%	1.70	0.50	1.70	0.50	6.94	2.06	**0.00**	**2.20**
Bowie Canal	0.00283127	10.0	1.8	2.44	0.43	7.64	1.36	0%	1.87	0.33	100%	1.87	0.33	1.87	0.33	7.64	1.36	**0.00**	**2.20**
Pitre Lening Canal	0.00283127	6.5	1.4	1.60	0.33	6.53	1.35	0%	1.60	0.33	100%	1.60	0.33	1.60	0.33	6.53	1.35	**0.00**	**1.93**
Unnmaed Canal	0.00283127	6.5	1.4	1.60	0.33	6.53	1.35	0%	1.60	0.33	100%	1.60	0.33	1.60	0.33	6.53	1.35	**0.00**	**1.93**
Bayou Onion	0.00283127	10.0	3.0	2.43	0.73	6.93	2.07	0%	1.70	0.51	100%	1.70	0.51	1.70	0.51	6.93	2.07	**0.00**	**2.20**
SUB-TOTAL TMDL LOADING				**13**	**3**				**12**	**3**		**12**	**3**	**12**	**3**			**0**	**14**

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%**

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

Modeled stream or water body:	Bayou Boeuf System

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: Theriot Canal	0.543	0.207	1.75	2.500	3.70	2.00	0%	2.00	20.90	29.00	100.0%	2.00	2.00	0.434	0.166	1.40	34	13	191	237.22	0	0	0	0	0	0
Reach 2: Theriot Canal	0.857	0.286	1.00	2.143	1.50	2.00	0%	2.00	14.00	29.00	100.0%	2.00	2.00	0.800	0.267	0.93	17	6	35	56.95	0	0	0	0	0	0
Reach 3: Lake Boeuf	1.340	0.474	0.20	2.014	3.80	2.00	0%	2.00	1748.00	29.00	100.0%	2.00	2.00	1.330	0.471	0.20	8838	3128	2325	14290.77	0	0	0	0	0	0
Reach 4: Bayou Boeuf	1.580	0.365	1.60	3.544	4.30	2.00	0%	2.00	47.85	29.00	100.0%	2.00	2.00	0.891	0.206	0.90	183	42	327	553.18	0	0	0	0	0	0
Reach 5: Halpin Canal	0.460	0.144	2.30	2.903	7.50	2.00	0%	2.00	23.20	29.00	100.0%	2.00	2.00	0.317	0.099	1.58	55	17	486	558.22	0	0	0	0	0	0
Reach 6: Halpin Canal	19.099	2.578	6.00	27.677	2.20	2.00	0%	2.00	23.80	29.00	100.0%	2.00	2.00	1.380	0.186	0.43	72	10	40	122.03	0	0	0	0	0	0
Reach 7:Halpin Canal	5.653	1.131	3.50	10.283	5.80	2.00	0%	2.00	24.40	29.00	100.0%	2.00	2.00	1.099	0.220	0.68	156	31	170	356.50	0	0	0	0	0	0
Reach 8: Bayou Boeuf	4.819	3.213	2.00	10.032	1.50	2.00	0%	2.00	41.50	29.00	100.0%	2.00	2.00	0.961	0.641	0.40	60	40	44	143.43	0	0	0	0	0	0
Reach 9: Grand Bayou	2.331	3.963	8.00	14.294	2.20	2.00	0%	2.00	19.50	29.00	100.0%	2.00	2.00	0.326	0.554	1.12	14	24	85	122.42	0	0	0	0	0	0
Reach 10: Grand Bayou	1.231	1.969	7.00	10.200	2.50	2.00	0%	2.00	32.50	29.00	100.0%	2.00	2.00	0.241	0.386	1.37	20	31	197	247.54	0	0	0	0	0	0
Reach 11: Grand Bayou	0.000	2.136	9.00	11.136	2.40	2.00	0%	2.00	29.26	29.00	100.0%	2.00	2.00	0.000	0.384	1.62	0	27	200	227.01	0	0	0	0	0	0
Reach 12: Grand Bayou	0.000	2.157	9.50	11.657	2.50	2.00	0%	2.00	22.25	29.00	100.0%	2.00	2.00	0.000	0.370	1.63	0	21	160	180.39	0	0	0	0	0	0
Reach 13: Grand Bayou	0.000	2.248	6.50	8.748	1.90	2.00	0%	2.00	28.10	29.00	100.0%	2.00	2.00	0.000	0.514	1.49	0	27	140	167.29	0	0	0	0	0	0
Reach 14: Grand Bayou	0.000	2.151	3.00	5.151	1.90	2.00	0%	2.00	36.70	29.00	100.0%	2.00	2.00	0.000	0.835	1.16	0	58	143	201.40	0	0	0	0	0	0
Reach 15: Grand Bayou	0.000	2.278	4.50	6.778	2.00	2.00	0%	2.00	32.92	29.00	100.0%	2.00	2.00	0.000	0.672	1.33	0	44	154	198.34	0	0	0	0	0	0
Reach 16: Grand Bayou	0.000	2.515	4.50	7.015	1.80	2.00	0%	2.00	35.35	29.00	100.0%	2.00	2.00	0.000	0.717	1.28	0	46	144	189.52	0	0	0	0	0	0
Reach 17: Grand Bayou	0.000	3.178	1.50	4.678	4.80	2.00	0%	2.00	34.42	29.00	100.0%	2.00	2.00	0.000	1.359	0.64	0	224	187	411.23	0	0	0	0	0	0
Reach 18: Bayou Boeuf	3.622	0.724	3.50	7.846	1.40	2.00	0%	2.00	69.03	29.00	100.0%	2.00	2.00	0.923	0.185	0.89	89	18	152	259.03	0	0	0	0	0	0
Reach 19: Bayou Boeuf	2.423	0.900	3.50	6.823	4.60	2.00	0%	2.00	62.80	29.00	100.0%	2.00	2.00	0.710	0.264	1.03	205	76	522	803.76	0	0	0	0	0	0
Sub-Total												38.00					9742	3883	5701	**19326**	0		0	0	0	**0**

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

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

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

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

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

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

EXPLICIT MARGINS:

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

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

Modeled stream or water body:	Bayou Boeuf System

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: Theriot Canal	0.543	0.207	1.75	2.500	3.70	2.00	0%	2.00	20.90	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	34	13	191	237.22
Reach 2: Theriot Canal	0.857	0.286	1.00	2.143	1.50	2.00	0%	2.00	14.00	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	17	6	35	56.95
Reach 3: Lake Boeuf	1.340	0.474	0.20	2.014	3.80	2.00	0%	2.00	1748.00	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	8838	3128	2325	14290.77
Reach 4: Bayou Boeuf	1.580	0.365	1.60	3.544	4.30	2.00	0%	2.00	47.85	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	183	42	327	553.18
Reach 5: Halpin Canal	0.460	0.144	2.30	2.903	7.50	2.00	0%	2.00	23.20	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	55	17	486	558.22
Reach 6: Halpin Canal	19.099	2.578	6.00	27.677	2.20	2.00	0%	2.00	23.80	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	72	10	40	122.03
Reach 7:Halpin Canal	5.653	1.131	3.50	10.283	5.80	2.00	0%	2.00	24.40	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	156	31	170	356.50
Reach 8: Bayou Boeuf	4.819	3.213	2.00	10.032	1.50	2.00	0%	2.00	41.50	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	60	40	44	143.43
Reach 9: Grand Bayou	2.331	3.963	8.00	14.294	2.20	2.00	0%	2.00	19.50	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	14	24	85	122.42
Reach 10: Grand Bayou	1.231	1.969	7.00	10.200	2.50	2.00	0%	2.00	32.50	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	20	31	197	247.54
Reach 11: Grand Bayou	0.000	2.136	9.00	11.136	2.40	2.00	0%	2.00	29.26	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	0	27	200	227.01
Reach 12: Grand Bayou	0.000	2.157	9.50	11.657	2.50	2.00	0%	2.00	22.25	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	0	21	160	180.39
Reach 13: Grand Bayou	0.000	2.248	6.50	8.748	1.90	2.00	0%	2.00	28.10	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	0	27	140	167.29
Reach 14: Grand Bayou	0.000	2.151	3.00	5.151	1.90	2.00	0%	2.00	36.70	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	0	58	143	201.40
Reach 15: Grand Bayou	0.000	2.278	4.50	6.778	2.00	2.00	0%	2.00	32.92	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	0	44	154	198.34
Reach 16: Grand Bayou	0.000	2.515	4.50	7.015	1.80	2.00	0%	2.00	35.35	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	0	46	144	189.52
Reach 17: Grand Bayou	0.000	3.178	1.50	4.678	4.80	2.00	0%	2.00	34.42	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	0	224	187	411.23
Reach 18: Bayou Boeuf	3.622	0.724	3.50	7.846	1.40	2.00	0%	2.00	69.03	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	89	18	152	259.03
Reach 19: Bayou Boeuf	2.423	0.900	3.50	6.823	4.60	2.00	0%	2.00	62.80	29.00	100.0%	0.00	0.000	0.000	0.00	0	0	0	0.00	205	76	522	803.76
Sub-Total																0	0	0	**0**	9742	3883	5701	**19326**

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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Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Bayou Boeuf System

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: Theriot Canal	3.70	20.90	42	16	0.543	0.207	1.75	**2.50**
Reach 2: Theriot Canal	1.50	14.00	18	6	0.857	0.286	1.00	**2.14**
Reach 3: Lake Boeuf	3.80	1748.00	8900	3150	1.340	0.474	0.20	**2.01**
Reach 4: Bayou Boeuf	4.30	47.85	325	75	1.580	0.365	1.60	**3.54**
Reach 5: Halpin Canal	7.50	23.20	80	25	0.460	0.144	2.30	**2.90**
Reach 6: Halpin Canal	2.20	23.80	1000	135	19.099	2.578	6.00	**27.68**
Reach 7:Halpin Canal	5.80	24.40	800	160	5.653	1.131	3.5	**10.28**
Reach 8: Bayou Boeuf	1.50	41.50	300	200	4.819	3.213	2.0	**10.03**
Reach 9: Grand Bayou	2.20	19.50	100	170	2.331	3.963	8.0	**14.29**
Reach 10: Grand Bayou	2.50	32.50	100	160	1.231	1.969	7.0	**10.20**
Reach 11: Grand Bayou	2.40	29.26	0	150	0.000	2.136	9.0	**11.14**
Reach 12: Grand Bayou	2.50	22.25	0	120	0.000	2.157	9.5	**11.66**
Reach 13: Grand Bayou	1.90	28.10	0	120	0.000	2.248	6.5	**8.75**
Reach 14: Grand Bayou	1.90	36.70	0	150	0.000	2.151	3.0	**5.15**
Reach 15: Grand Bayou	2.00	32.92	0	150	0.000	2.278	4.5	**6.78**
Reach 16: Grand Bayou	1.80	35.35	0	160	0.000	2.515	4.5	**7.01**
Reach 17: Grand Bayou	4.80	34.42	0	525	0.000	3.178	1.5	**4.68**
Reach 18: Bayou Boeuf	1.40	69.03	350	70	3.622	0.724	3.5	**7.85**
Reach 19: Bayou Boeuf	4.60	62.80	700	260	2.423	0.900	3.5	**6.82**

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

Bayou Boeuf System

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**
Theriot Cnal	0.00283127	6.0	1.0	1.47	0.23	5.99	0.96	0%	1.47	0.23	100%	1.47	0.23	1.47	0.23	5.99	0.96	**0.00**	**1.70**
Halpin Canal	0.00283127	6.6	1.2	1.61	0.29	6.59	1.17	0%	1.61	0.29	100%	1.61	0.29	1.61	0.29	6.59	1.17	**0.00**	**1.90**
Grand Bayou	0.00283127	8.4	2.5	2.06	0.61	6.94	2.06	0%	1.70	0.50	100%	1.70	0.50	1.70	0.50	6.94	2.06	**0.00**	**2.20**
Bowie Canal	0.00283127	10.0	1.8	2.44	0.43	7.64	1.36	0%	1.87	0.33	100%	1.87	0.33	1.87	0.33	7.64	1.36	**0.00**	**2.20**
Pitre Lening Canal	0.00283127	6.5	1.4	1.60	0.33	6.53	1.35	0%	1.60	0.33	100%	1.60	0.33	1.60	0.33	6.53	1.35	**0.00**	**1.93**
Unnmaed Canal	0.00283127	6.5	1.4	1.60	0.33	6.53	1.35	0%	1.60	0.33	100%	1.60	0.33	1.60	0.33	6.53	1.35	**0.00**	**1.93**
Bayou Onion	0.00283127	10.0	3.0	2.43	0.73	6.93	2.07	0%	1.70	0.51	100%	1.70	0.51	1.70	0.51	6.93	2.07	**0.00**	**2.20**
SUB-TOTAL TMDL LOADING				**13**	**3**				**12**	**3**		**12**	**3**	**12**	**3**			**0**	**14**

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

Modeled stream or water body:	Bayou Boeuf System

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: Theriot Canal	0.543	0.207	1.75	2.500	3.70	2.00	0%	2.00	20.90	20.88	100.0%	2.00	2.00	0.434	0.166	1.40	34	13	114	160.83	0	0	0	0	0	0
Reach 2: Theriot Canal	0.857	0.286	1.00	2.143	1.50	2.00	0%	2.00	14.00	20.88	100.0%	2.00	2.00	0.800	0.267	0.93	17	6	21	43.12	0	0	0	0	0	0
Reach 3: Lake Boeuf	1.340	0.474	0.20	2.014	3.80	2.00	0%	2.00	1748.00	20.88	100.0%	2.00	2.00	1.330	0.471	0.20	8838	3128	1394	13359.97	0	0	0	0	0	0
Reach 4: Bayou Boeuf	1.580	0.365	1.60	3.544	4.30	2.00	0%	2.00	47.85	20.88	100.0%	2.00	2.00	0.891	0.206	0.90	183	42	196	422.10	0	0	0	0	0	0
Reach 5: Halpin Canal	0.460	0.144	2.30	2.903	7.50	2.00	0%	2.00	23.20	20.88	100.0%	2.00	2.00	0.317	0.099	1.58	55	17	291	363.71	0	0	0	0	0	0
Reach 6: Halpin Canal	19.099	2.578	6.00	27.677	2.20	2.00	0%	2.00	23.80	20.88	100.0%	2.00	2.00	1.380	0.186	0.43	72	10	24	106.01	0	0	0	0	0	0
Reach 7:Halpin Canal	5.653	1.131	3.50	10.283	5.80	2.00	0%	2.00	24.40	20.88	100.0%	2.00	2.00	1.099	0.220	0.68	156	31	102	288.53	0	0	0	0	0	0
Reach 8: Bayou Boeuf	4.819	3.213	2.00	10.032	1.50	2.00	0%	2.00	41.50	20.88	100.0%	2.00	2.00	0.961	0.641	0.40	60	40	26	125.91	0	0	0	0	0	0
Reach 9: Grand Bayou	2.331	3.963	8.00	14.294	2.20	2.00	0%	2.00	19.50	20.88	100.0%	2.00	2.00	0.326	0.554	1.12	14	24	51	88.54	0	0	0	0	0	0
Reach 10: Grand Bayou	1.231	1.969	7.00	10.200	2.50	2.00	0%	2.00	32.50	20.88	100.0%	2.00	2.00	0.241	0.386	1.37	20	31	118	168.85	0	0	0	0	0	0
Reach 11: Grand Bayou	0.000	2.136	9.00	11.136	2.40	2.00	0%	2.00	29.26	20.88	100.0%	2.00	2.00	0.000	0.384	1.62	0	27	120	146.92	0	0	0	0	0	0
Reach 12: Grand Bayou	0.000	2.157	9.50	11.657	2.50	2.00	0%	2.00	22.25	20.88	100.0%	2.00	2.00	0.000	0.370	1.63	0	21	96	116.42	0	0	0	0	0	0
Reach 13: Grand Bayou	0.000	2.248	6.50	8.748	1.90	2.00	0%	2.00	28.10	20.88	100.0%	2.00	2.00	0.000	0.514	1.49	0	27	84	111.30	0	0	0	0	0	0
Reach 14: Grand Bayou	0.000	2.151	3.00	5.151	1.90	2.00	0%	2.00	36.70	20.88	100.0%	2.00	2.00	0.000	0.835	1.16	0	58	86	144.09	0	0	0	0	0	0
Reach 15: Grand Bayou	0.000	2.278	4.50	6.778	2.00	2.00	0%	2.00	32.92	20.88	100.0%	2.00	2.00	0.000	0.672	1.33	0	44	92	136.66	0	0	0	0	0	0
Reach 16: Grand Bayou	0.000	2.515	4.50	7.015	1.80	2.00	0%	2.00	35.35	20.88	100.0%	2.00	2.00	0.000	0.717	1.28	0	46	86	131.91	0	0	0	0	0	0
Reach 17: Grand Bayou	0.000	3.178	1.50	4.678	4.80	2.00	0%	2.00	34.42	20.88	100.0%	2.00	2.00	0.000	1.359	0.64	0	224	112	336.47	0	0	0	0	0	0
Reach 18: Bayou Boeuf	3.622	0.724	3.50	7.846	1.40	2.00	0%	2.00	69.03	20.88	100.0%	2.00	2.00	0.923	0.185	0.89	89	18	91	198.20	0	0	0	0	0	0
Reach 19: Bayou Boeuf	2.423	0.900	3.50	6.823	4.60	2.00	0%	2.00	62.80	20.88	100.0%	2.00	2.00	0.710	0.264	1.03	205	76	313	594.65	0	0	0	0	0	0
Sub-Total												38.00					9742	3883	3419	**17044**	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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Winter Projection, No Man Made Loading, Non-Point Benthic Load Input and TMDL Calculatior

Modeled stream or water body:	Bayou Boeuf System

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: Theriot Canal	0.543	0.207	1.75	2.500	3.70	2.00	0%	2.00	20.90	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	34	13	114	160.83
Reach 2: Theriot Canal	0.857	0.286	1.00	2.143	1.50	2.00	0%	2.00	14.00	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	17	6	21	43.12
Reach 3: Lake Boeuf	1.340	0.474	0.20	2.014	3.80	2.00	0%	2.00	1748.00	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	8838	3128	1394	13359.97
Reach 4: Bayou Boeuf	1.580	0.365	1.60	3.544	4.30	2.00	0%	2.00	47.85	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	183	42	196	422.10
Reach 5: Halpin Canal	0.460	0.144	2.30	2.903	7.50	2.00	0%	2.00	23.20	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	55	17	291	363.71
Reach 6: Halpin Canal	19.099	2.578	6.00	27.677	2.20	2.00	0%	2.00	23.80	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	72	10	24	106.01
Reach 7:Halpin Canal	5.653	1.131	3.50	10.283	5.80	2.00	0%	2.00	24.40	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	156	31	102	288.53
Reach 8: Bayou Boeuf	4.819	3.213	2.00	10.032	1.50	2.00	0%	2.00	41.50	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	60	40	26	125.91
Reach 9: Grand Bayou	2.331	3.963	8.00	14.294	2.20	2.00	0%	2.00	19.50	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	14	24	51	88.54
Reach 10: Grand Bayou	1.231	1.969	7.00	10.200	2.50	2.00	0%	2.00	32.50	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	20	31	118	168.85
Reach 11: Grand Bayou	0.000	2.136	9.00	11.136	2.40	2.00	0%	2.00	29.26	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	0	27	120	146.92
Reach 12: Grand Bayou	0.000	2.157	9.50	11.657	2.50	2.00	0%	2.00	22.25	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	0	21	96	116.42
Reach 13: Grand Bayou	0.000	2.248	6.50	8.748	1.90	2.00	0%	2.00	28.10	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	0	27	84	111.30
Reach 14: Grand Bayou	0.000	2.151	3.00	5.151	1.90	2.00	0%	2.00	36.70	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	0	58	86	144.09
Reach 15: Grand Bayou	0.000	2.278	4.50	6.778	2.00	2.00	0%	2.00	32.92	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	0	44	92	136.66
Reach 16: Grand Bayou	0.000	2.515	4.50	7.015	1.80	2.00	0%	2.00	35.35	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	0	46	86	131.91
Reach 17: Grand Bayou	0.000	3.178	1.50	4.678	4.80	2.00	0%	2.00	34.42	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	0	224	112	336.47
Reach 18: Bayou Boeuf	3.622	0.724	3.50	7.846	1.40	2.00	0%	2.00	69.03	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	89	18	91	198.20
Reach 19: Bayou Boeuf	2.423	0.900	3.50	6.823	4.60	2.00	0%	2.00	62.80	20.88	100.0%	2.00	0.00	0.000	0.000	0.00	0	0	0	0.00	205	76	313	594.65
Sub-Total												38.00					0	0	0	**0**	9742	3883	3419	**17044**

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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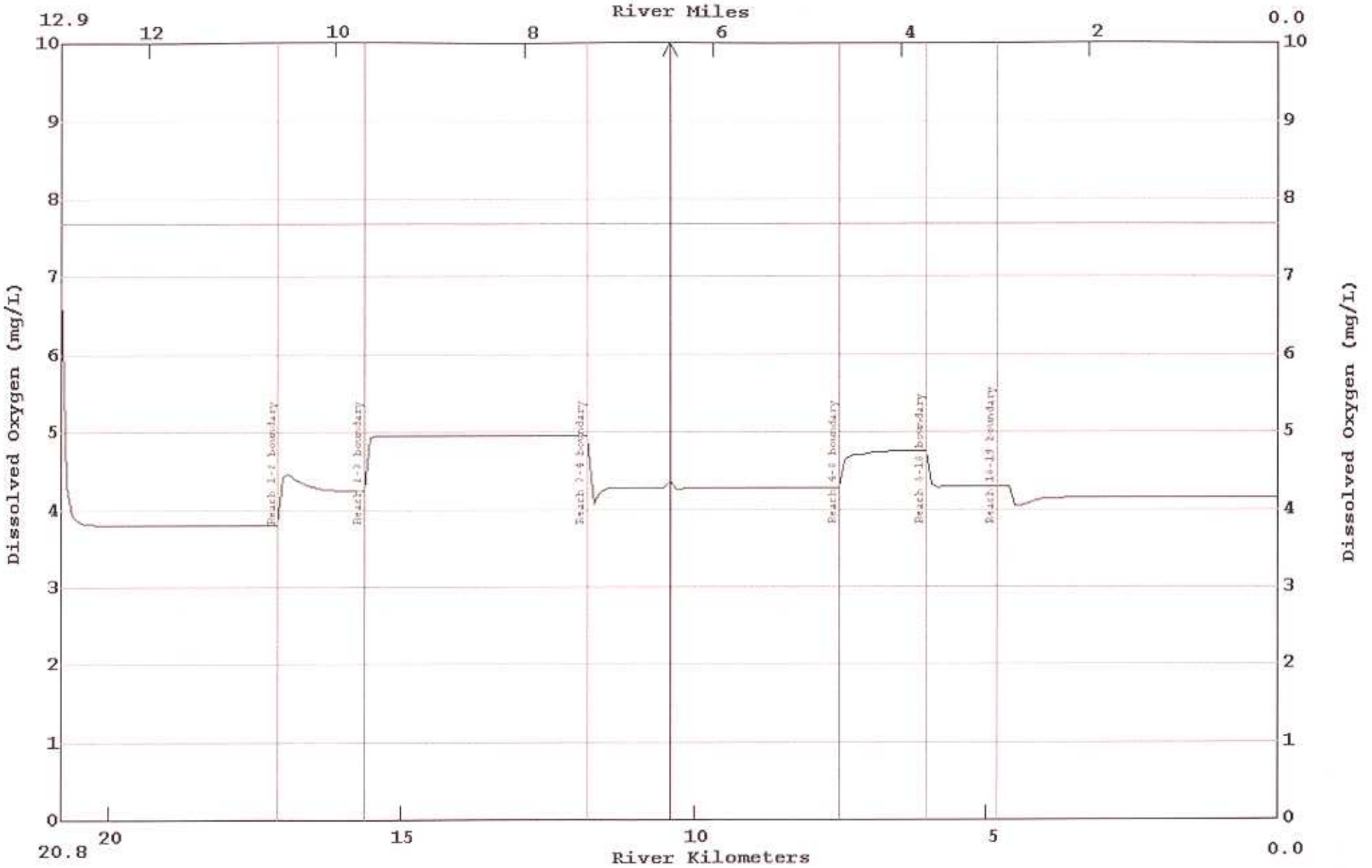
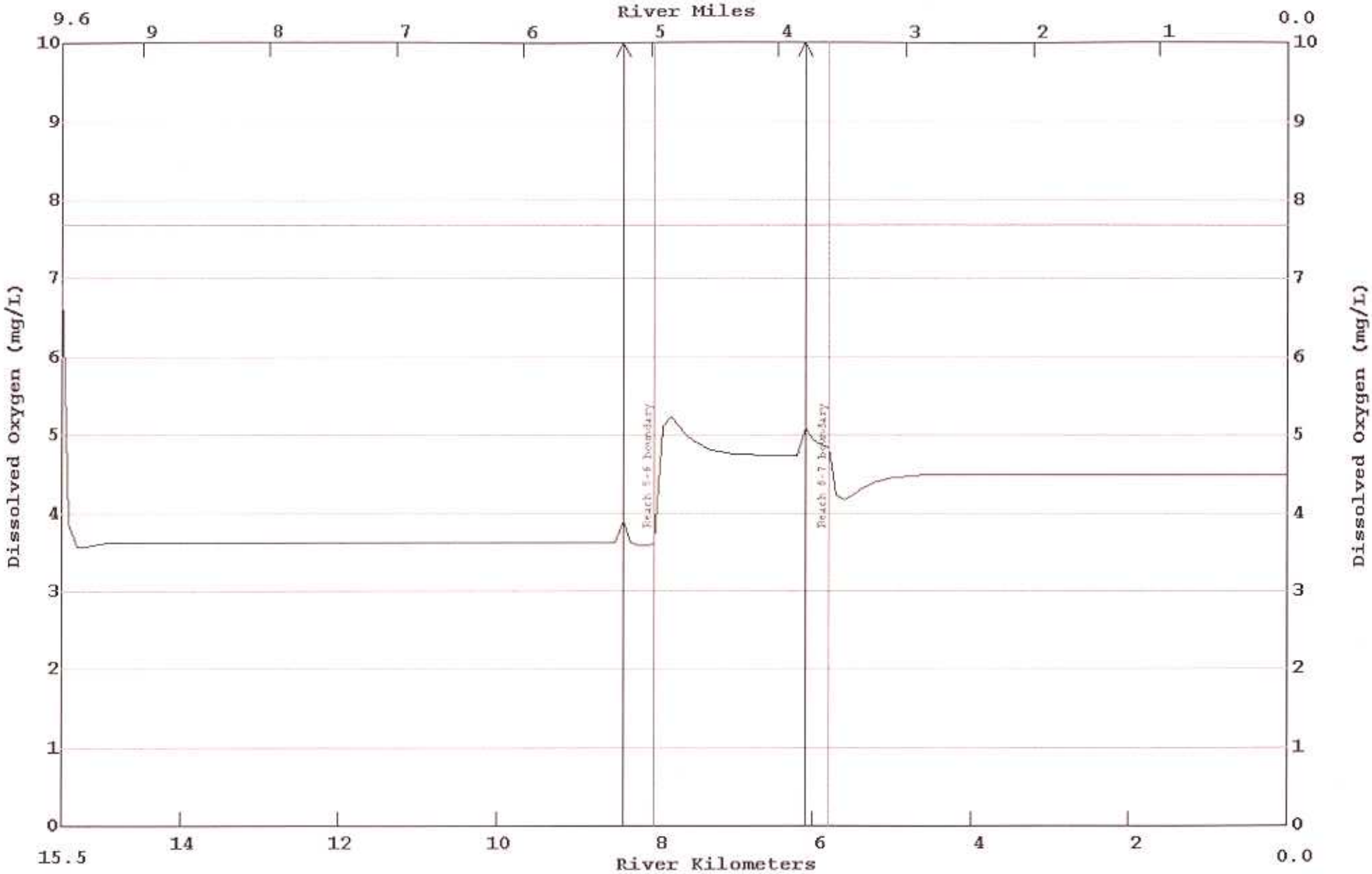
APPENDIX O

Model Output for No-Load Runs

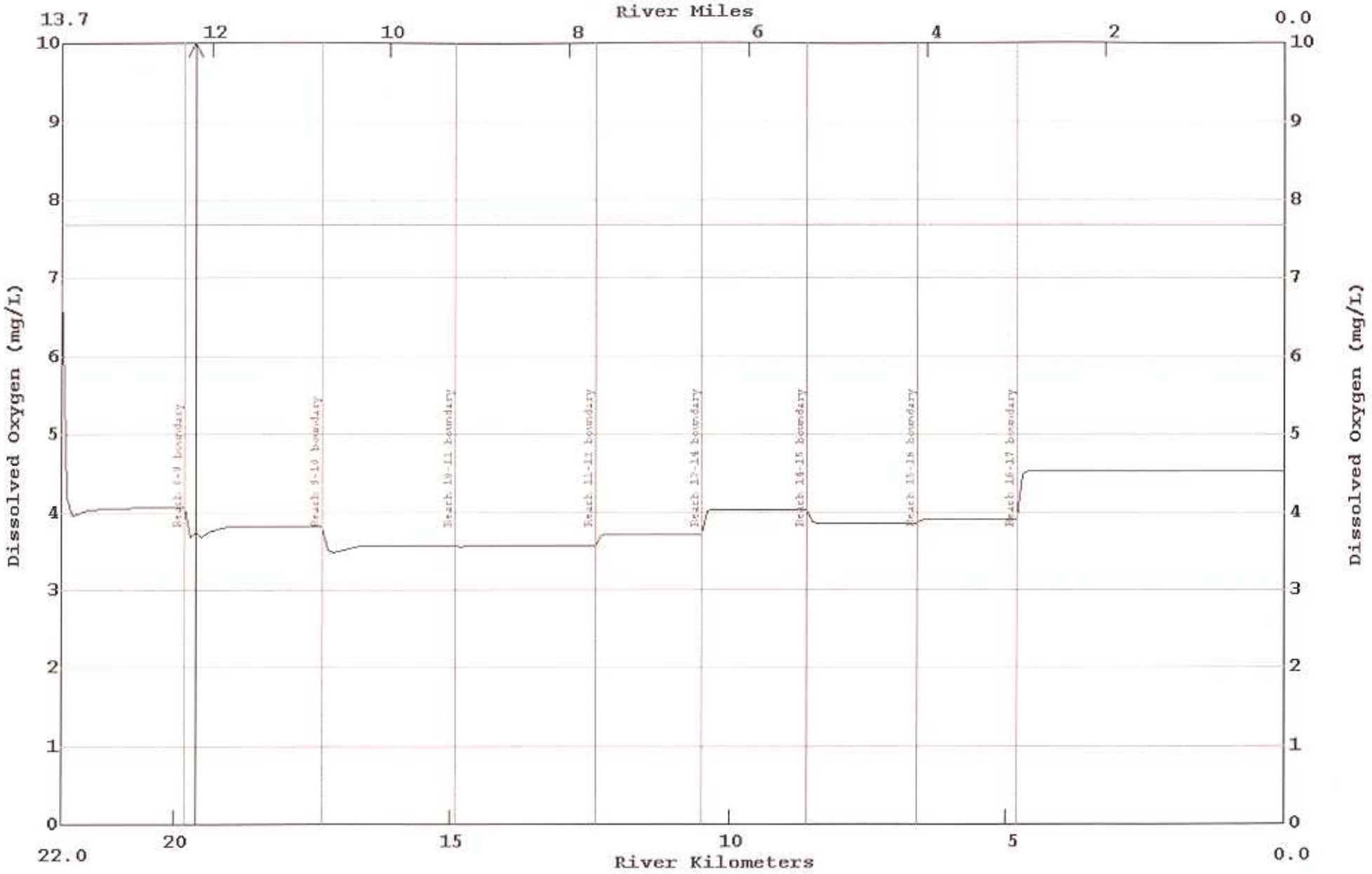
LA-QUAL Version 6.02 Run at 10:03 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\proj\summer\nat\bf_sum_nat.txt
Summer Projection Natural (no man made loads) condtions min= 3.79 max= 6.92
Main Stem



LA-QUAL Version 6.02 Run at 10:03 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\proj\summer\nat\bf_sum_nat.txt
Summer Projection Natural (no man made loads) condtions min= 3.56 max= 6.92
Halpin Canal



LA-QUAL Version 6.02 Run at 10:03 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\proj\summer\nat\bf_sum_nat.txt
Summer Projection Natural (no man made loads) condtions min= 3.48 max= 6.92
Grand Bayou



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LA-QUAL Version 6.02
Louisiana Department of Environmental Quality

Input file is R:\projects\3110-051\la-qual\boeuf\proj\summer\nat\bf_sum_nat.txt
Output produced at 10:03 on 03/04/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
TITLE02         Summer Projection Natural (no man made loads) condtions
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            =      2000.00000
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	TC	Theriot Canal	20.80	TO	17.10	0.1000	3.70	37	1	37
REACH ID	2	TC	Theriot Canal	17.10	TO	15.60	0.1000	1.50	15	38	52
REACH ID	3	LB	Lake Boeuf	15.60	TO	11.80	0.1000	3.80	38	53	90
REACH ID	4	BB	Bayou Boeuf	11.80	TO	7.50	0.1000	4.30	43	91	133
REACH ID	5	HC	Halpin Canal	15.50	TO	8.00	0.1000	7.50	75	134	208
REACH ID	6	HC	Halpin Canal	8.00	TO	5.80	0.1000	2.20	22	209	230
REACH ID	7	HC	Halpin Canal	5.80	TO	0.00	0.1000	5.80	58	231	288
REACH ID	8	BB	Bayou Boeuf	7.50	TO	6.00	0.1000	1.50	15	289	303
REACH ID	9	GB	Grand Bayou	22.00	TO	19.80	0.1000	2.20	22	304	325
REACH ID	10	GB	Grand Bayou	19.80	TO	17.30	0.1000	2.50	25	326	350
REACH ID	11	GB	Grand Bayou	17.30	TO	14.90	0.1000	2.40	24	351	374
REACH ID	12	GB	Grand Bayou	14.90	TO	12.40	0.1000	2.50	25	375	399
REACH ID	13	GB	Grand Bayou	12.40	TO	10.50	0.1000	1.90	19	400	418
REACH ID	14	GB	Grand Bayou	10.50	TO	8.60	0.1000	1.90	19	419	437
REACH ID	15	GB	Grand Bayou	8.60	TO	6.60	0.1000	2.00	20	438	457
REACH ID	16	GB	Grand Bayou	6.60	TO	4.80	0.1000	1.80	18	458	475
REACH ID	17	GB	Grand Bayou	4.80	TO	0.00	0.1000	4.80	48	476	523
REACH ID	18	BB	Bayou Beouf	6.00	TO	4.60	0.1000	1.40	14	524	537
REACH ID	19	BB	Bayou Beouf	4.60	TO	0.00	0.1000	4.60	46	538	583

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	TC	0.000	0.000	20.900	0.000	0.000	0.560	0.00000	0.000
HYDR-1	2	TC	0.000	0.000	14.000	0.000	0.000	0.670	0.00000	0.000
HYDR-1	3	LB	0.000	0.000	1748.000	0.000	0.000	1.220	0.00000	0.000
HYDR-1	4	BB	0.000	0.000	47.850	0.000	0.000	1.325	0.00000	0.000
HYDR-1	5	HC	0.000	0.000	23.200	0.000	0.000	0.760	0.00000	0.000
HYDR-1	6	HC	0.000	0.000	23.800	0.000	0.000	1.050	0.00000	0.000
HYDR-1	7	HC	0.000	0.000	24.400	0.000	0.000	1.340	0.00000	0.000
HYDR-1	8	BB	0.000	0.000	41.500	0.000	0.000	1.710	0.00000	0.000
HYDR-1	9	GB	0.000	0.000	19.500	0.000	0.000	0.996	0.00000	0.000
HYDR-1	10	GB	0.000	0.000	32.500	0.000	0.000	1.515	0.00000	0.000
HYDR-1	11	GB	0.000	0.000	29.260	0.000	0.000	1.120	0.00000	0.000
HYDR-1	12	GB	0.000	0.000	22.250	0.000	0.000	1.235	0.00000	0.000
HYDR-1	13	GB	0.000	0.000	28.100	0.000	0.000	1.400	0.00000	0.000
HYDR-1	14	GB	0.000	0.000	36.700	0.000	0.000	1.585	0.00000	0.000
HYDR-1	15	GB	0.000	0.000	32.920	0.000	0.000	1.645	0.00000	0.000
HYDR-1	16	GB	0.000	0.000	35.350	0.000	0.000	1.520	0.00000	0.000
HYDR-1	17	GB	0.000	0.000	34.420	0.000	0.000	2.040	0.00000	0.000
HYDR-1	18	BB	0.000	0.000	69.030	0.000	0.000	1.850	0.00000	0.000
HYDR-1	19	BB	0.000	0.000	62.800	0.000	0.000	2.010	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"

ENDATA10

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

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	TC	29.00	0.12	5.70	0.00	0.00	0.00	0.00	0.00
INITIAL	2	TC	29.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00
INITIAL	3	LB	29.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00
INITIAL	4	BB	29.00	0.09	3.10	0.00	0.00	0.00	0.00	0.00
INITIAL	5	HC	29.00	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	6	HC	29.00	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	7	HC	29.00	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	8	BB	29.00	0.11	3.10	0.00	0.00	0.00	0.00	0.00
INITIAL	9	GB	29.00	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	10	GB	29.00	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	11	GB	29.00	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	12	GB	29.00	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	13	GB	29.00	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	14	GB	29.00	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	15	GB	29.00	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	16	GB	29.00	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	17	GB	29.00	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	18	BB	29.00	0.10	3.00	0.00	0.00	0.00	0.00	0.00
INITIAL	19	BB	29.00	0.10	3.00	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	TC	15 LOUISIANA	0.000	0.000	0.000	1.400	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	TC	15 LOUISIANA	0.000	0.000	0.000	0.930	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	LB	15 LOUISIANA	0.000	0.000	0.000	0.200	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	BB	15 LOUISIANA	0.000	0.000	0.000	0.900	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	HC	15 LOUISIANA	0.000	0.000	0.000	1.580	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	HC	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	7	HC	15 LOUISIANA	0.000	0.000	0.000	0.680	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	BB	15 LOUISIANA	0.000	0.000	0.000	0.400	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	GB	15 LOUISIANA	0.000	0.000	0.000	1.120	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	GB	15 LOUISIANA	0.000	0.000	0.000	1.370	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	11	GB	15 LOUISIANA	0.000	0.000	0.000	1.620	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	GB	15 LOUISIANA	0.000	0.000	0.000	1.630	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	GB	15 LOUISIANA	0.000	0.000	0.000	1.490	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	GB	15 LOUISIANA	0.000	0.000	0.000	1.160	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	15	GB	15 LOUISIANA	0.000	0.000	0.000	1.330	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	16	GB	15 LOUISIANA	0.000	0.000	0.000	1.280	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	17	GB	15 LOUISIANA	0.000	0.000	0.000	0.640	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	18	BB	15 LOUISIANA	0.000	0.000	0.000	0.890	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	19	BB	15 LOUISIANA	0.000	0.000	0.000	1.030	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     ORG-N   ORGN CONV       NH3       NH3      PHOS     DENIT
                               DECA      SETT  TO NH3 SRCE     DECA      SRCE      SRCE      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   TC       0.000     0.100     0.000     0.000
COEF-4           2   TC       0.000     0.100     0.000     0.000
COEF-4           3   LB       0.000     0.100     0.000     0.000
COEF-4           4   BB       0.000     0.100     0.000     0.000
COEF-4           5   HC       0.000     0.100     0.000     0.000
COEF-4           6   HC       0.000     0.100     0.000     0.000
COEF-4           7   HC       0.000     0.100     0.000     0.000
COEF-4           8   BB       0.000     0.100     0.000     0.000
COEF-4           9   GB       0.000     0.360     0.000     0.000
COEF-4          10   GB       0.000     0.360     0.000     0.000
COEF-4          11   GB       0.000     0.360     0.000     0.000
COEF-4          12   GB       0.000     0.360     0.000     0.000
COEF-4          13   GB       0.000     0.360     0.000     0.000
COEF-4          14   GB       0.000     0.360     0.000     0.000
COEF-4          15   GB       0.000     0.360     0.000     0.000
COEF-4          16   GB       0.000     0.360     0.000     0.000
COEF-4          17   GB       0.000     0.360     0.000     0.000
COEF-4          18   BB       0.000     0.100     0.000     0.000
COEF-4          19   BB       0.000     0.100     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	TC	34.00	0.00	0.00	13.00	0.00	0.00
NONPOINT	2	TC	17.00	0.00	0.00	6.00	0.00	0.00
NONPOINT	3	LB	8838.00	0.00	0.00	3128.00	0.00	0.00
NONPOINT	4	BB	183.00	0.00	0.00	42.00	0.00	0.00
NONPOINT	5	HC	55.00	0.00	0.00	17.00	0.00	0.00
NONPOINT	6	HC	72.00	0.00	0.00	10.00	0.00	0.00
NONPOINT	7	HC	156.00	0.00	0.00	31.00	0.00	0.00
NONPOINT	8	BB	60.00	0.00	0.00	40.00	0.00	0.00
NONPOINT	9	GB	14.00	0.00	0.00	24.00	0.00	0.00
NONPOINT	10	GB	20.00	0.00	0.00	31.00	0.00	0.00
NONPOINT	11	GB	0.00	0.00	0.00	27.00	0.00	0.00
NONPOINT	12	GB	0.00	0.00	0.00	21.00	0.00	0.00
NONPOINT	13	GB	0.00	0.00	0.00	27.00	0.00	0.00
NONPOINT	14	GB	0.00	0.00	0.00	58.00	0.00	0.00
NONPOINT	15	GB	0.00	0.00	0.00	44.00	0.00	0.00
NONPOINT	16	GB	0.00	0.00	0.00	46.00	0.00	0.00
NONPOINT	17	GB	0.00	0.00	0.00	224.00	0.00	0.00
NONPOINT	18	BB	89.00	0.00	0.00	18.00	0.00	0.00
NONPOINT	19	BB	205.00	0.00	0.00	76.00	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	Theriot Canal	0	0.00300	0.106	0.00	0.00	17.500	288.400
HDWTR-1	134	Halpin Canal	0	0.00300	0.106	0.00	0.00	29.100	245.200
HDWTR-1	304	Grand Bayou	0	0.00300	0.106	0.00	0.00	12.100	143.000

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	Theriot Canal	6.92	5.99	0.00	0.00	0.00	0.00
HDWTR-2	134	Halpin Canal	6.92	6.59	0.00	0.00	0.00	0.00
HDWTR-2	304	Grand Bayou	6.92	6.94	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	Theriot Canal	0.00	0.00	0.00	0.96
HDWTR-3	134	Halpin Canal	0.00	0.00	0.00	1.17
HWDTR-3	304	Grand Bayou	0.00	0.00	0.00	2.06

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME
JUNCTION	289	133	7.50	Halpin Canal
JUNCTION	524	303	6.00	Grand Bayou

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	104	10.50	Bowie Canal	0.00300	0.10593	0.068	0.00	0.00	36.600	199.200
WSTLD-1	204	8.50	Pitre Lening	0.00300	0.10593	0.068	0.00	0.00	24.200	201.400
WSTLD-1	227	6.20	Unnamed	0.00300	0.10593	0.068	0.00	0.00	24.200	201.400
WSTLD-1	327	19.70	Bayou Onion	0.00300	0.10593	0.068	0.00	0.00	19.400	207.700

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	104	Bowie Canal	6.92	7.64	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	204	Pitre Lening	6.92	6.53	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	227	Unnamed	6.92	6.53	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	327	Bayou Onion	6.92	6.93	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	104	Bowie Canal	0.00	0.00	0.00	1.36
WSTLD-3	204	Pitre Lening	0.00	0.00	0.00	1.35
WSTLD-3	227	Unnamed	0.00	0.00	0.00	1.35
WSTLD-3	327	Bayou Onion	0.00	0.00	0.00	2.07

ENDATA26

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

CARD TYPE	CONSTITUENT	CONCENTRATION

```
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  2  3  4  8 18 19
NUMBER OF REACHES IN PLOT 2 =   3
PLOT RCH  5  6  7
NUMBER OF REACHES IN PLOT 3 =   9
PLOT RCH  9 10 11 12 13 14 15 16 17
ENDATA30

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


OVERLAY 1 MS_proj.ovl                       Main Stem
OVERLAY 2 HAL_proj.ovl                      Halpin Canal
OVERLAY 3 GB_proj.ovl                       Grand Bayou
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  30 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 Theriot Canal

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	0.00	0.00	6.92	5.99	0.00	0.00	0.00	0.00							
20.70	0.00300	29.00	0.11	4.32	6.45	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
20.60	0.00300	29.00	0.11	3.93	6.76	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
20.50	0.00300	29.00	0.11	3.85	6.98	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
20.40	0.00300	29.00	0.11	3.82	7.12	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
20.30	0.00300	29.00	0.11	3.81	7.22	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
20.20	0.00300	29.00	0.11	3.80	7.28	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
20.10	0.00300	29.00	0.11	3.80	7.33	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
20.00	0.00300	29.00	0.11	3.80	7.36	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
19.90	0.00300	29.00	0.11	3.79	7.38	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
19.80	0.00300	29.00	0.11	3.79	7.39	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
19.70	0.00300	29.00	0.11	3.79	7.40	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
19.60	0.00300	29.00	0.11	3.79	7.41	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
19.50	0.00300	29.00	0.11	3.79	7.41	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
19.40	0.00300	29.00	0.11	3.79	7.41	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
19.30	0.00300	29.00	0.11	3.79	7.41	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
19.20	0.00300	29.00	0.11	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
19.10	0.00300	29.00	0.11	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
19.00	0.00300	29.00	0.11	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
18.90	0.00300	29.00	0.11	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
18.80	0.00300	29.00	0.11	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
18.70	0.00300	29.00	0.11	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
18.60	0.00300	29.00	0.11	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
18.50	0.00300	29.00	0.11	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
18.40	0.00300	29.00	0.11	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
18.30	0.00300	29.00	0.10	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
18.20	0.00300	29.00	0.10	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
18.10	0.00300	29.00	0.10	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
18.00	0.00300	29.00	0.10	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
17.90	0.00300	29.00	0.10	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
17.80	0.00300	29.00	0.10	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
17.70	0.00300	29.00	0.10	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
17.60	0.00300	29.00	0.10	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
17.50	0.00300	29.00	0.10	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
17.40	0.00300	29.00	0.10	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
17.30	0.00300	29.00	0.10	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
17.20	0.00300	29.00	0.10	3.79	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.47
17.10	0.00300	29.00	0.10	3.80	7.42	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	2.46
17.00	0.00300	29.00	0.10	4.41	8.53	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
16.90	0.00300	29.00	0.10	4.45	9.33	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
16.80	0.00300	29.00	0.10	4.40	9.91	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
16.70	0.00300	29.00	0.10	4.35	10.33	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
16.60	0.00300	29.00	0.10	4.32	10.63	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
16.50	0.00300	29.00	0.10	4.29	10.85	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
16.40	0.00300	29.00	0.10	4.27	11.01	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
16.30	0.00300	29.00	0.10	4.26	11.12	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
16.20	0.00300	29.00	0.10	4.25	11.20	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
16.10	0.00300	29.00	0.10	4.25	11.26	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
16.00	0.00300	29.00	0.10	4.24	11.31	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
15.90	0.00300	29.00	0.10	4.24	11.34	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64

15.80	0.00300	29.00	0.10	4.24	11.36	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
15.70	0.00300	29.00	0.10	4.23	11.38	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
15.60	0.00300	29.00	0.10	4.23	11.39	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.64
15.50	0.00300	29.00	0.10	4.94	10.32	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
15.40	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
15.30	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
15.20	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
15.10	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
15.00	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
14.90	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
14.80	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
14.70	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
14.60	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
14.50	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
14.40	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
14.30	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
14.20	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
14.10	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
14.00	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
13.90	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
13.80	0.00300	29.00	0.10	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
13.70	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
13.60	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
13.50	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
13.40	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
13.30	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
13.20	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
13.10	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
13.00	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
12.90	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
12.80	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
12.70	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
12.60	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
12.50	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
12.40	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
12.30	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
12.20	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
12.10	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
12.00	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
11.90	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
11.80	0.00300	29.00	0.09	4.94	10.31	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.35
11.70	0.00300	29.00	0.09	4.07	7.45	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
11.60	0.00300	29.00	0.09	4.20	6.65	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
11.50	0.00300	29.00	0.09	4.25	6.43	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
11.40	0.00300	29.00	0.09	4.27	6.37	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
11.30	0.00300	29.00	0.09	4.27	6.35	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
11.20	0.00300	29.00	0.09	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
11.10	0.00300	29.00	0.09	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
11.00	0.00300	29.00	0.09	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
10.90	0.00300	29.00	0.09	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
10.80	0.00300	29.00	0.09	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
10.70	0.00300	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
10.60	0.00300	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
10.50	0.00300	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
10.40	0.00600	29.00	0.10	4.37	6.63	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
10.30	0.00600	29.00	0.10	4.26	6.47	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59

10.20	0.00600	29.00	0.10	4.27	6.40	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
10.10	0.00600	29.00	0.10	4.27	6.37	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
10.00	0.00600	29.00	0.10	4.28	6.35	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
9.90	0.00600	29.00	0.10	4.28	6.35	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
9.80	0.00600	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
9.70	0.00600	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
9.60	0.00600	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
9.50	0.00600	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
9.40	0.00600	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
9.30	0.00600	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
9.20	0.00600	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
9.10	0.00600	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
9.00	0.00600	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
8.90	0.00600	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
8.80	0.00600	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
8.70	0.00600	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
8.60	0.00600	29.00	0.10	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
8.50	0.00600	29.00	0.11	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
8.40	0.00600	29.00	0.11	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
8.30	0.00600	29.00	0.11	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
8.20	0.00600	29.00	0.11	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
8.10	0.00600	29.00	0.11	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
8.00	0.00600	29.00	0.11	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
7.90	0.00600	29.00	0.11	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
7.80	0.00600	29.00	0.11	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
7.70	0.00600	29.00	0.11	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
7.60	0.00600	29.00	0.11	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
7.50	0.00600	29.00	0.11	4.28	6.34	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.59
7.40	0.01500	29.00	0.11	4.63	6.51	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
7.30	0.01500	29.00	0.11	4.68	6.08	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
7.20	0.01500	29.00	0.11	4.70	5.80	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
7.10	0.01500	29.00	0.11	4.71	5.63	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
7.00	0.01500	29.00	0.11	4.72	5.52	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
6.90	0.01500	29.00	0.11	4.73	5.45	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
6.80	0.01500	29.00	0.11	4.74	5.40	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
6.70	0.01500	29.00	0.10	4.74	5.37	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
6.60	0.01500	29.00	0.10	4.75	5.36	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
6.50	0.01500	29.00	0.10	4.75	5.35	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
6.40	0.01500	29.00	0.10	4.75	5.34	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
6.30	0.01500	29.00	0.10	4.75	5.33	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
6.20	0.01500	29.00	0.10	4.75	5.33	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
6.10	0.01500	29.00	0.10	4.75	5.33	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
6.00	0.01500	29.00	0.10	4.75	5.33	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.71
5.90	0.02100	29.00	0.10	4.32	4.19	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57
5.80	0.02100	29.00	0.10	4.28	4.41	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57
5.70	0.02100	29.00	0.10	4.29	4.53	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57
5.60	0.02100	29.00	0.10	4.29	4.61	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57
5.50	0.02100	29.00	0.10	4.29	4.65	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57
5.40	0.02100	29.00	0.10	4.29	4.67	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57
5.30	0.02100	29.00	0.10	4.29	4.69	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57
5.20	0.02100	29.00	0.10	4.29	4.69	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57
5.10	0.02100	29.00	0.10	4.29	4.70	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57
5.00	0.02100	29.00	0.10	4.29	4.70	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57
4.90	0.02100	29.00	0.10	4.29	4.70	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57
4.80	0.02100	29.00	0.10	4.29	4.70	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57
4.70	0.02100	29.00	0.10	4.29	4.70	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57

4.60	0.02100	29.00	0.10	4.29	4.70	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	1.57
4.50	0.02100	29.00	0.10	4.05	4.12	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
4.40	0.02100	29.00	0.10	4.04	3.79	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
4.30	0.02100	29.00	0.10	4.07	3.60	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
4.20	0.02100	29.00	0.10	4.10	3.49	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
4.10	0.02100	29.00	0.10	4.12	3.42	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
4.00	0.02100	29.00	0.10	4.13	3.39	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
3.90	0.02100	29.00	0.10	4.14	3.36	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
3.80	0.02100	29.00	0.10	4.14	3.35	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
3.70	0.02100	29.00	0.10	4.14	3.35	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
3.60	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
3.50	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
3.40	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
3.30	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
3.20	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
3.10	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
3.00	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
2.90	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
2.80	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
2.70	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
2.60	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
2.50	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
2.40	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
2.30	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
2.20	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
2.10	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
2.00	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
1.90	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
1.80	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
1.70	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
1.60	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
1.50	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
1.40	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
1.30	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
1.20	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
1.10	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
1.00	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
0.90	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
0.80	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
0.70	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
0.60	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
0.50	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
0.40	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
0.30	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
0.20	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
0.10	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82
0.00	0.02100	29.00	0.10	4.15	3.34	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.82

CONDENSED CAPSULE SUMMARY FOR Halpin Canal

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	0.00	0.00	6.92	6.59	0.00	0.00	0.00	0.00							

15.40	0.00300	29.00	0.12	3.86	5.48	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
15.30	0.00300	29.00	0.12	3.56	4.83	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
15.20	0.00300	29.00	0.12	3.56	4.45	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
15.10	0.00300	29.00	0.12	3.59	4.23	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
15.00	0.00300	29.00	0.12	3.60	4.11	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
14.90	0.00300	29.00	0.12	3.61	4.03	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
14.80	0.00300	29.00	0.12	3.62	3.99	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
14.70	0.00300	29.00	0.12	3.62	3.96	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
14.60	0.00300	29.00	0.12	3.62	3.95	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
14.50	0.00300	29.00	0.12	3.62	3.94	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
14.40	0.00300	29.00	0.12	3.62	3.94	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
14.30	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
14.20	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
14.10	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
14.00	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
13.90	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
13.80	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
13.70	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
13.60	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
13.50	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
13.40	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
13.30	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
13.20	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
13.10	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
13.00	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
12.90	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
12.80	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
12.70	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
12.60	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
12.50	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
12.40	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
12.30	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
12.20	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
12.10	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
12.00	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
11.90	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
11.80	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
11.70	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
11.60	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
11.50	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
11.40	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
11.30	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
11.20	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
11.10	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
11.00	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
10.90	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
10.80	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
10.70	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
10.60	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
10.50	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
10.40	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
10.30	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
10.20	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
10.10	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
10.00	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
9.90	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78

9.80	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
9.70	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
9.60	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
9.50	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
9.40	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
9.30	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
9.20	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
9.10	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
9.00	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
8.90	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
8.80	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
8.70	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
8.60	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
8.50	0.00300	29.00	0.12	3.63	3.93	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
8.40	0.00600	29.00	0.12	3.90	4.89	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
8.30	0.00600	29.00	0.12	3.62	4.63	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
8.20	0.00600	29.00	0.12	3.59	4.45	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
8.10	0.00600	29.00	0.12	3.59	4.31	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
8.00	0.00600	29.00	0.12	3.60	4.21	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	2.78
7.90	0.00600	29.00	0.12	5.12	6.97	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
7.80	0.00600	29.00	0.12	5.23	8.79	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
7.70	0.00600	29.00	0.12	5.12	10.00	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
7.60	0.00600	29.00	0.12	5.00	10.80	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
7.50	0.00600	29.00	0.12	4.91	11.34	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
7.40	0.00600	29.00	0.12	4.85	11.69	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
7.30	0.00600	29.00	0.12	4.82	11.92	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
7.20	0.00600	29.00	0.12	4.79	12.07	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
7.10	0.00600	29.00	0.12	4.77	12.17	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
7.00	0.00600	29.00	0.12	4.76	12.24	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
6.90	0.00600	29.00	0.12	4.75	12.29	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
6.80	0.00600	29.00	0.12	4.75	12.32	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
6.70	0.00600	29.00	0.12	4.75	12.34	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
6.60	0.00600	29.00	0.12	4.74	12.35	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
6.50	0.00600	29.00	0.12	4.74	12.36	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
6.40	0.00600	29.00	0.12	4.74	12.36	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
6.30	0.00600	29.00	0.12	4.74	12.37	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
6.20	0.00600	29.00	0.12	4.74	12.37	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
6.10	0.00900	29.00	0.12	5.09	10.92	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
6.00	0.00900	29.00	0.12	4.95	11.29	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
5.90	0.00900	29.00	0.12	4.88	11.56	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
5.80	0.00900	29.00	0.12	4.84	11.77	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.76
5.70	0.00900	29.00	0.12	4.23	10.54	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
5.60	0.00900	29.00	0.12	4.16	9.69	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
5.50	0.00900	29.00	0.12	4.22	9.10	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
5.40	0.00900	29.00	0.12	4.30	8.69	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
5.30	0.00900	29.00	0.12	4.35	8.41	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
5.20	0.00900	29.00	0.12	4.40	8.21	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
5.10	0.00900	29.00	0.12	4.43	8.08	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
5.00	0.00900	29.00	0.12	4.45	7.98	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
4.90	0.00900	29.00	0.12	4.46	7.92	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
4.80	0.00900	29.00	0.12	4.47	7.87	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
4.70	0.00900	29.00	0.12	4.48	7.84	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
4.60	0.00900	29.00	0.12	4.48	7.82	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
4.50	0.00900	29.00	0.12	4.49	7.81	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
4.40	0.00900	29.00	0.12	4.49	7.80	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
4.30	0.00900	29.00	0.12	4.49	7.79	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20

4.20	0.00900	29.00	0.12	4.49	7.78	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
4.10	0.00900	29.00	0.12	4.49	7.78	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
4.00	0.00900	29.00	0.12	4.49	7.78	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
3.90	0.00900	29.00	0.12	4.49	7.78	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
3.80	0.00900	29.00	0.12	4.49	7.78	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
3.70	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
3.60	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
3.50	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
3.40	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
3.30	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
3.20	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
3.10	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
3.00	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
2.90	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
2.80	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
2.70	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
2.60	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
2.50	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
2.40	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
2.30	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
2.20	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
2.10	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
2.00	0.00900	29.00	0.12	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
1.90	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
1.80	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
1.70	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
1.60	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
1.50	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
1.40	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
1.30	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
1.20	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
1.10	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
1.00	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
0.90	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
0.80	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
0.70	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
0.60	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
0.50	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
0.40	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
0.30	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
0.20	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
0.10	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20
0.00	0.00900	29.00	0.11	4.49	7.77	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.20

CONDENSED CAPSULE SUMMARY FOR Grand Bayou

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	0.00	0.00	6.92	6.94	0.00	0.00	0.00	0.00							
21.90	0.00300	29.00	0.08	4.19	6.00	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
21.80	0.00300	29.00	0.08	3.96	5.40	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
21.70	0.00300	29.00	0.08	3.98	5.01	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
21.60	0.00300	29.00	0.08	4.01	4.77	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97

21.50	0.00300	29.00	0.08	4.03	4.61	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
21.40	0.00300	29.00	0.08	4.04	4.51	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
21.30	0.00300	29.00	0.08	4.04	4.45	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
21.20	0.00300	29.00	0.08	4.05	4.41	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
21.10	0.00300	29.00	0.08	4.05	4.38	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
21.00	0.00300	29.00	0.08	4.05	4.36	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
20.90	0.00300	29.00	0.08	4.05	4.35	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
20.80	0.00300	29.00	0.08	4.05	4.35	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
20.70	0.00300	29.00	0.08	4.06	4.34	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
20.60	0.00300	29.00	0.08	4.06	4.34	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
20.50	0.00300	29.00	0.08	4.06	4.34	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
20.40	0.00300	29.00	0.08	4.06	4.34	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
20.30	0.00300	29.00	0.08	4.06	4.34	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
20.20	0.00300	29.00	0.08	4.06	4.34	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
20.10	0.00300	29.00	0.08	4.06	4.33	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
20.00	0.00300	29.00	0.08	4.06	4.33	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
19.90	0.00300	29.00	0.08	4.06	4.33	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
19.80	0.00300	29.00	0.08	4.06	4.33	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.97
19.70	0.00300	29.00	0.08	3.68	3.05	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
19.60	0.00600	29.00	0.08	3.75	3.80	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
19.50	0.00600	29.00	0.08	3.68	3.11	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
19.40	0.00600	29.00	0.08	3.73	2.71	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
19.30	0.00600	29.00	0.08	3.77	2.48	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
19.20	0.00600	29.00	0.08	3.79	2.34	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
19.10	0.00600	29.00	0.08	3.80	2.26	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
19.00	0.00600	29.00	0.08	3.81	2.21	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
18.90	0.00600	29.00	0.08	3.82	2.19	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
18.80	0.00600	29.00	0.08	3.82	2.17	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
18.70	0.00600	29.00	0.08	3.82	2.16	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
18.60	0.00600	29.00	0.08	3.82	2.16	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
18.50	0.00600	29.00	0.08	3.82	2.15	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
18.40	0.00600	29.00	0.08	3.82	2.15	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
18.30	0.00600	29.00	0.08	3.82	2.15	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
18.20	0.00600	29.00	0.08	3.82	2.15	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
18.10	0.00600	29.00	0.08	3.82	2.15	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
18.00	0.00600	29.00	0.08	3.82	2.15	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
17.90	0.00600	29.00	0.08	3.82	2.15	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
17.80	0.00600	29.00	0.08	3.82	2.15	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
17.70	0.00600	29.00	0.08	3.82	2.15	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
17.60	0.00600	29.00	0.08	3.82	2.15	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
17.50	0.00600	29.00	0.08	3.82	2.15	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
17.40	0.00600	29.00	0.08	3.82	2.15	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
17.30	0.00600	29.00	0.08	3.82	2.15	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.41
17.20	0.00600	29.00	0.08	3.51	1.45	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
17.10	0.00600	29.00	0.08	3.48	0.98	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
17.00	0.00600	29.00	0.08	3.50	0.67	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
16.90	0.00600	29.00	0.08	3.52	0.45	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
16.80	0.00600	29.00	0.08	3.54	0.30	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
16.70	0.00600	29.00	0.08	3.55	0.21	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
16.60	0.00600	29.00	0.08	3.56	0.14	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
16.50	0.00600	29.00	0.08	3.56	0.09	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
16.40	0.00600	29.00	0.08	3.57	0.06	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
16.30	0.00600	29.00	0.08	3.57	0.04	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
16.20	0.00600	29.00	0.08	3.57	0.03	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
16.10	0.00600	29.00	0.08	3.57	0.02	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
16.00	0.00600	29.00	0.08	3.57	0.01	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86

15.90	0.00600	29.00	0.08	3.58	0.01	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
15.80	0.00600	29.00	0.08	3.58	0.01	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
15.70	0.00600	29.00	0.08	3.58	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
15.60	0.00600	29.00	0.08	3.58	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
15.50	0.00600	29.00	0.08	3.58	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
15.40	0.00600	29.00	0.08	3.58	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
15.30	0.00600	29.00	0.08	3.58	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
15.20	0.00600	29.00	0.08	3.58	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
15.10	0.00600	29.00	0.08	3.58	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
15.00	0.00600	29.00	0.08	3.58	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
14.90	0.00600	29.00	0.08	3.58	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	2.86
14.80	0.00600	29.00	0.08	3.56	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
14.70	0.00600	29.00	0.08	3.56	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
14.60	0.00600	29.00	0.08	3.56	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
14.50	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
14.40	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
14.30	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
14.20	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
14.10	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
14.00	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
13.90	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
13.80	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
13.70	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
13.60	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
13.50	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
13.40	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
13.30	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
13.20	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
13.10	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
13.00	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
12.90	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
12.80	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
12.70	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
12.60	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
12.50	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
12.40	0.00600	29.00	0.08	3.57	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	2.87
12.30	0.00600	29.00	0.08	3.70	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
12.20	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
12.10	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
12.00	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
11.90	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
11.80	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
11.70	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
11.60	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
11.50	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
11.40	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
11.30	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
11.20	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
11.10	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
11.00	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
10.90	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
10.80	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
10.70	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
10.60	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
10.50	0.00600	29.00	0.08	3.71	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	2.63
10.40	0.00600	29.00	0.08	4.02	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04

10.30	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
10.20	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
10.10	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
10.00	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
9.90	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
9.80	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
9.70	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
9.60	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
9.50	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
9.40	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
9.30	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
9.20	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
9.10	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
9.00	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
8.90	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
8.80	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
8.70	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
8.60	0.00600	29.00	0.08	4.03	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	2.04
8.50	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
8.40	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
8.30	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
8.20	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
8.10	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
8.00	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
7.90	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
7.80	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
7.70	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
7.60	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
7.50	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
7.40	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
7.30	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
7.20	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
7.10	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
7.00	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
6.90	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
6.80	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
6.70	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
6.60	0.00600	29.00	0.08	3.86	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	2.34
6.50	0.00600	29.00	0.08	3.91	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
6.40	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
6.30	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
6.20	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
6.10	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
6.00	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
5.90	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
5.80	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
5.70	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
5.60	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
5.50	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
5.40	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
5.30	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
5.20	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
5.10	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
5.00	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
4.90	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26
4.80	0.00600	29.00	0.08	3.90	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	2.26

4.70	0.00600	29.00	0.08	4.47	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
4.60	0.00600	29.00	0.08	4.52	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
4.50	0.00600	29.00	0.08	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
4.40	0.00600	29.00	0.08	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
4.30	0.00600	29.00	0.08	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
4.20	0.00600	29.00	0.08	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
4.10	0.00600	29.00	0.08	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
4.00	0.00600	29.00	0.08	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
3.90	0.00600	29.00	0.08	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
3.80	0.00600	29.00	0.08	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
3.70	0.00600	29.00	0.08	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
3.60	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
3.50	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
3.40	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
3.30	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
3.20	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
3.10	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
3.00	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
2.90	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
2.80	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
2.70	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
2.60	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
2.50	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
2.40	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
2.30	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
2.20	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
2.10	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
2.00	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
1.90	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
1.80	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
1.70	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
1.60	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
1.50	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
1.40	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
1.30	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
1.20	0.00600	29.00	0.09	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
1.10	0.00600	29.00	0.10	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
1.00	0.00600	29.00	0.10	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
0.90	0.00600	29.00	0.10	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
0.80	0.00600	29.00	0.10	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
0.70	0.00600	29.00	0.10	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
0.60	0.00600	29.00	0.10	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
0.50	0.00600	29.00	0.10	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
0.40	0.00600	29.00	0.10	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
0.30	0.00600	29.00	0.10	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
0.20	0.00600	29.00	0.10	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
0.10	0.00600	29.00	0.10	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13
0.00	0.00600	29.00	0.10	4.53	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	1.13

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 1 Theriot Canal Summer Projection Natural (no man made loads) condtions

********** 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	0.00	0.00	17.50	288.40	6.92	5.99	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96

********** 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	20.80	20.70	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
2	20.70	20.60	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
3	20.60	20.50	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
4	20.50	20.40	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
5	20.40	20.30	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
6	20.30	20.20	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
7	20.20	20.10	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
8	20.10	20.00	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
9	20.00	19.90	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
10	19.90	19.80	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
11	19.80	19.70	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
12	19.70	19.60	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
13	19.60	19.50	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
14	19.50	19.40	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
15	19.40	19.30	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
16	19.30	19.20	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
17	19.20	19.10	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
18	19.10	19.00	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
19	19.00	18.90	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
20	18.90	18.80	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
21	18.80	18.70	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
22	18.70	18.60	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
23	18.60	18.50	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
24	18.50	18.40	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
25	18.40	18.30	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
26	18.30	18.20	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
27	18.20	18.10	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
28	18.10	18.00	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
29	18.00	17.90	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
30	17.90	17.80	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
31	17.80	17.70	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
32	17.70	17.60	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
33	17.60	17.50	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
34	17.50	17.40	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
35	17.40	17.30	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
36	17.30	17.20	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
37	17.20	17.10	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
TOT						167.07			43304.79	77330.00					
AVG					0.00026		0.56	20.90			11.70				
CUM						167.07									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	20.700	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
2	20.600	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
3	20.500	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
4	20.400	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
5	20.300	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
6	20.200	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
7	20.100	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
8	20.000	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
9	19.900	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
10	19.800	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
11	19.700	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
12	19.600	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
13	19.500	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
14	19.400	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
15	19.300	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
16	19.200	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
17	19.100	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
18	19.000	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
19	18.900	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
20	18.800	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
21	18.700	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
22	18.600	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
23	18.500	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
24	18.400	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
25	18.300	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
26	18.200	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
27	18.100	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
28	18.000	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
29	17.900	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
30	17.800	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
31	17.700	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
32	17.600	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
33	17.500	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
34	17.400	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
35	17.300	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
36	17.200	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
37	17.100	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	2.47	2.47	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			1.19	0.07	0.00	0.00	0.00	0.00	0.00	1.40			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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	20.700	29.00	0.11	17.50	288.40	4.32	6.45	0.00	6.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27
2	20.600	29.00	0.11	17.50	288.40	3.93	6.76	0.00	6.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.43
3	20.500	29.00	0.11	17.50	288.40	3.85	6.98	0.00	6.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52

4	20.400	29.00	0.11	17.50	288.40	3.82	7.12	0.00	7.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.57
5	20.300	29.00	0.11	17.50	288.40	3.81	7.22	0.00	7.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.60
6	20.200	29.00	0.11	17.50	288.40	3.80	7.28	0.00	7.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.61
7	20.100	29.00	0.11	17.50	288.40	3.80	7.33	0.00	7.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.62
8	20.000	29.00	0.11	17.50	288.40	3.80	7.36	0.00	7.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
9	19.900	29.00	0.11	17.50	288.40	3.79	7.38	0.00	7.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
10	19.800	29.00	0.11	17.50	288.40	3.79	7.39	0.00	7.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
11	19.700	29.00	0.11	17.50	288.40	3.79	7.40	0.00	7.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
12	19.600	29.00	0.11	17.50	288.40	3.79	7.41	0.00	7.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
13	19.500	29.00	0.11	17.50	288.40	3.79	7.41	0.00	7.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
14	19.400	29.00	0.11	17.50	288.40	3.79	7.41	0.00	7.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
15	19.300	29.00	0.11	17.50	288.40	3.79	7.41	0.00	7.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
16	19.200	29.00	0.11	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
17	19.100	29.00	0.11	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
18	19.000	29.00	0.11	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
19	18.900	29.00	0.11	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
20	18.800	29.00	0.11	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
21	18.700	29.00	0.11	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
22	18.600	29.00	0.11	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
23	18.500	29.00	0.11	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
24	18.400	29.00	0.11	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
25	18.300	29.00	0.10	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
26	18.200	29.00	0.10	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
27	18.100	29.00	0.10	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
28	18.000	29.00	0.10	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
29	17.900	29.00	0.10	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
30	17.800	29.00	0.10	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
31	17.700	29.00	0.10	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
32	17.600	29.00	0.10	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
33	17.500	29.00	0.10	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
34	17.400	29.00	0.10	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
35	17.300	29.00	0.10	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
36	17.200	29.00	0.10	17.50	288.40	3.79	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
37	17.100	29.00	0.10	17.50	288.40	3.80	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 2 Theriot Canal Summer Projection Natural (no man made loads) condtions

********** 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
38	UPR RCH	0.00300	29.00	0.10	17.50	288.40	3.80	7.42	0.00	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63

********** 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
38	17.10	17.00	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
39	17.00	16.90	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000

40	16.90	16.80	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
41	16.80	16.70	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
42	16.70	16.60	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
43	16.60	16.50	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
44	16.50	16.40	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
45	16.40	16.30	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
46	16.30	16.20	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
47	16.20	16.10	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
48	16.10	16.00	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
49	16.00	15.90	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
50	15.90	15.80	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
51	15.80	15.70	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
52	15.70	15.60	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
TOT						54.28			14070.00	21000.00					
AVG					0.00032		0.67	14.00			9.38				
CUM						221.35									

********** 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
38	17.000	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
39	16.900	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
40	16.800	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
41	16.700	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
42	16.600	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
43	16.500	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
44	16.400	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
45	16.300	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
46	16.200	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
47	16.100	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
48	16.000	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
49	15.900	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
50	15.800	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
51	15.700	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
52	15.600	7.69	1.18	0.11	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	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.93			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
38	17.000	29.00	0.10	17.50	288.40	4.41	8.53	0.00	8.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.91
39	16.900	29.00	0.10	17.50	288.40	4.45	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.07
40	16.800	29.00	0.10	17.50	288.40	4.40	9.91	0.00	9.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.17
41	16.700	29.00	0.10	17.50	288.40	4.35	10.33	0.00	10.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.23
42	16.600	29.00	0.10	17.50	288.40	4.32	10.63	0.00	10.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.27

43	16.500	29.00	0.10	17.50	288.40	4.29	10.85	0.00	10.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.29
44	16.400	29.00	0.10	17.50	288.40	4.27	11.01	0.00	11.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.30
45	16.300	29.00	0.10	17.50	288.40	4.26	11.12	0.00	11.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.31
46	16.200	29.00	0.10	17.50	288.40	4.25	11.20	0.00	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.31
47	16.100	29.00	0.10	17.50	288.40	4.25	11.26	0.00	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.32
48	16.000	29.00	0.10	17.50	288.40	4.24	11.31	0.00	11.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.32
49	15.900	29.00	0.10	17.50	288.40	4.24	11.34	0.00	11.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.32
50	15.800	29.00	0.10	17.50	288.40	4.24	11.36	0.00	11.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.32
51	15.700	29.00	0.10	17.50	288.40	4.23	11.38	0.00	11.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.32
52	15.600	29.00	0.10	17.50	288.40	4.23	11.39	0.00	11.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.32

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 3 Lake Boeuf Summer Projection Natural (no man made loads) condtions

********** 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
53	UPR RCH	0.00300	29.00	0.10	17.50	288.40	4.23	11.39	0.00	11.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.32

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
53	15.60	15.50	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
54	15.50	15.40	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
55	15.40	15.30	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
56	15.30	15.20	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
57	15.20	15.10	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
58	15.10	15.00	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
59	15.00	14.90	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
60	14.90	14.80	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
61	14.80	14.70	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
62	14.70	14.60	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
63	14.60	14.50	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
64	14.50	14.40	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
65	14.40	14.30	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
66	14.30	14.20	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
67	14.20	14.10	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
68	14.10	14.00	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
69	14.00	13.90	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
70	13.90	13.80	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
71	13.80	13.70	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
72	13.70	13.60	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
73	13.60	13.50	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
74	13.50	13.40	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
75	13.40	13.30	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
76	13.30	13.20	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
77	13.20	13.10	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
78	13.10	13.00	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000

79	13.00	12.90	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
80	12.90	12.80	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
81	12.80	12.70	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
82	12.70	12.60	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
83	12.60	12.50	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
84	12.50	12.40	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
85	12.40	12.30	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
86	12.30	12.20	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
87	12.20	12.10	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
88	12.10	12.00	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
89	12.00	11.90	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
90	11.90	11.80	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
TOT						31264.37			8103728.00	6642400.00					
AVG					0.00000		1.22	1748.00			2132.56				
CUM						31485.72									

********** 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
53	15.500	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
54	15.400	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
55	15.300	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
56	15.200	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
57	15.100	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
58	15.000	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
59	14.900	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
60	14.800	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
61	14.700	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
62	14.600	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
63	14.500	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
64	14.400	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
65	14.300	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
66	14.200	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
67	14.100	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
68	14.000	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
69	13.900	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
70	13.800	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
71	13.700	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
72	13.600	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
73	13.500	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
74	13.400	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
75	13.300	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
76	13.200	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
77	13.100	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
78	13.000	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
79	12.900	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
80	12.800	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
81	12.700	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
82	12.600	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
83	12.500	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
84	12.400	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00

85	12.300	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
86	12.200	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
87	12.100	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
88	12.000	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
89	11.900	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
90	11.800	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.54	0.07	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
53	15.500	29.00	0.10	17.50	288.40	4.94	10.32	0.00	10.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
54	15.400	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
55	15.300	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
56	15.200	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
57	15.100	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
58	15.000	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
59	14.900	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
60	14.800	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
61	14.700	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
62	14.600	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
63	14.500	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
64	14.400	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
65	14.300	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
66	14.200	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
67	14.100	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
68	14.000	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
69	13.900	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
70	13.800	29.00	0.10	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
71	13.700	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
72	13.600	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
73	13.500	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
74	13.400	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
75	13.300	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
76	13.200	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
77	13.100	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
78	13.000	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
79	12.900	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
80	12.800	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
81	12.700	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
82	12.600	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
83	12.500	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
84	12.400	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
85	12.300	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
86	12.200	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
87	12.100	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
88	12.000	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
89	11.900	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
90	11.800	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10

********** 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
91	UPR RCH	0.00300	29.00	0.09	17.50	288.40	4.94	10.31	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10
104	WSTLD	0.00300	0.00	0.00	36.60	199.20	6.92	7.64	0.00	7.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36

********** 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
91	11.80	11.70	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
92	11.70	11.60	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
93	11.60	11.50	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
94	11.50	11.40	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
95	11.40	11.30	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
96	11.30	11.20	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
97	11.20	11.10	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
98	11.10	11.00	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
99	11.00	10.90	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
100	10.90	10.80	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
101	10.80	10.70	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
102	10.70	10.60	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
103	10.60	10.50	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
104	10.50	10.40	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
105	10.40	10.30	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
106	10.30	10.20	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
107	10.20	10.10	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
108	10.10	10.00	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
109	10.00	9.90	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
110	9.90	9.80	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
111	9.80	9.70	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
112	9.70	9.60	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
113	9.60	9.50	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
114	9.50	9.40	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
115	9.40	9.30	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
116	9.30	9.20	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
117	9.20	9.10	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
118	9.10	9.00	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
119	9.00	8.90	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
120	8.90	8.80	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
121	8.80	8.70	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
122	8.70	8.60	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
123	8.60	8.50	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
124	8.50	8.40	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
125	8.40	8.30	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
126	8.30	8.20	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000

127	8.20	8.10	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
128	8.10	8.00	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
129	8.00	7.90	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
130	7.90	7.80	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
131	7.80	7.70	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
132	7.70	7.60	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
133	7.60	7.50	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
TOT						684.89			272625.38	205755.00					
AVG					0.00007		1.33	47.85			63.40				
CUM						32170.63									

********** 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
91	11.700	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
92	11.600	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
93	11.500	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
94	11.400	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
95	11.300	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
96	11.200	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
97	11.100	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
98	11.000	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
99	10.900	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
100	10.800	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
101	10.700	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
102	10.600	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
103	10.500	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
104	10.400	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
105	10.300	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
106	10.200	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
107	10.100	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
108	10.000	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
109	9.900	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
110	9.800	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
111	9.700	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
112	9.600	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
113	9.500	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
114	9.400	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
115	9.300	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
116	9.200	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
117	9.100	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
118	9.000	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
119	8.900	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
120	8.800	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
121	8.700	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
122	8.600	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
123	8.500	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
124	8.400	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
125	8.300	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
126	8.200	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
127	8.100	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00

128	8.000	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
129	7.900	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
130	7.800	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
131	7.700	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
132	7.600	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
133	7.500	7.69	0.59	0.11	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	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.90			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
91	11.700	29.00	0.09	17.50	288.40	4.07	7.45	0.00	7.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.07
92	11.600	29.00	0.09	17.50	288.40	4.20	6.65	0.00	6.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
93	11.500	29.00	0.09	17.50	288.40	4.25	6.43	0.00	6.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
94	11.400	29.00	0.09	17.50	288.40	4.27	6.37	0.00	6.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
95	11.300	29.00	0.09	17.50	288.40	4.27	6.35	0.00	6.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
96	11.200	29.00	0.09	17.50	288.40	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
97	11.100	29.00	0.09	17.50	288.40	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
98	11.000	29.00	0.09	17.50	288.40	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
99	10.900	29.00	0.09	17.50	288.40	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
100	10.800	29.00	0.09	17.50	288.40	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
101	10.700	29.00	0.10	17.50	288.40	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
102	10.600	29.00	0.10	17.50	288.40	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
103	10.500	29.00	0.10	17.50	288.40	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
104	10.400	29.00	0.10	27.05	243.80	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.	0.92
105	10.300	29.00	0.10	27.05	243.80	4.26	6.47	0.00	6.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.86
106	10.200	29.00	0.10	27.05	243.80	4.27	6.40	0.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
107	10.100	29.00	0.10	27.05	243.80	4.27	6.37	0.00	6.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
108	10.000	29.00	0.10	27.05	243.80	4.28	6.35	0.00	6.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
109	9.900	29.00	0.10	27.05	243.80	4.28	6.35	0.00	6.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
110	9.800	29.00	0.10	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
111	9.700	29.00	0.10	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
112	9.600	29.00	0.10	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
113	9.500	29.00	0.10	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
114	9.400	29.00	0.10	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
115	9.300	29.00	0.10	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
116	9.200	29.00	0.10	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
117	9.100	29.00	0.10	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
118	9.000	29.00	0.10	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
119	8.900	29.00	0.10	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
120	8.800	29.00	0.10	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
121	8.700	29.00	0.10	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
122	8.600	29.00	0.10	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
123	8.500	29.00	0.11	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
124	8.400	29.00	0.11	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
125	8.300	29.00	0.11	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
126	8.200	29.00	0.11	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
127	8.100	29.00	0.11	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
128	8.000	29.00	0.11	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
129	7.900	29.00	0.11	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84

130	7.800	29.00	0.11	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
131	7.700	29.00	0.11	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
132	7.600	29.00	0.11	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
133	7.500	29.00	0.11	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 8 Bayou Boeuf Summer Projection Natural (no man made loads) condtions

********** 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
289	UPR RCH	0.00600	29.00	0.11	27.05	243.80	4.28	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84
289	TRIB	0.00900	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89

********** 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
289	7.50	7.40	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
290	7.40	7.30	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
291	7.30	7.20	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
292	7.20	7.10	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
293	7.10	7.00	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
294	7.00	6.90	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
295	6.90	6.80	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
296	6.80	6.70	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
297	6.70	6.60	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
298	6.60	6.50	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
299	6.50	6.40	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
300	6.40	6.30	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
301	6.30	6.20	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
302	6.20	6.10	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
303	6.10	6.00	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
TOT						82.14			106447.51	62250.00					
AVG					0.00021		1.71	41.50			70.97				
CUM						32252.78									

********** 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
289	7.400	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
290	7.300	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
291	7.200	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
292	7.100	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00

293	7.000	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
294	6.900	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
295	6.800	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
296	6.700	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
297	6.600	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
298	6.500	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
299	6.400	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
300	6.300	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
301	6.200	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
302	6.100	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
303	6.000	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.39	0.07	0.00	0.00	0.00	0.00	0.00	0.40			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
289	7.400	29.00	0.11	26.32	227.12	4.63	6.51	0.00	6.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.46
290	7.300	29.00	0.11	26.32	227.12	4.68	6.08	0.00	6.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
291	7.200	29.00	0.11	26.32	227.12	4.70	5.80	0.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.90
292	7.100	29.00	0.11	26.32	227.12	4.71	5.63	0.00	5.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.97
293	7.000	29.00	0.11	26.32	227.12	4.72	5.52	0.00	5.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.01
294	6.900	29.00	0.11	26.32	227.12	4.73	5.45	0.00	5.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.03
295	6.800	29.00	0.11	26.32	227.12	4.74	5.40	0.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.03
296	6.700	29.00	0.10	26.32	227.12	4.74	5.37	0.00	5.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04
297	6.600	29.00	0.10	26.32	227.12	4.75	5.36	0.00	5.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04
298	6.500	29.00	0.10	26.32	227.12	4.75	5.35	0.00	5.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04
299	6.400	29.00	0.10	26.32	227.12	4.75	5.34	0.00	5.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04
300	6.300	29.00	0.10	26.32	227.12	4.75	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04
301	6.200	29.00	0.10	26.32	227.12	4.75	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04
302	6.100	29.00	0.10	26.32	227.12	4.75	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04
303	6.000	29.00	0.10	26.32	227.12	4.75	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04

********** 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
524	UPR RCH	0.01500	29.00	0.10	26.32	227.12	4.75	5.33	0.00	5.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.04
524	TRIB	0.00600	29.00	0.10	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW 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
524	6.00	5.90	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
525	5.90	5.80	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
526	5.80	5.70	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
527	5.70	5.60	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
528	5.60	5.50	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
529	5.50	5.40	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
530	5.40	5.30	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
531	5.30	5.20	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
532	5.20	5.10	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
533	5.10	5.00	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
534	5.00	4.90	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
535	4.90	4.80	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
536	4.80	4.70	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
537	4.70	4.60	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
TOT						98.54			178787.67	96642.00					
AVG					0.00016		1.85	69.03			127.71				
CUM						32351.32									

********** 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
524	5.900	7.69	0.43	0.11	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	0.18	0.00
525	5.800	7.69	0.43	0.11	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	0.18	0.00
526	5.700	7.69	0.43	0.11	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	0.18	0.00
527	5.600	7.69	0.43	0.11	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	0.18	0.00
528	5.500	7.69	0.43	0.11	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	0.18	0.00
529	5.400	7.69	0.43	0.11	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	0.18	0.00
530	5.300	7.69	0.43	0.11	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	0.18	0.00
531	5.200	7.69	0.43	0.11	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	0.18	0.00
532	5.100	7.69	0.43	0.11	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	0.18	0.00
533	5.000	7.69	0.43	0.11	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	0.18	0.00
534	4.900	7.69	0.43	0.11	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	0.18	0.00

535	4.800	7.69	0.43	0.11	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	0.18	0.00
536	4.700	7.69	0.43	0.11	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	0.18	0.00
537	4.600	7.69	0.43	0.11	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	0.18	0.00
AVG 20 DEG C RATE			0.36	0.07	0.00	0.00	0.00	0.00	0.00	0.89			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
524	5.900	29.00	0.10	23.30	212.33	4.32	4.19	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.07
525	5.800	29.00	0.10	23.30	212.33	4.28	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.78
526	5.700	29.00	0.10	23.30	212.33	4.29	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.65
527	5.600	29.00	0.10	23.30	212.33	4.29	4.61	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
528	5.500	29.00	0.10	23.30	212.33	4.29	4.65	0.00	4.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
529	5.400	29.00	0.10	23.30	212.33	4.29	4.67	0.00	4.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.56
530	5.300	29.00	0.10	23.30	212.33	4.29	4.69	0.00	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
531	5.200	29.00	0.10	23.30	212.33	4.29	4.69	0.00	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
532	5.100	29.00	0.10	23.30	212.33	4.29	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
533	5.000	29.00	0.10	23.30	212.33	4.29	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
534	4.900	29.00	0.10	23.30	212.33	4.29	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
535	4.800	29.00	0.10	23.30	212.33	4.29	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
536	4.700	29.00	0.10	23.30	212.33	4.29	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
537	4.600	29.00	0.10	23.30	212.33	4.29	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55

FINAL REPORT Theriot Canal
REACH NO. 19 Bayou Beouf

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Summer Projection Natural (no man made loads) condtions

********** 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
538	UPR RCH	0.02100	29.00	0.10	23.30	212.33	4.29	4.70	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55

********** 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
538	4.60	4.50	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
539	4.50	4.40	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
540	4.40	4.30	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
541	4.30	4.20	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
542	4.20	4.10	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
543	4.10	4.00	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
544	4.00	3.90	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
545	3.90	3.80	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
546	3.80	3.70	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
547	3.70	3.60	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
548	3.60	3.50	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
549	3.50	3.40	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
550	3.40	3.30	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
551	3.30	3.20	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
552	3.20	3.10	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
553	3.10	3.00	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
554	3.00	2.90	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
555	2.90	2.80	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
556	2.80	2.70	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
557	2.70	2.60	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
558	2.60	2.50	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
559	2.50	2.40	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
560	2.40	2.30	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
561	2.30	2.20	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
562	2.20	2.10	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
563	2.10	2.00	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
564	2.00	1.90	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
565	1.90	1.80	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
566	1.80	1.70	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
567	1.70	1.60	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
568	1.60	1.50	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
569	1.50	1.40	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
570	1.40	1.30	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
571	1.30	1.20	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
572	1.20	1.10	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
573	1.10	1.00	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
574	1.00	0.90	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
575	0.90	0.80	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
576	0.80	0.70	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
577	0.70	0.60	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
578	0.60	0.50	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
579	0.50	0.40	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
580	0.40	0.30	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
581	0.30	0.20	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
582	0.20	0.10	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
583	0.10	0.00	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
TOT						320.02			580649.06	288880.00					
AVG					0.00017		2.01	62.80			126.23				
CUM						32671.35									

********** 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
538	4.500	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
539	4.400	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
540	4.300	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
541	4.200	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
542	4.100	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
543	4.000	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
544	3.900	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
545	3.800	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
546	3.700	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
547	3.600	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
548	3.500	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
549	3.400	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
550	3.300	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
551	3.200	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
552	3.100	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
553	3.000	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
554	2.900	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
555	2.800	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
556	2.700	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
557	2.600	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
558	2.500	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
559	2.400	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
560	2.300	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
561	2.200	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
562	2.100	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
563	2.000	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
564	1.900	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
565	1.800	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
566	1.700	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
567	1.600	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
568	1.500	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
569	1.400	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
570	1.300	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
571	1.200	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
572	1.100	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
573	1.000	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
574	0.900	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
575	0.800	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
576	0.700	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
577	0.600	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
578	0.500	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
579	0.400	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
580	0.300	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
581	0.200	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
582	0.100	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
583	0.000	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.33	0.07	0.00	0.00	0.00	0.00	0.00	1.03			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
538	4.500	29.00	0.10	23.30	212.33	4.05	4.12	0.00	4.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.64
539	4.400	29.00	0.10	23.30	212.33	4.04	3.79	0.00	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.68
540	4.300	29.00	0.10	23.30	212.33	4.07	3.60	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
541	4.200	29.00	0.10	23.30	212.33	4.10	3.49	0.00	3.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
542	4.100	29.00	0.10	23.30	212.33	4.12	3.42	0.00	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
543	4.000	29.00	0.10	23.30	212.33	4.13	3.39	0.00	3.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
544	3.900	29.00	0.10	23.30	212.33	4.14	3.36	0.00	3.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
545	3.800	29.00	0.10	23.30	212.33	4.14	3.35	0.00	3.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
546	3.700	29.00	0.10	23.30	212.33	4.14	3.35	0.00	3.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
547	3.600	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
548	3.500	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
549	3.400	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
550	3.300	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
551	3.200	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
552	3.100	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
553	3.000	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
554	2.900	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
555	2.800	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
556	2.700	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
557	2.600	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
558	2.500	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
559	2.400	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
560	2.300	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
561	2.200	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
562	2.100	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
563	2.000	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
564	1.900	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
565	1.800	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
566	1.700	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
567	1.600	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
568	1.500	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
569	1.400	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
570	1.300	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
571	1.200	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
572	1.100	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
573	1.000	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
574	0.900	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
575	0.800	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
576	0.700	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
577	0.600	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
578	0.500	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
579	0.400	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
580	0.300	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
581	0.200	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
582	0.100	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
583	0.000	29.00	0.10	23.30	212.33	4.15	3.34	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71

STREAM SUMMARY
Theriot Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Summer Projection Natural (no man made loads) condtions

TRAVEL TIME	=	32671.35	DAYS		
MAXIMUM EFFLUENT	=	60.00	PERCENT		
FLOW	=	0.00300	TO	0.02100	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00000	TO	0.00032	m/s
DEPTH	=	0.56	TO	2.01	m
WIDTH	=	14.00	TO	******	m
BOD DECAY	=	0.11	TO	0.11	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.35	TO	2.47	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.39	TO	1.41	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	=	29.00	TO	29.00	deg C
DISSOLVED OXYGEN	=	3.79	TO	4.94	mg/L

FINAL REPORT Halpin Canal
REACH NO. 5 Halpin Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Summer Projection Natural (no man made loads) condtions

********** 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
134	HDWTR	0.00300	0.00	0.00	29.10	245.20	6.92	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17
204	WSTLD	0.00300	0.00	0.00	24.20	201.40	6.92	6.53	0.00	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35

********** 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
134	15.50	15.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
135	15.40	15.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
136	15.30	15.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
137	15.20	15.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
138	15.10	15.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
139	15.00	14.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
140	14.90	14.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
141	14.80	14.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
142	14.70	14.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
143	14.60	14.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
144	14.50	14.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
145	14.40	14.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
146	14.30	14.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
147	14.20	14.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
148	14.10	14.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
149	14.00	13.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
150	13.90	13.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
151	13.80	13.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
152	13.70	13.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
153	13.60	13.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
154	13.50	13.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
155	13.40	13.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
156	13.30	13.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
157	13.20	13.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
158	13.10	13.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
159	13.00	12.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
160	12.90	12.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
161	12.80	12.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
162	12.70	12.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
163	12.60	12.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
164	12.50	12.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
165	12.40	12.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
166	12.30	12.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
167	12.20	12.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
168	12.10	12.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
169	12.00	11.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
170	11.90	11.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
171	11.80	11.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
172	11.70	11.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
173	11.60	11.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
174	11.50	11.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
175	11.40	11.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
176	11.30	11.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
177	11.20	11.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
178	11.10	11.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
179	11.00	10.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
180	10.90	10.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
181	10.80	10.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
182	10.70	10.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
183	10.60	10.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000

184	10.50	10.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
185	10.40	10.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
186	10.30	10.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
187	10.20	10.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
188	10.10	10.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
189	10.00	9.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
190	9.90	9.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
191	9.80	9.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
192	9.70	9.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
193	9.60	9.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
194	9.50	9.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
195	9.40	9.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
196	9.30	9.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
197	9.20	9.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
198	9.10	9.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
199	9.00	8.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
200	8.90	8.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
201	8.80	8.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
202	8.70	8.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
203	8.60	8.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
204	8.50	8.40	0.00600	50.0	0.00034	3.40	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
205	8.40	8.30	0.00600	50.0	0.00034	3.40	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
206	8.30	8.20	0.00600	50.0	0.00034	3.40	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
207	8.20	8.10	0.00600	50.0	0.00034	3.40	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
208	8.10	8.00	0.00600	50.0	0.00034	3.40	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
TOT						493.18			132240.09	174000.00					
AVG					0.00018		0.76	23.20			17.63				
CUM						493.18									

********** 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
134	15.400	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
135	15.300	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
136	15.200	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
137	15.100	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
138	15.000	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
139	14.900	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
140	14.800	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
141	14.700	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
142	14.600	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
143	14.500	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
144	14.400	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
145	14.300	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
146	14.200	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
147	14.100	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
148	14.000	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
149	13.900	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
150	13.800	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
151	13.700	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
152	13.600	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00

153	13.500	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
154	13.400	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
155	13.300	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
156	13.200	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
157	13.100	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
158	13.000	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
159	12.900	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
160	12.800	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
161	12.700	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
162	12.600	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
163	12.500	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
164	12.400	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
165	12.300	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
166	12.200	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
167	12.100	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
168	12.000	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
169	11.900	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
170	11.800	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
171	11.700	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
172	11.600	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
173	11.500	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
174	11.400	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
175	11.300	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
176	11.200	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
177	11.100	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
178	11.000	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
179	10.900	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
180	10.800	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
181	10.700	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
182	10.600	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
183	10.500	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
184	10.400	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
185	10.300	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
186	10.200	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
187	10.100	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
188	10.000	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
189	9.900	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
190	9.800	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
191	9.700	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
192	9.600	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
193	9.500	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
194	9.400	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
195	9.300	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
196	9.200	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
197	9.100	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
198	9.000	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
199	8.900	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
200	8.800	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
201	8.700	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
202	8.600	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
203	8.500	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
204	8.400	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
205	8.300	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
206	8.200	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
207	8.100	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00
208	8.000	7.69	1.04	0.11	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	0.00	0.00	0.00	0.18	0.00

AVG 20 DEG C RATE 0.88 0.07 0.00 0.00 0.00 0.00 0.00 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.10 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
134	15.400	29.00	0.12	29.10	245.20	3.86	5.48	0.00	5.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.91
135	15.300	29.00	0.12	29.10	245.20	3.56	4.83	0.00	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
136	15.200	29.00	0.12	29.10	245.20	3.56	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.74
137	15.100	29.00	0.12	29.10	245.20	3.59	4.23	0.00	4.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
138	15.000	29.00	0.12	29.10	245.20	3.60	4.11	0.00	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
139	14.900	29.00	0.12	29.10	245.20	3.61	4.03	0.00	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
140	14.800	29.00	0.12	29.10	245.20	3.62	3.99	0.00	3.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
141	14.700	29.00	0.12	29.10	245.20	3.62	3.96	0.00	3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
142	14.600	29.00	0.12	29.10	245.20	3.62	3.95	0.00	3.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
143	14.500	29.00	0.12	29.10	245.20	3.62	3.94	0.00	3.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
144	14.400	29.00	0.12	29.10	245.20	3.62	3.94	0.00	3.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
145	14.300	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
146	14.200	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
147	14.100	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
148	14.000	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
149	13.900	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
150	13.800	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
151	13.700	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
152	13.600	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
153	13.500	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
154	13.400	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
155	13.300	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
156	13.200	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
157	13.100	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
158	13.000	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
159	12.900	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
160	12.800	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
161	12.700	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
162	12.600	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
163	12.500	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
164	12.400	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
165	12.300	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
166	12.200	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
167	12.100	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
168	12.000	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
169	11.900	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
170	11.800	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
171	11.700	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
172	11.600	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
173	11.500	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
174	11.400	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
175	11.300	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
176	11.200	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
177	11.100	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
178	11.000	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70

179	10.900	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
180	10.800	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
181	10.700	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
182	10.600	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
183	10.500	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
184	10.400	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
185	10.300	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
186	10.200	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
187	10.100	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
188	10.000	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
189	9.900	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
190	9.800	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
191	9.700	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
192	9.600	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
193	9.500	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
194	9.400	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
195	9.300	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
196	9.200	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
197	9.100	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
198	9.000	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
199	8.900	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
200	8.800	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
201	8.700	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
202	8.600	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
203	8.500	29.00	0.12	29.10	245.20	3.63	3.93	0.00	3.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.70
204	8.400	29.00	0.12	26.65	223.30	3.90	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90
205	8.300	29.00	0.12	26.65	223.30	3.62	4.63	0.00	4.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.82
206	8.200	29.00	0.12	26.65	223.30	3.59	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.78
207	8.100	29.00	0.12	26.65	223.30	3.59	4.31	0.00	4.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.75
208	8.000	29.00	0.12	26.65	223.30	3.60	4.21	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.73

********** 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
209	UPR RCH	0.00600	29.00	0.12	26.65	223.30	3.60	4.21	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73
227	WSTLD	0.00300	0.00	0.00	24.20	201.40	6.92	6.53	0.00	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
209	8.00	7.90	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
210	7.90	7.80	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
211	7.80	7.70	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
212	7.70	7.60	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
213	7.60	7.50	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
214	7.50	7.40	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
215	7.40	7.30	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
216	7.30	7.20	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
217	7.20	7.10	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
218	7.10	7.00	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
219	7.00	6.90	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
220	6.90	6.80	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
221	6.80	6.70	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
222	6.70	6.60	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
223	6.60	6.50	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
224	6.50	6.40	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
225	6.40	6.30	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
226	6.30	6.20	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
227	6.20	6.10	0.00900	66.7	0.00036	3.21	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
228	6.10	6.00	0.00900	66.7	0.00036	3.21	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
229	6.00	5.90	0.00900	66.7	0.00036	3.21	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
230	5.90	5.80	0.00900	66.7	0.00036	3.21	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
TOT						99.63			54978.00	52360.00					
AVG					0.00026		1.05	23.80			24.99				
CUM						592.80									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
209	7.900	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
210	7.800	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
211	7.700	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
212	7.600	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
213	7.500	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
214	7.400	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
215	7.300	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
216	7.200	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
217	7.100	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
218	7.000	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
219	6.900	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
220	6.800	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
221	6.700	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
222	6.600	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
223	6.500	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
224	6.400	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
225	6.300	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
226	6.200	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
227	6.100	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
228	6.000	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
229	5.900	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
230	5.800	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.64	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	0.10	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
209	7.900	29.00	0.12	26.65	223.30	5.12	6.97	0.00	6.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
210	7.800	29.00	0.12	26.65	223.30	5.23	8.79	0.00	8.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.92
211	7.700	29.00	0.12	26.65	223.30	5.12	10.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.95
212	7.600	29.00	0.12	26.65	223.30	5.00	10.80	0.00	10.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.97
213	7.500	29.00	0.12	26.65	223.30	4.91	11.34	0.00	11.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.98
214	7.400	29.00	0.12	26.65	223.30	4.85	11.69	0.00	11.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.98
215	7.300	29.00	0.12	26.65	223.30	4.82	11.92	0.00	11.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
216	7.200	29.00	0.12	26.65	223.30	4.79	12.07	0.00	12.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
217	7.100	29.00	0.12	26.65	223.30	4.77	12.17	0.00	12.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
218	7.000	29.00	0.12	26.65	223.30	4.76	12.24	0.00	12.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
219	6.900	29.00	0.12	26.65	223.30	4.75	12.29	0.00	12.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
220	6.800	29.00	0.12	26.65	223.30	4.75	12.32	0.00	12.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
221	6.700	29.00	0.12	26.65	223.30	4.75	12.34	0.00	12.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
222	6.600	29.00	0.12	26.65	223.30	4.74	12.35	0.00	12.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
223	6.500	29.00	0.12	26.65	223.30	4.74	12.36	0.00	12.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
224	6.400	29.00	0.12	26.65	223.30	4.74	12.36	0.00	12.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
225	6.300	29.00	0.12	26.65	223.30	4.74	12.37	0.00	12.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99

226	6.200	29.00	0.12	26.65	223.30	4.74	12.37	0.00	12.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
227	6.100	29.00	0.12	25.83	216.00	5.09	10.92	0.00	10.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.06
228	6.000	29.00	0.12	25.83	216.00	4.95	11.29	0.00	11.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.04
229	5.900	29.00	0.12	25.83	216.00	4.88	11.56	0.00	11.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.02
230	5.800	29.00	0.12	25.83	216.00	4.84	11.77	0.00	11.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.01

FINAL REPORT Halpin Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 7 Halpin Canal Summer Projection Natural (no man made loads) condtions

********** 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
231	UPR RCH	0.00900	29.00	0.12	25.83	216.00	4.84	11.77	0.00	11.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01

********** 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
231	5.80	5.70	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
232	5.70	5.60	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
233	5.60	5.50	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
234	5.50	5.40	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
235	5.40	5.30	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
236	5.30	5.20	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
237	5.20	5.10	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
238	5.10	5.00	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
239	5.00	4.90	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
240	4.90	4.80	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
241	4.80	4.70	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
242	4.70	4.60	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
243	4.60	4.50	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
244	4.50	4.40	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
245	4.40	4.30	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
246	4.30	4.20	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
247	4.20	4.10	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
248	4.10	4.00	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
249	4.00	3.90	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
250	3.90	3.80	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
251	3.80	3.70	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
252	3.70	3.60	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
253	3.60	3.50	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
254	3.50	3.40	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
255	3.40	3.30	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
256	3.30	3.20	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
257	3.20	3.10	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
258	3.10	3.00	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
259	3.00	2.90	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
260	2.90	2.80	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
261	2.80	2.70	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000

262	2.70	2.60	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
263	2.60	2.50	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
264	2.50	2.40	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
265	2.40	2.30	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
266	2.30	2.20	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
267	2.20	2.10	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
268	2.10	2.00	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
269	2.00	1.90	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
270	1.90	1.80	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
271	1.80	1.70	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
272	1.70	1.60	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
273	1.60	1.50	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
274	1.50	1.40	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
275	1.40	1.30	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
276	1.30	1.20	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
277	1.20	1.10	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
278	1.10	1.00	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
279	1.00	0.90	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
280	0.90	0.80	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
281	0.80	0.70	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
282	0.70	0.60	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
283	0.60	0.50	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
284	0.50	0.40	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
285	0.40	0.30	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
286	0.30	0.20	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
287	0.20	0.10	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
288	0.10	0.00	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
TOT						243.87			189636.73	141520.00					
AVG					0.00028		1.34	24.40			32.70				
CUM						836.68									

********** 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
231	5.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
232	5.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
233	5.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
234	5.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
235	5.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
236	5.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
237	5.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
238	5.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
239	4.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
240	4.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
241	4.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
242	4.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
243	4.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
244	4.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
245	4.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
246	4.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
247	4.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00

248	4.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
249	3.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
250	3.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
251	3.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
252	3.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
253	3.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
254	3.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
255	3.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
256	3.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
257	3.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
258	3.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
259	2.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
260	2.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
261	2.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
262	2.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
263	2.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
264	2.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
265	2.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
266	2.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
267	2.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
268	2.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
269	1.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
270	1.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
271	1.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
272	1.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
273	1.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
274	1.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
275	1.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
276	1.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
277	1.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
278	1.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
279	0.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
280	0.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
281	0.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
282	0.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
283	0.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
284	0.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
285	0.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
286	0.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
287	0.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
288	0.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.68			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
231	5.700	29.00	0.12	25.83	216.00	4.23	10.54	0.00	10.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.96
232	5.600	29.00	0.12	25.83	216.00	4.16	9.69	0.00	9.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.93
233	5.500	29.00	0.12	25.83	216.00	4.22	9.10	0.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.91
234	5.400	29.00	0.12	25.83	216.00	4.30	8.69	0.00	8.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90

235	5.300	29.00	0.12	25.83	216.00	4.35	8.41	0.00	8.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90
236	5.200	29.00	0.12	25.83	216.00	4.40	8.21	0.00	8.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
237	5.100	29.00	0.12	25.83	216.00	4.43	8.08	0.00	8.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
238	5.000	29.00	0.12	25.83	216.00	4.45	7.98	0.00	7.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
239	4.900	29.00	0.12	25.83	216.00	4.46	7.92	0.00	7.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
240	4.800	29.00	0.12	25.83	216.00	4.47	7.87	0.00	7.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
241	4.700	29.00	0.12	25.83	216.00	4.48	7.84	0.00	7.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
242	4.600	29.00	0.12	25.83	216.00	4.48	7.82	0.00	7.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
243	4.500	29.00	0.12	25.83	216.00	4.49	7.81	0.00	7.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
244	4.400	29.00	0.12	25.83	216.00	4.49	7.80	0.00	7.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
245	4.300	29.00	0.12	25.83	216.00	4.49	7.79	0.00	7.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
246	4.200	29.00	0.12	25.83	216.00	4.49	7.78	0.00	7.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
247	4.100	29.00	0.12	25.83	216.00	4.49	7.78	0.00	7.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
248	4.000	29.00	0.12	25.83	216.00	4.49	7.78	0.00	7.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
249	3.900	29.00	0.12	25.83	216.00	4.49	7.78	0.00	7.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
250	3.800	29.00	0.12	25.83	216.00	4.49	7.78	0.00	7.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
251	3.700	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
252	3.600	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
253	3.500	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
254	3.400	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
255	3.300	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
256	3.200	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
257	3.100	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
258	3.000	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
259	2.900	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
260	2.800	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
261	2.700	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
262	2.600	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
263	2.500	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
264	2.400	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
265	2.300	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
266	2.200	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
267	2.100	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
268	2.000	29.00	0.12	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
269	1.900	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
270	1.800	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
271	1.700	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
272	1.600	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
273	1.500	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
274	1.400	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
275	1.300	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
276	1.200	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
277	1.100	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
278	1.000	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
279	0.900	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
280	0.800	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
281	0.700	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
282	0.600	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
283	0.500	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
284	0.400	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
285	0.300	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
286	0.200	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
287	0.100	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
288	0.000	29.00	0.11	25.83	216.00	4.49	7.77	0.00	7.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89

STREAM SUMMARY
Halpin Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Summer Projection Natural (no man made loads) condtions

TRAVEL TIME	=	836.68	DAYS		
MAXIMUM EFFLUENT	=	66.67	PERCENT		
FLOW	=	0.00300	TO	0.00900	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00017	TO	0.00036	m/s
DEPTH	=	0.76	TO	1.34	m
WIDTH	=	23.20	TO	24.40	m
BOD DECAY	=	0.11	TO	0.11	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.76	TO	2.78	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.59	TO	1.04	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	=	29.00	TO	29.00	deg C
DISSOLVED OXYGEN	=	3.56	TO	5.23	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
304	HDWTR	0.00300	0.00	0.00	12.10	143.00	6.92	6.94	0.00	6.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.06

********** 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
304	22.00	21.90	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
305	21.90	21.80	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
306	21.80	21.70	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
307	21.70	21.60	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
308	21.60	21.50	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
309	21.50	21.40	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
310	21.40	21.30	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
311	21.30	21.20	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
312	21.20	21.10	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
313	21.10	21.00	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
314	21.00	20.90	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
315	20.90	20.80	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
316	20.80	20.70	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
317	20.70	20.60	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
318	20.60	20.50	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
319	20.50	20.40	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
320	20.40	20.30	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
321	20.30	20.20	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
322	20.20	20.10	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
323	20.10	20.00	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
324	20.00	19.90	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
325	19.90	19.80	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
TOT						164.85			42728.39	42900.00					
AVG					0.00015		1.00	19.50			19.42				
CUM						164.85									

********** 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
304	21.900	7.69	0.79	0.08	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	0.66	0.00
305	21.800	7.69	0.79	0.08	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	0.66	0.00
306	21.700	7.69	0.79	0.08	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	0.66	0.00
307	21.600	7.69	0.79	0.08	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	0.66	0.00
308	21.500	7.69	0.79	0.08	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	0.66	0.00
309	21.400	7.69	0.79	0.08	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	0.66	0.00
310	21.300	7.69	0.79	0.08	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	0.66	0.00
311	21.200	7.69	0.79	0.08	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	0.66	0.00
312	21.100	7.69	0.79	0.08	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	0.66	0.00
313	21.000	7.69	0.79	0.08	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	0.66	0.00
314	20.900	7.69	0.79	0.08	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	0.66	0.00
315	20.800	7.69	0.79	0.08	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	0.66	0.00
316	20.700	7.69	0.79	0.08	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	0.66	0.00
317	20.600	7.69	0.79	0.08	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	0.66	0.00
318	20.500	7.69	0.79	0.08	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	0.66	0.00
319	20.400	7.69	0.79	0.08	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	0.66	0.00
320	20.300	7.69	0.79	0.08	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	0.66	0.00
321	20.200	7.69	0.79	0.08	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	0.66	0.00
322	20.100	7.69	0.79	0.08	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	0.66	0.00
323	20.000	7.69	0.79	0.08	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	0.66	0.00
324	19.900	7.69	0.79	0.08	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	0.66	0.00
325	19.800	7.69	0.79	0.08	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	0.66	0.00
AVG 20 DEG C RATE			0.67	0.05	0.00	0.00	0.00	0.00	0.00	1.12			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
304	21.900	29.00	0.08	12.10	143.00	4.19	6.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.05
305	21.800	29.00	0.08	12.10	143.00	3.96	5.40	0.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
306	21.700	29.00	0.08	12.10	143.00	3.98	5.01	0.00	5.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
307	21.600	29.00	0.08	12.10	143.00	4.01	4.77	0.00	4.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
308	21.500	29.00	0.08	12.10	143.00	4.03	4.61	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
309	21.400	29.00	0.08	12.10	143.00	4.04	4.51	0.00	4.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
310	21.300	29.00	0.08	12.10	143.00	4.04	4.45	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
311	21.200	29.00	0.08	12.10	143.00	4.05	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
312	21.100	29.00	0.08	12.10	143.00	4.05	4.38	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
313	21.000	29.00	0.08	12.10	143.00	4.05	4.36	0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
314	20.900	29.00	0.08	12.10	143.00	4.05	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
315	20.800	29.00	0.08	12.10	143.00	4.05	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
316	20.700	29.00	0.08	12.10	143.00	4.06	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
317	20.600	29.00	0.08	12.10	143.00	4.06	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
318	20.500	29.00	0.08	12.10	143.00	4.06	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
319	20.400	29.00	0.08	12.10	143.00	4.06	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
320	20.300	29.00	0.08	12.10	143.00	4.06	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85

321	20.200	29.00	0.08	12.10	143.00	4.06	4.34	0.00	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
322	20.100	29.00	0.08	12.10	143.00	4.06	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
323	20.000	29.00	0.08	12.10	143.00	4.06	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
324	19.900	29.00	0.08	12.10	143.00	4.06	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
325	19.800	29.00	0.08	12.10	143.00	4.06	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 10 Grand Bayou Summer Projection Natural (no man made loads) condtions

********** 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
326	UPR RCH	0.00300	29.00	0.08	12.10	143.00	4.06	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85
327	WSTLD	0.00300	0.00	0.00	19.40	207.70	6.92	6.93	0.00	6.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07

********** 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
326	19.80	19.70	0.00300	0.0	0.00006	19.00	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
327	19.70	19.60	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
328	19.60	19.50	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
329	19.50	19.40	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
330	19.40	19.30	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
331	19.30	19.20	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
332	19.20	19.10	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
333	19.10	19.00	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
334	19.00	18.90	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
335	18.90	18.80	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
336	18.80	18.70	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
337	18.70	18.60	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
338	18.60	18.50	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
339	18.50	18.40	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
340	18.40	18.30	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
341	18.30	18.20	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
342	18.20	18.10	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
343	18.10	18.00	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
344	18.00	17.90	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
345	17.90	17.80	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
346	17.80	17.70	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
347	17.70	17.60	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
348	17.60	17.50	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
349	17.50	17.40	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
350	17.40	17.30	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
TOT						246.95			123093.75	81250.00					
AVG					0.00012		1.51	32.50			49.24				
CUM						411.79									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
326	19.700	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
327	19.600	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
328	19.500	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
329	19.400	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
330	19.300	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
331	19.200	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
332	19.100	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
333	19.000	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
334	18.900	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
335	18.800	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
336	18.700	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
337	18.600	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
338	18.500	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
339	18.400	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
340	18.300	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
341	18.200	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
342	18.100	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
343	18.000	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
344	17.900	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
345	17.800	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
346	17.700	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
347	17.600	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
348	17.500	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
349	17.400	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
350	17.300	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.41	2.41	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.37			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
326	19.700	29.00	0.08	12.10	143.00	3.68	3.05	0.00	3.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.42
327	19.600	29.00	0.08	15.75	175.35	3.75	3.80	0.00	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.50
328	19.500	29.00	0.08	15.75	175.35	3.68	3.11	0.00	3.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.40
329	19.400	29.00	0.08	15.75	175.35	3.73	2.71	0.00	2.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
330	19.300	29.00	0.08	15.75	175.35	3.77	2.48	0.00	2.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
331	19.200	29.00	0.08	15.75	175.35	3.79	2.34	0.00	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
332	19.100	29.00	0.08	15.75	175.35	3.80	2.26	0.00	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
333	19.000	29.00	0.08	15.75	175.35	3.81	2.21	0.00	2.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
334	18.900	29.00	0.08	15.75	175.35	3.82	2.19	0.00	2.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
335	18.800	29.00	0.08	15.75	175.35	3.82	2.17	0.00	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
336	18.700	29.00	0.08	15.75	175.35	3.82	2.16	0.00	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
337	18.600	29.00	0.08	15.75	175.35	3.82	2.16	0.00	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
338	18.500	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38

339	18.400	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
340	18.300	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
341	18.200	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
342	18.100	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
343	18.000	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
344	17.900	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
345	17.800	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
346	17.700	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
347	17.600	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
348	17.500	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
349	17.400	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38
350	17.300	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.38

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 11 Grand Bayou Summer Projection Natural (no man made loads) condtions

********** 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
351	UPR RCH	0.00600	29.00	0.08	15.75	175.35	3.82	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
351	17.30	17.20	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
352	17.20	17.10	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
353	17.10	17.00	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
354	17.00	16.90	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
355	16.90	16.80	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
356	16.80	16.70	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
357	16.70	16.60	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
358	16.60	16.50	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
359	16.50	16.40	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
360	16.40	16.30	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
361	16.30	16.20	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
362	16.20	16.10	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
363	16.10	16.00	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
364	16.00	15.90	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
365	15.90	15.80	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
366	15.80	15.70	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
367	15.70	15.60	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
368	15.60	15.50	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
369	15.50	15.40	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
370	15.40	15.30	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
371	15.30	15.20	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
372	15.20	15.10	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
373	15.10	15.00	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
374	15.00	14.90	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000

TOT							151.72						78650.88	70224.00									
AVG						0.00018			1.12	29.26					32.77								
CUM							563.51																

********** 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
351	17.200	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
352	17.100	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
353	17.000	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
354	16.900	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
355	16.800	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
356	16.700	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
357	16.600	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
358	16.500	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
359	16.400	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
360	16.300	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
361	16.200	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
362	16.100	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
363	16.000	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
364	15.900	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
365	15.800	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
366	15.700	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
367	15.600	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
368	15.500	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
369	15.400	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
370	15.300	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
371	15.200	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
372	15.100	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
373	15.000	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
374	14.900	7.69	0.70	0.08	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	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.62			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
351	17.200	29.00	0.08	15.75	175.35	3.51	1.45	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.49
352	17.100	29.00	0.08	15.75	175.35	3.48	0.98	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
353	17.000	29.00	0.08	15.75	175.35	3.50	0.67	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
354	16.900	29.00	0.08	15.75	175.35	3.52	0.45	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
355	16.800	29.00	0.08	15.75	175.35	3.54	0.30	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
356	16.700	29.00	0.08	15.75	175.35	3.55	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
357	16.600	29.00	0.08	15.75	175.35	3.56	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
358	16.500	29.00	0.08	15.75	175.35	3.56	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
359	16.400	29.00	0.08	15.75	175.35	3.57	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52

360	16.300	29.00	0.08	15.75	175.35	3.57	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
361	16.200	29.00	0.08	15.75	175.35	3.57	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
362	16.100	29.00	0.08	15.75	175.35	3.57	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
363	16.000	29.00	0.08	15.75	175.35	3.57	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
364	15.900	29.00	0.08	15.75	175.35	3.58	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
365	15.800	29.00	0.08	15.75	175.35	3.58	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
366	15.700	29.00	0.08	15.75	175.35	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
367	15.600	29.00	0.08	15.75	175.35	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
368	15.500	29.00	0.08	15.75	175.35	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
369	15.400	29.00	0.08	15.75	175.35	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
370	15.300	29.00	0.08	15.75	175.35	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
371	15.200	29.00	0.08	15.75	175.35	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
372	15.100	29.00	0.08	15.75	175.35	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
373	15.000	29.00	0.08	15.75	175.35	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
374	14.900	29.00	0.08	15.75	175.35	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 12 Grand Bayou Summer Projection Natural (no man made loads) condtions

********** 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
375	UPR RCH	0.00600	29.00	0.08	15.75	175.35	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52

********** 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
375	14.90	14.80	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
376	14.80	14.70	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
377	14.70	14.60	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
378	14.60	14.50	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
379	14.50	14.40	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
380	14.40	14.30	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
381	14.30	14.20	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
382	14.20	14.10	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
383	14.10	14.00	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
384	14.00	13.90	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
385	13.90	13.80	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
386	13.80	13.70	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
387	13.70	13.60	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
388	13.60	13.50	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
389	13.50	13.40	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
390	13.40	13.30	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
391	13.30	13.20	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
392	13.20	13.10	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
393	13.10	13.00	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
394	13.00	12.90	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
395	12.90	12.80	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000

396	12.80	12.70	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
397	12.70	12.60	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
398	12.60	12.50	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
399	12.50	12.40	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
TOT						132.52			68696.88	55625.00					
AVG					0.00022		1.24	22.25			27.48				
CUM						696.03									

********** 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
375	14.800	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
376	14.700	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
377	14.600	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
378	14.500	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
379	14.400	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
380	14.300	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
381	14.200	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
382	14.100	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
383	14.000	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
384	13.900	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
385	13.800	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
386	13.700	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
387	13.600	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
388	13.500	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
389	13.400	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
390	13.300	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
391	13.200	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
392	13.100	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
393	13.000	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
394	12.900	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
395	12.800	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
396	12.700	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
397	12.600	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
398	12.500	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
399	12.400	7.69	0.64	0.08	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	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.54	0.05	0.00	0.00	0.00	0.00	0.00	1.63			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
375	14.800	29.00	0.08	15.75	175.35	3.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.47
376	14.700	29.00	0.08	15.75	175.35	3.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
377	14.600	29.00	0.08	15.75	175.35	3.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
378	14.500	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46

379	14.400	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
380	14.300	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
381	14.200	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
382	14.100	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
383	14.000	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
384	13.900	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
385	13.800	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
386	13.700	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
387	13.600	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
388	13.500	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
389	13.400	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
390	13.300	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
391	13.200	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
392	13.100	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
393	13.000	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
394	12.900	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
395	12.800	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
396	12.700	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
397	12.600	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
398	12.500	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
399	12.400	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46

********** 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
400	UPR RCH	0.00600	29.00	0.08	15.75	175.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46

********** 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
400	12.40	12.30	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
401	12.30	12.20	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
402	12.20	12.10	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
403	12.10	12.00	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
404	12.00	11.90	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
405	11.90	11.80	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
406	11.80	11.70	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
407	11.70	11.60	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
408	11.60	11.50	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
409	11.50	11.40	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
410	11.40	11.30	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
411	11.30	11.20	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
412	11.20	11.10	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
413	11.10	11.00	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
414	11.00	10.90	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
415	10.90	10.80	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
416	10.80	10.70	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
417	10.70	10.60	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
418	10.60	10.50	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
TOT						144.19			74746.00	53390.00					
AVG					0.00015		1.40	28.10			39.34				
CUM						840.22									

********** 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
400	12.300	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
401	12.200	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
402	12.100	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
403	12.000	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
404	11.900	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
405	11.800	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
406	11.700	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00

407	11.600	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
408	11.500	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
409	11.400	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
410	11.300	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
411	11.200	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
412	11.100	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
413	11.000	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
414	10.900	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
415	10.800	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
416	10.700	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
417	10.600	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
418	10.500	7.69	0.56	0.08	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	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.48	0.05	0.00	0.00	0.00	0.00	0.00	1.49			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
400	12.300	29.00	0.08	15.75	175.35	3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53
401	12.200	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
402	12.100	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
403	12.000	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
404	11.900	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
405	11.800	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
406	11.700	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
407	11.600	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
408	11.500	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
409	11.400	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
410	11.300	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
411	11.200	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
412	11.100	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
413	11.000	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
414	10.900	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
415	10.800	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
416	10.700	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
417	10.600	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
418	10.500	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55

********** 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
419	UPR RCH	0.00600	29.00	0.08	15.75	175.35	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55

********** 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
419	10.50	10.40	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
420	10.40	10.30	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
421	10.30	10.20	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
422	10.20	10.10	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
423	10.10	10.00	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
424	10.00	9.90	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
425	9.90	9.80	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
426	9.80	9.70	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
427	9.70	9.60	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
428	9.60	9.50	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
429	9.50	9.40	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
430	9.40	9.30	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
431	9.30	9.20	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
432	9.20	9.10	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
433	9.10	9.00	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
434	9.00	8.90	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
435	8.90	8.80	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
436	8.80	8.70	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
437	8.70	8.60	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
TOT						213.20			110522.07	69730.00					
AVG					0.00010		1.58	36.70			58.17				
CUM						1053.41									

********** 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
419	10.400	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
420	10.300	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
421	10.200	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
422	10.100	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
423	10.000	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
424	9.900	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
425	9.800	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00

426	9.700	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
427	9.600	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
428	9.500	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
429	9.400	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
430	9.300	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
431	9.200	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
432	9.100	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
433	9.000	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
434	8.900	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
435	8.800	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
436	8.700	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
437	8.600	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.16			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
419	10.400	29.00	0.08	15.75	175.35	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.76
420	10.300	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
421	10.200	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
422	10.100	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
423	10.000	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
424	9.900	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
425	9.800	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
426	9.700	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
427	9.600	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
428	9.500	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
429	9.400	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
430	9.300	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
431	9.200	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
432	9.100	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
433	9.000	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
434	8.900	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
435	8.800	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
436	8.700	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
437	8.600	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79

********** 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
438	UPR RCH	0.00600	29.00	0.08	15.75	175.35	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79

********** 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
438	8.60	8.50	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
439	8.50	8.40	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
440	8.40	8.30	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
441	8.30	8.20	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
442	8.20	8.10	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
443	8.10	8.00	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
444	8.00	7.90	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
445	7.90	7.80	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
446	7.80	7.70	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
447	7.70	7.60	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
448	7.60	7.50	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
449	7.50	7.40	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
450	7.40	7.30	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
451	7.30	7.20	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
452	7.20	7.10	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
453	7.10	7.00	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
454	7.00	6.90	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
455	6.90	6.80	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
456	6.80	6.70	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
457	6.70	6.60	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
TOT						208.93			108306.83	65839.99					
AVG					0.00011		1.65	32.92			54.15				
CUM						1262.34									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
438	8.500	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
439	8.400	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
440	8.300	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
441	8.200	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
442	8.100	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
443	8.000	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00

444	7.900	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
445	7.800	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
446	7.700	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
447	7.600	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
448	7.500	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
449	7.400	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
450	7.300	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
451	7.200	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
452	7.100	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
453	7.000	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
454	6.900	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
455	6.800	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
456	6.700	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
457	6.600	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	2.34	2.34	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.40	0.05	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	0.36	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
438	8.500	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.64
439	8.400	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.62
440	8.300	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
441	8.200	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
442	8.100	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
443	8.000	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
444	7.900	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
445	7.800	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
446	7.700	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
447	7.600	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
448	7.500	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
449	7.400	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
450	7.300	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
451	7.200	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
452	7.100	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
453	7.000	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
454	6.900	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
455	6.800	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
456	6.700	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
457	6.600	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61

********** 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
458	UPR RCH	0.00600	29.00	0.08	15.75	175.35	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61

********** 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
458	6.60	6.50	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
459	6.50	6.40	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
460	6.40	6.30	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
461	6.30	6.20	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
462	6.20	6.10	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
463	6.10	6.00	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
464	6.00	5.90	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
465	5.90	5.80	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
466	5.80	5.70	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
467	5.70	5.60	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
468	5.60	5.50	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
469	5.50	5.40	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
470	5.40	5.30	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
471	5.30	5.20	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
472	5.20	5.10	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
473	5.10	5.00	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
474	5.00	4.90	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
475	4.90	4.80	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
TOT						186.57			96717.61	63630.00					
AVG					0.00011		1.52	35.35			53.73				
CUM						1448.91									

********** 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
458	6.500	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
459	6.400	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
460	6.300	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
461	6.200	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
462	6.100	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
463	6.000	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
464	5.900	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
465	5.800	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00

466	5.700	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
467	5.600	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
468	5.500	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
469	5.400	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
470	5.300	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
471	5.200	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
472	5.100	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
473	5.000	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
474	4.900	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
475	4.800	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	2.26	2.26	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
458	6.500	29.00	0.08	15.75	175.35	3.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
459	6.400	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
460	6.300	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
461	6.200	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
462	6.100	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
463	6.000	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
464	5.900	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
465	5.800	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
466	5.700	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
467	5.600	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
468	5.500	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
469	5.400	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
470	5.300	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
471	5.200	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
472	5.100	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
473	5.000	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
474	4.900	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72
475	4.800	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.72

********** 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
476	UPR RCH	0.00600	29.00	0.08	15.75	175.35	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72

********** 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
476	4.80	4.70	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
477	4.70	4.60	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
478	4.60	4.50	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
479	4.50	4.40	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
480	4.40	4.30	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
481	4.30	4.20	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
482	4.20	4.10	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
483	4.10	4.00	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
484	4.00	3.90	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
485	3.90	3.80	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
486	3.80	3.70	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
487	3.70	3.60	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
488	3.60	3.50	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
489	3.50	3.40	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
490	3.40	3.30	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
491	3.30	3.20	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
492	3.20	3.10	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
493	3.10	3.00	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
494	3.00	2.90	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
495	2.90	2.80	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
496	2.80	2.70	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
497	2.70	2.60	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
498	2.60	2.50	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
499	2.50	2.40	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
500	2.40	2.30	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
501	2.30	2.20	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
502	2.20	2.10	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
503	2.10	2.00	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
504	2.00	1.90	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
505	1.90	1.80	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
506	1.80	1.70	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
507	1.70	1.60	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
508	1.60	1.50	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
509	1.50	1.40	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
510	1.40	1.30	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
511	1.30	1.20	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
512	1.20	1.10	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
513	1.10	1.00	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000

514	1.00	0.90	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
515	0.90	0.80	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
516	0.80	0.70	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
517	0.70	0.60	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
518	0.60	0.50	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
519	0.50	0.40	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
520	0.40	0.30	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
521	0.30	0.20	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
522	0.20	0.10	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
523	0.10	0.00	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
TOT						650.16			337040.84	165215.98					
AVG					0.00009		2.04	34.42			70.22				
CUM						2099.07									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
476	4.700	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
477	4.600	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
478	4.500	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
479	4.400	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
480	4.300	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
481	4.200	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
482	4.100	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
483	4.000	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
484	3.900	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
485	3.800	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
486	3.700	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
487	3.600	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
488	3.500	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
489	3.400	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
490	3.300	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
491	3.200	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
492	3.100	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
493	3.000	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
494	2.900	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
495	2.800	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
496	2.700	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
497	2.600	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
498	2.500	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
499	2.400	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
500	2.300	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
501	2.200	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
502	2.100	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
503	2.000	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
504	1.900	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
505	1.800	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
506	1.700	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
507	1.600	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
508	1.500	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
509	1.400	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00

510	1.300	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
511	1.200	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
512	1.100	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
513	1.000	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
514	0.900	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
515	0.800	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
516	0.700	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
517	0.600	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
518	0.500	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
519	0.400	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
520	0.300	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
521	0.200	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
522	0.100	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
523	0.000	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	1.13	1.13	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.33	0.05	0.00	0.00	0.00	0.00	0.00	0.64			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
476	4.700	29.00	0.08	15.75	175.35	4.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.98
477	4.600	29.00	0.08	15.75	175.35	4.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
478	4.500	29.00	0.08	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
479	4.400	29.00	0.08	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
480	4.300	29.00	0.08	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
481	4.200	29.00	0.08	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
482	4.100	29.00	0.08	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
483	4.000	29.00	0.08	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
484	3.900	29.00	0.08	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
485	3.800	29.00	0.08	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
486	3.700	29.00	0.08	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
487	3.600	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
488	3.500	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
489	3.400	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
490	3.300	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
491	3.200	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
492	3.100	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
493	3.000	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
494	2.900	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
495	2.800	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
496	2.700	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
497	2.600	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
498	2.500	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
499	2.400	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
500	2.300	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
501	2.200	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
502	2.100	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
503	2.000	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
504	1.900	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
505	1.800	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
506	1.700	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00

507	1.600	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
508	1.500	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
509	1.400	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
510	1.300	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
511	1.200	29.00	0.09	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
512	1.100	29.00	0.10	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
513	1.000	29.00	0.10	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
514	0.900	29.00	0.10	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
515	0.800	29.00	0.10	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
516	0.700	29.00	0.10	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
517	0.600	29.00	0.10	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
518	0.500	29.00	0.10	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
519	0.400	29.00	0.10	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
520	0.300	29.00	0.10	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
521	0.200	29.00	0.10	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
522	0.100	29.00	0.10	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
523	0.000	29.00	0.10	15.75	175.35	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00

STREAM SUMMARY
Grand Bayou

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Summer Projection Natural (no man made loads) condtions

TRAVEL TIME	=	2099.07	DAYS		
MAXIMUM EFFLUENT	=	50.00	PERCENT		
FLOW	=	0.00300	TO	0.00600	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00006	TO	0.00022	m/s
DEPTH	=	1.00	TO	2.04	m
WIDTH	=	19.50	TO	36.70	m
BOD DECAY	=	0.08	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	1.13	TO	2.87	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.39	TO	0.79	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	=	29.00	TO	29.00	deg C
DISSOLVED OXYGEN	=	3.48	TO	4.53	mg/L

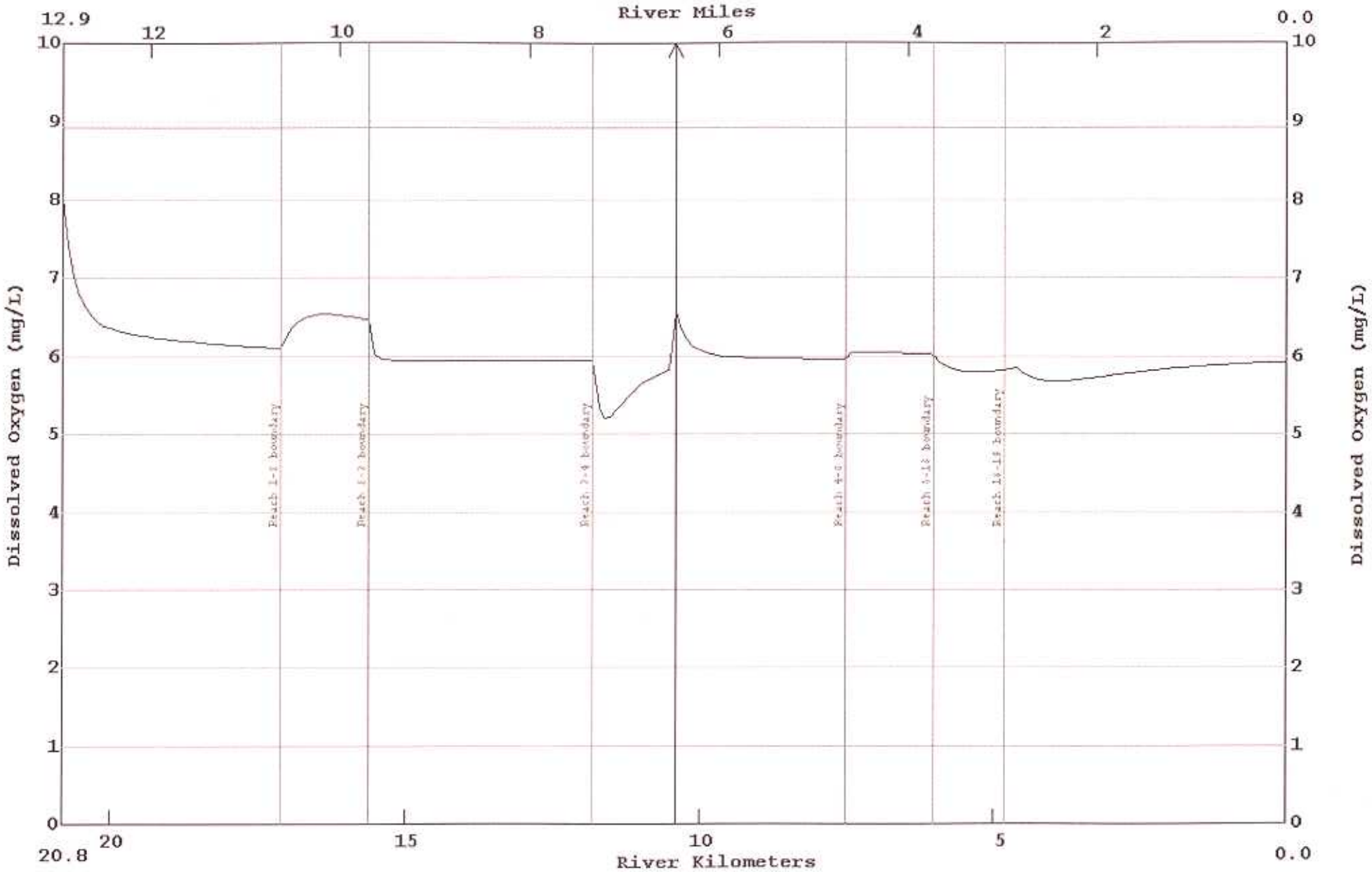
LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Summer Projection Natural (no man made loads) condtions

INPUT/OUTPUT LOADING SUMMARY

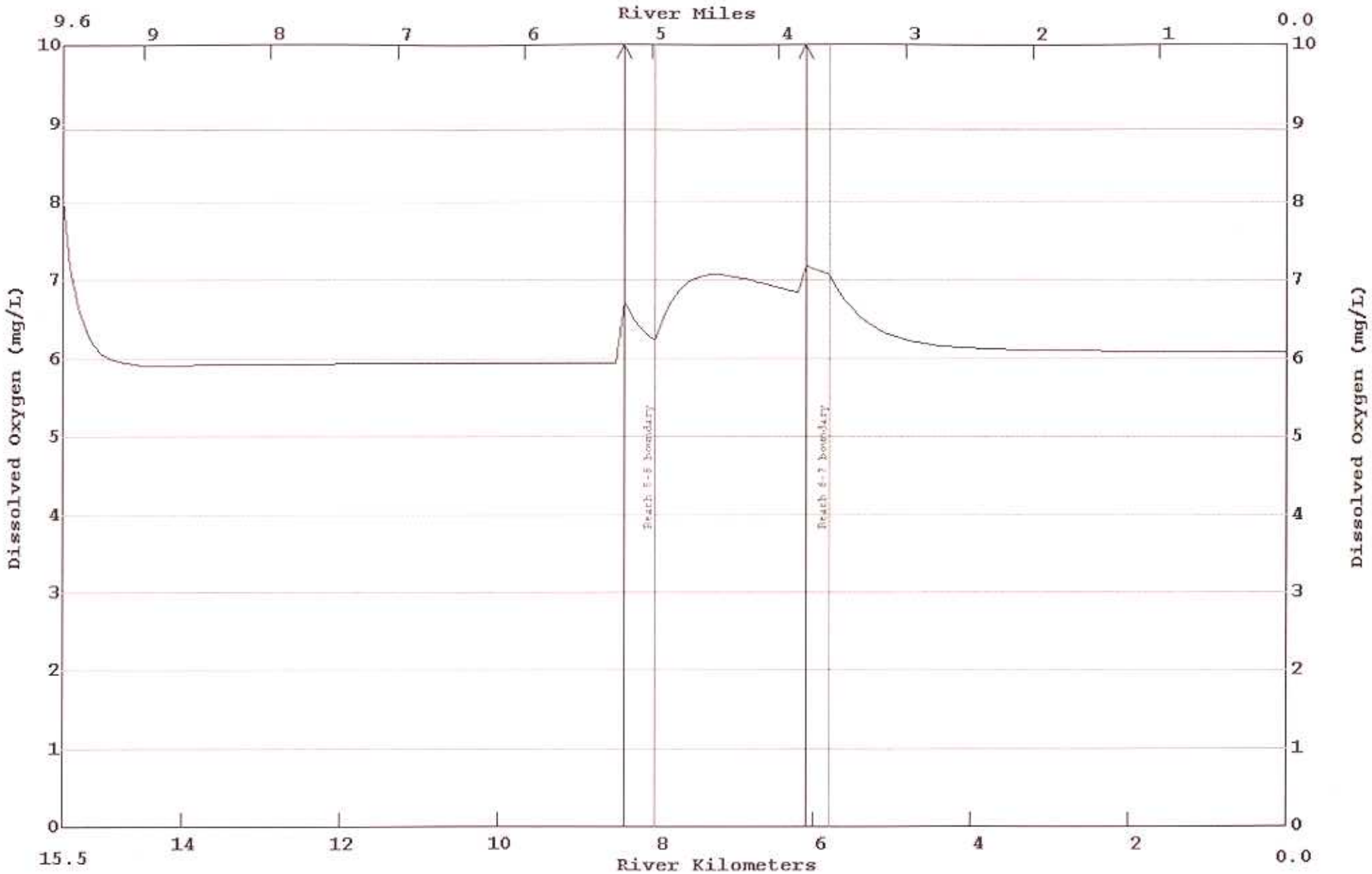
	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER INFLOW	0.009	5.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1
INCREMENTAL INFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	0.012	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	1.6
WITHDRAWLS	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OUTFLOW THRU LOWER BNDRY	-0.021	-7.5	-6.1	0.0	0.0	0.0	0.0	0.0	0.0	-1.3
DISPERSION THRU LOWER BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	9743.0	0.0	0.0					3883.0
NATURAL REAERATION		19343.5								
DAM REAERATION		0.0								
BACKGROUND SOD		-5715.2								
BOD#1 DECAY		-9749.3	-9749.3							
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		-3884.4								-3884.4
NCM SETTLING		0.0								0.0
TOTAL INPUTS	0.021	19356.1	9755.2	0.0	0.0	0.0	0.0	0.0	0.0	3885.7
TOTAL OUTPUTS	-0.021	-19356.5	-9755.3	0.0	0.0	0.0	0.0	0.0	0.0	-3885.7
NET CONVERGENCE ERROR	0.000	-0.4	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1

.....EXECUTION COMPLETED

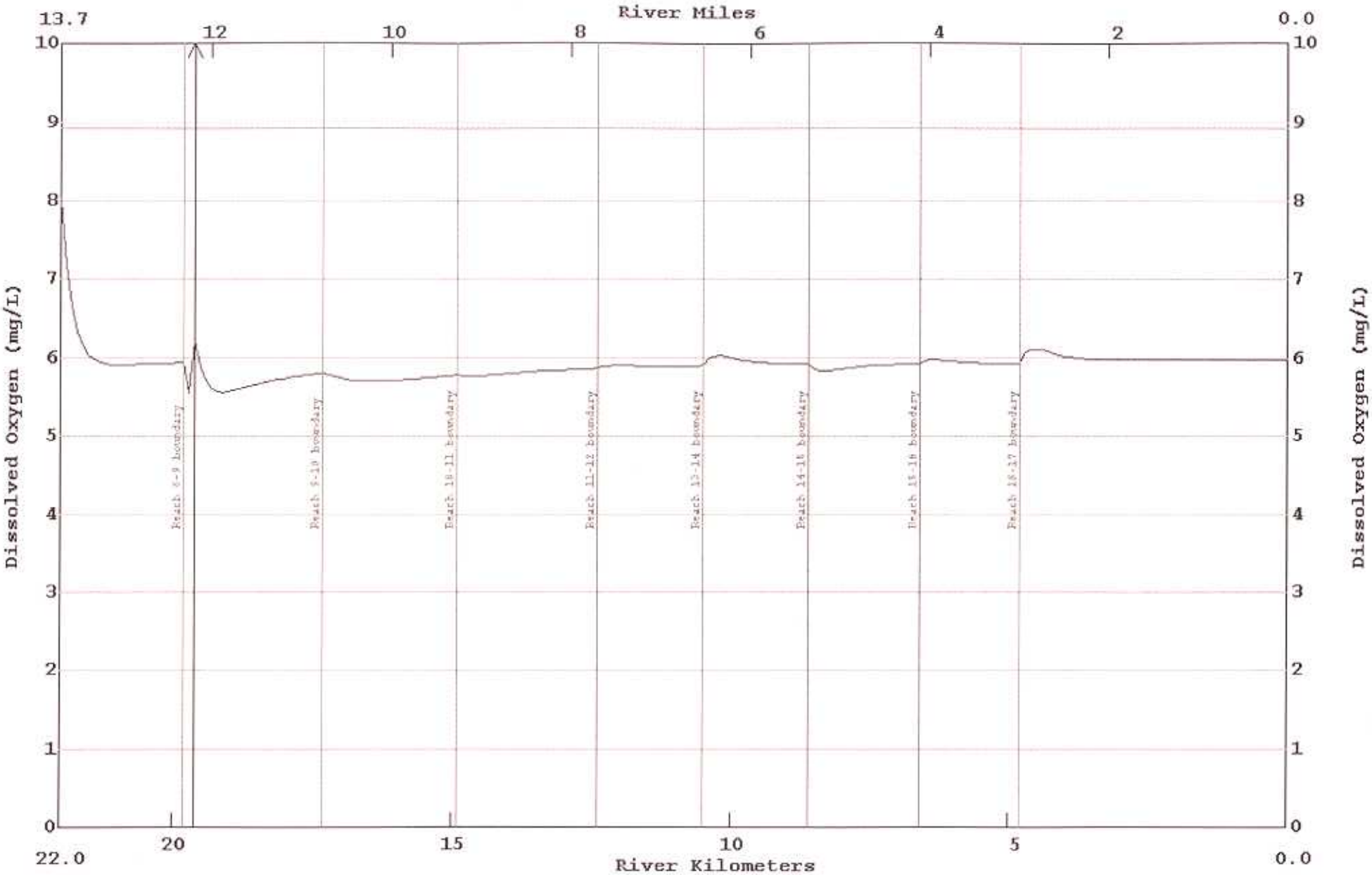
LA-QUAL Version 6.02 Run at 10:23 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\proj\winter\nat\bf_wint_nat.tx
Winter Projection Natural (no man made loads) condtions min= 5.19 max= 8.04
Main Stem



LA-QUAL Version 6.02 Run at 10:23 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\proj\winter\nat\bf_wint_nat.tx
Winter Projection Natural (no man made loads) condtions min= 5.91 max= 8.04
Halpin Canal



LA-QUAL Version 6.02 Run at 10:23 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\proj\winter\nat\bf_wint_nat.tx
Winter Projection Natural (no man made loads) condtions min= 5.56 max= 8.04
Grand Bayou



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

Input file is R:\projects\3110-051\la-qual\boeuf\proj\winter\nat\bf_wint_nat.txt
Output produced at 10:23 on 03/04/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
TITLE02         Winter Projection Natural (no man made loads) condtions
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	TC	Theriot Canal	20.80	TO	17.10	0.1000	3.70	37	1	37
REACH ID	2	TC	Theriot Canal	17.10	TO	15.60	0.1000	1.50	15	38	52
REACH ID	3	LB	Lake Boeuf	15.60	TO	11.80	0.1000	3.80	38	53	90
REACH ID	4	BB	Bayou Boeuf	11.80	TO	7.50	0.1000	4.30	43	91	133
REACH ID	5	HC	Halpin Canal	15.50	TO	8.00	0.1000	7.50	75	134	208
REACH ID	6	HC	Halpin Canal	8.00	TO	5.80	0.1000	2.20	22	209	230
REACH ID	7	HC	Halpin Canal	5.80	TO	0.00	0.1000	5.80	58	231	288
REACH ID	8	BB	Bayou Boeuf	7.50	TO	6.00	0.1000	1.50	15	289	303
REACH ID	9	GB	Grand Bayou	22.00	TO	19.80	0.1000	2.20	22	304	325
REACH ID	10	GB	Grand Bayou	19.80	TO	17.30	0.1000	2.50	25	326	350
REACH ID	11	GB	Grand Bayou	17.30	TO	14.90	0.1000	2.40	24	351	374
REACH ID	12	GB	Grand Bayou	14.90	TO	12.40	0.1000	2.50	25	375	399
REACH ID	13	GB	Grand Bayou	12.40	TO	10.50	0.1000	1.90	19	400	418
REACH ID	14	GB	Grand Bayou	10.50	TO	8.60	0.1000	1.90	19	419	437
REACH ID	15	GB	Grand Bayou	8.60	TO	6.60	0.1000	2.00	20	438	457
REACH ID	16	GB	Grand Bayou	6.60	TO	4.80	0.1000	1.80	18	458	475
REACH ID	17	GB	Grand Bayou	4.80	TO	0.00	0.1000	4.80	48	476	523
REACH ID	18	BB	Bayou Beouf	6.00	TO	4.60	0.1000	1.40	14	524	537
REACH ID	19	BB	Bayou Beouf	4.60	TO	0.00	0.1000	4.60	46	538	583

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	TC	0.000	0.000	20.900	0.000	0.000	0.560	0.00000	0.000
HYDR-1	2	TC	0.000	0.000	14.000	0.000	0.000	0.670	0.00000	0.000
HYDR-1	3	LB	0.000	0.000	1748.000	0.000	0.000	1.220	0.00000	0.000
HYDR-1	4	BB	0.000	0.000	47.850	0.000	0.000	1.325	0.00000	0.000
HYDR-1	5	HC	0.000	0.000	23.200	0.000	0.000	0.760	0.00000	0.000
HYDR-1	6	HC	0.000	0.000	23.800	0.000	0.000	1.050	0.00000	0.000
HYDR-1	7	HC	0.000	0.000	24.400	0.000	0.000	1.340	0.00000	0.000
HYDR-1	8	BB	0.000	0.000	41.500	0.000	0.000	1.710	0.00000	0.000
HYDR-1	9	GB	0.000	0.000	19.500	0.000	0.000	0.996	0.00000	0.000
HYDR-1	10	GB	0.000	0.000	32.500	0.000	0.000	1.515	0.00000	0.000
HYDR-1	11	GB	0.000	0.000	29.260	0.000	0.000	1.120	0.00000	0.000
HYDR-1	12	GB	0.000	0.000	22.250	0.000	0.000	1.235	0.00000	0.000
HYDR-1	13	GB	0.000	0.000	28.100	0.000	0.000	1.400	0.00000	0.000
HYDR-1	14	GB	0.000	0.000	36.700	0.000	0.000	1.585	0.00000	0.000
HYDR-1	15	GB	0.000	0.000	32.920	0.000	0.000	1.645	0.00000	0.000
HYDR-1	16	GB	0.000	0.000	35.350	0.000	0.000	1.520	0.00000	0.000
HYDR-1	17	GB	0.000	0.000	34.420	0.000	0.000	2.040	0.00000	0.000
HYDR-1	18	BB	0.000	0.000	69.030	0.000	0.000	1.850	0.00000	0.000
HYDR-1	19	BB	0.000	0.000	62.800	0.000	0.000	2.010	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"

ENDATA10

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

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	TC	20.88	0.12	5.70	0.00	0.00	0.00	0.00	0.00
INITIAL	2	TC	20.88	0.10	0.10	0.00	0.00	0.00	0.00	0.00
INITIAL	3	LB	20.88	0.10	0.10	0.00	0.00	0.00	0.00	0.00
INITIAL	4	BB	20.88	0.09	3.10	0.00	0.00	0.00	0.00	0.00
INITIAL	5	HC	20.88	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	6	HC	20.88	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	7	HC	20.88	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	8	BB	20.88	0.11	3.10	0.00	0.00	0.00	0.00	0.00
INITIAL	9	GB	20.88	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	10	GB	20.88	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	11	GB	20.88	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	12	GB	20.88	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	13	GB	20.88	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	14	GB	20.88	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	15	GB	20.88	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	16	GB	20.88	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	17	GB	20.88	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	18	BB	20.88	0.10	3.00	0.00	0.00	0.00	0.00	0.00
INITIAL	19	BB	20.88	0.10	3.00	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	TC	15 LOUISIANA	0.000	0.000	0.000	1.400	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	TC	15 LOUISIANA	0.000	0.000	0.000	0.930	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	LB	15 LOUISIANA	0.000	0.000	0.000	0.200	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	BB	15 LOUISIANA	0.000	0.000	0.000	0.900	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	HC	15 LOUISIANA	0.000	0.000	0.000	1.580	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	HC	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	7	HC	15 LOUISIANA	0.000	0.000	0.000	0.680	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	BB	15 LOUISIANA	0.000	0.000	0.000	0.400	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	GB	15 LOUISIANA	0.000	0.000	0.000	1.120	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	GB	15 LOUISIANA	0.000	0.000	0.000	1.370	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	11	GB	15 LOUISIANA	0.000	0.000	0.000	1.620	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	GB	15 LOUISIANA	0.000	0.000	0.000	1.630	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	GB	15 LOUISIANA	0.000	0.000	0.000	1.490	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	GB	15 LOUISIANA	0.000	0.000	0.000	1.160	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	15	GB	15 LOUISIANA	0.000	0.000	0.000	1.330	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	16	GB	15 LOUISIANA	0.000	0.000	0.000	1.280	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	17	GB	15 LOUISIANA	0.000	0.000	0.000	0.640	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	18	BB	15 LOUISIANA	0.000	0.000	0.000	0.890	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	19	BB	15 LOUISIANA	0.000	0.000	0.000	1.030	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     ORG-N   ORGN CONV       NH3       NH3      PHOS     DENIT
                                DECA      SETT  TO NH3 SRCE     DECA      SRCE      SRCE      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   TC       0.000     0.100     0.000     0.000
COEF-4           2   TC       0.000     0.100     0.000     0.000
COEF-4           3   LB       0.000     0.100     0.000     0.000
COEF-4           4   BB       0.000     0.100     0.000     0.000
COEF-4           5   HC       0.000     0.100     0.000     0.000
COEF-4           6   HC       0.000     0.100     0.000     0.000
COEF-4           7   HC       0.000     0.100     0.000     0.000
COEF-4           8   BB       0.000     0.100     0.000     0.000
COEF-4           9   GB       0.000     0.360     0.000     0.000
COEF-4          10   GB       0.000     0.360     0.000     0.000
COEF-4          11   GB       0.000     0.360     0.000     0.000
COEF-4          12   GB       0.000     0.360     0.000     0.000
COEF-4          13   GB       0.000     0.360     0.000     0.000
COEF-4          14   GB       0.000     0.360     0.000     0.000
COEF-4          15   GB       0.000     0.360     0.000     0.000
COEF-4          16   GB       0.000     0.360     0.000     0.000
COEF-4          17   GB       0.000     0.360     0.000     0.000
COEF-4          18   BB       0.000     0.100     0.000     0.000
COEF-4          19   BB       0.000     0.100     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	TC	34.00	0.00	0.00	13.00	0.00	0.00
NONPOINT	2	TC	17.00	0.00	0.00	6.00	0.00	0.00
NONPOINT	3	LB	8838.00	0.00	0.00	3128.00	0.00	0.00
NONPOINT	4	BB	183.00	0.00	0.00	42.00	0.00	0.00
NONPOINT	5	HC	55.00	0.00	0.00	17.00	0.00	0.00
NONPOINT	6	HC	72.00	0.00	0.00	10.00	0.00	0.00
NONPOINT	7	HC	156.00	0.00	0.00	31.00	0.00	0.00
NONPOINT	8	BB	60.00	0.00	0.00	40.00	0.00	0.00
NONPOINT	9	GB	14.00	0.00	0.00	24.00	0.00	0.00
NONPOINT	10	GB	20.00	0.00	0.00	31.00	0.00	0.00
NONPOINT	11	GB	0.00	0.00	0.00	27.00	0.00	0.00
NONPOINT	12	GB	0.00	0.00	0.00	21.00	0.00	0.00
NONPOINT	13	GB	0.00	0.00	0.00	27.00	0.00	0.00
NONPOINT	14	GB	0.00	0.00	0.00	58.00	0.00	0.00
NONPOINT	15	GB	0.00	0.00	0.00	44.00	0.00	0.00
NONPOINT	16	GB	0.00	0.00	0.00	46.00	0.00	0.00
NONPOINT	17	GB	0.00	0.00	0.00	224.00	0.00	0.00
NONPOINT	18	BB	89.00	0.00	0.00	18.00	0.00	0.00
NONPOINT	19	BB	205.00	0.00	0.00	76.00	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	Theriot Canal	0	0.02800	0.989	0.00	0.00	17.500	288.400
HDWTR-1	134	Halpin Canal	0	0.02800	0.989	0.00	0.00	29.100	245.200
HDWTR-1	304	Grand Bayou	0	0.02800	0.989	0.00	0.00	12.100	143.000

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	Theriot Canal	8.04	5.99	0.00	0.00	0.00	0.00
HDWTR-2	134	Halpin Canal	8.04	6.59	0.00	0.00	0.00	0.00
HDWTR-2	304	Grand Bayou	8.04	6.94	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	Theriot Canal	0.00	0.00	0.00	0.96
HDWTR-3	134	Halpin Canal	0.00	0.00	0.00	1.17
HWDTR-3	304	Grand Bayou	0.00	0.00	0.00	2.06

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME
JUNCTION	289	133	7.50	Halpin Canal
JUNCTION	524	303	6.00	Grand Bayou

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	104	10.50	Bowie Canal	0.02800	0.98870	0.639	0.00	0.00	36.600	199.200
WSTLD-1	204	8.50	Pitre Lening	0.02800	0.98870	0.639	0.00	0.00	24.200	201.400
WSTLD-1	227	6.20	Unnamed	0.02800	0.98870	0.639	0.00	0.00	24.200	201.400
WSTLD-1	327	19.70	Bayou Onion	0.02800	0.98870	0.639	0.00	0.00	19.400	207.700

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	104	Bowie Canal	8.04	7.64	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	204	Pitre Lening	8.04	6.53	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	227	Unnamed	8.04	6.53	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	327	Bayou Onion	8.04	6.93	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	104	Bowie Canal	0.00	0.00	0.00	1.36
WSTLD-3	204	Pitre Lening	0.00	0.00	0.00	1.35
WSTLD-3	227	Unnamed	0.00	0.00	0.00	1.35
WSTLD-3	327	Bayou Onion	0.00	0.00	0.00	2.07

ENDATA26

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

CARD TYPE	CONSTITUENT	CONCENTRATION

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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  2  3  4  8 18 19
NUMBER OF REACHES IN PLOT 2 =   3
PLOT RCH  5  6  7
NUMBER OF REACHES IN PLOT 3 =   9
PLOT RCH  9 10 11 12 13 14 15 16 17
ENDATA30

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


OVERLAY 1 MS_proj.ovl                       Main Stem
OVERLAY 2 HAL_proj.ovl                      Halpin Canal
OVERLAY 3 GB_proj.ovl                       Grand Bayou
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN  28 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 Theriot Canal

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	0.00	0.00	8.04	5.99	0.00	0.00	0.00	0.00							
20.70	0.02800	20.88	0.11	7.42	6.15	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
20.60	0.02800	20.88	0.11	7.03	6.31	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
20.50	0.02800	20.88	0.11	6.78	6.46	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
20.40	0.02800	20.88	0.11	6.62	6.61	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
20.30	0.02800	20.88	0.11	6.51	6.75	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
20.20	0.02800	20.88	0.11	6.44	6.89	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
20.10	0.02800	20.88	0.11	6.40	7.02	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
20.00	0.02800	20.88	0.11	6.36	7.15	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
19.90	0.02800	20.88	0.11	6.33	7.27	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
19.80	0.02800	20.88	0.11	6.31	7.39	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
19.70	0.02800	20.88	0.11	6.30	7.51	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
19.60	0.02800	20.88	0.11	6.28	7.62	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
19.50	0.02800	20.88	0.11	6.27	7.72	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
19.40	0.02800	20.88	0.11	6.26	7.83	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
19.30	0.02800	20.88	0.11	6.25	7.93	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
19.20	0.02800	20.88	0.11	6.24	8.03	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
19.10	0.02800	20.88	0.11	6.23	8.12	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
19.00	0.02800	20.88	0.11	6.22	8.21	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
18.90	0.02800	20.88	0.11	6.21	8.30	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
18.80	0.02800	20.88	0.11	6.20	8.38	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
18.70	0.02800	20.88	0.11	6.19	8.46	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
18.60	0.02800	20.88	0.11	6.18	8.54	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
18.50	0.02800	20.88	0.11	6.18	8.62	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
18.40	0.02800	20.88	0.11	6.17	8.69	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
18.30	0.02800	20.88	0.10	6.16	8.76	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
18.20	0.02800	20.88	0.10	6.16	8.83	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
18.10	0.02800	20.88	0.10	6.15	8.90	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
18.00	0.02800	20.88	0.10	6.14	8.96	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
17.90	0.02800	20.88	0.10	6.14	9.02	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
17.80	0.02800	20.88	0.10	6.13	9.08	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
17.70	0.02800	20.88	0.10	6.13	9.14	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
17.60	0.02800	20.88	0.10	6.12	9.19	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
17.50	0.02800	20.88	0.10	6.12	9.25	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
17.40	0.02800	20.88	0.10	6.11	9.30	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
17.30	0.02800	20.88	0.10	6.11	9.35	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
17.20	0.02800	20.88	0.10	6.11	9.40	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
17.10	0.02800	20.88	0.10	6.10	9.45	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.48
17.00	0.02800	20.88	0.10	6.26	9.64	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
16.90	0.02800	20.88	0.10	6.37	9.83	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
16.80	0.02800	20.88	0.10	6.45	10.02	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
16.70	0.02800	20.88	0.10	6.49	10.20	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
16.60	0.02800	20.88	0.10	6.52	10.37	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
16.50	0.02800	20.88	0.10	6.53	10.54	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
16.40	0.02800	20.88	0.10	6.54	10.71	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
16.30	0.02800	20.88	0.10	6.54	10.87	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
16.20	0.02800	20.88	0.10	6.53	11.03	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
16.10	0.02800	20.88	0.10	6.53	11.18	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
16.00	0.02800	20.88	0.10	6.52	11.33	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
15.90	0.02800	20.88	0.10	6.51	11.47	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98

15.80	0.02800	20.88	0.10	6.49	11.61	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
15.70	0.02800	20.88	0.10	6.48	11.75	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
15.60	0.02800	20.88	0.10	6.47	11.88	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.98
15.50	0.02800	20.88	0.10	6.02	14.55	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
15.40	0.02800	20.88	0.10	5.96	14.91	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
15.30	0.02800	20.88	0.10	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
15.20	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
15.10	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
15.00	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.90	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.80	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.70	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.60	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.50	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.40	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.30	0.02800	20.88	0.10	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.20	0.02800	20.88	0.10	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.10	0.02800	20.88	0.10	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.00	0.02800	20.88	0.10	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.90	0.02800	20.88	0.10	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.80	0.02800	20.88	0.10	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.70	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.60	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.50	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.40	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.30	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.20	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.10	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.00	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.90	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.80	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.70	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.60	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.50	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.40	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.30	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.20	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.10	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.00	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
11.90	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
11.80	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
11.70	0.02800	20.88	0.09	5.35	14.04	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.95
11.60	0.02800	20.88	0.09	5.19	13.27	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.95
11.50	0.02800	20.88	0.09	5.22	12.61	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.95
11.40	0.02800	20.88	0.09	5.30	12.07	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.95
11.30	0.02800	20.88	0.09	5.39	11.61	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.95
11.20	0.02800	20.88	0.09	5.48	11.23	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.95
11.10	0.02800	20.88	0.09	5.56	10.90	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.95
11.00	0.02800	20.88	0.09	5.62	10.63	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.95
10.90	0.02800	20.88	0.09	5.67	10.40	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.95
10.80	0.02800	20.88	0.09	5.72	10.21	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.95
10.70	0.02800	20.88	0.10	5.76	10.05	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.95
10.60	0.02800	20.88	0.10	5.79	9.92	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.95
10.50	0.02800	20.88	0.10	5.81	9.80	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.95
10.40	0.05600	20.88	0.10	6.56	8.76	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
10.30	0.05600	20.88	0.10	6.34	8.80	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95

10.20	0.05600	20.88	0.10	6.21	8.84	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
10.10	0.05600	20.88	0.10	6.13	8.87	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
10.00	0.05600	20.88	0.10	6.08	8.90	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
9.90	0.05600	20.88	0.10	6.05	8.93	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
9.80	0.05600	20.88	0.10	6.03	8.95	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
9.70	0.05600	20.88	0.10	6.01	8.97	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
9.60	0.05600	20.88	0.10	6.00	8.99	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
9.50	0.05600	20.88	0.10	6.00	9.01	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
9.40	0.05600	20.88	0.10	5.99	9.03	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
9.30	0.05600	20.88	0.10	5.99	9.05	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
9.20	0.05600	20.88	0.10	5.99	9.06	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
9.10	0.05600	20.88	0.10	5.98	9.07	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
9.00	0.05600	20.88	0.10	5.98	9.09	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
8.90	0.05600	20.88	0.10	5.98	9.10	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
8.80	0.05600	20.88	0.10	5.98	9.11	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
8.70	0.05600	20.88	0.10	5.98	9.11	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
8.60	0.05600	20.88	0.10	5.97	9.12	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
8.50	0.05600	20.88	0.11	5.97	9.13	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
8.40	0.05600	20.88	0.11	5.97	9.14	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
8.30	0.05600	20.88	0.11	5.97	9.14	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
8.20	0.05600	20.88	0.11	5.97	9.15	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
8.10	0.05600	20.88	0.11	5.97	9.15	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
8.00	0.05600	20.88	0.11	5.97	9.16	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
7.90	0.05600	20.88	0.11	5.97	9.16	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
7.80	0.05600	20.88	0.11	5.97	9.17	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
7.70	0.05600	20.88	0.11	5.97	9.17	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
7.60	0.05600	20.88	0.11	5.97	9.17	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
7.50	0.05600	20.88	0.11	5.96	9.18	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.95
7.40	0.14000	20.88	0.11	6.04	10.29	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
7.30	0.14000	20.88	0.11	6.05	10.19	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
7.20	0.14000	20.88	0.11	6.06	10.09	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
7.10	0.14000	20.88	0.11	6.06	9.99	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
7.00	0.14000	20.88	0.11	6.06	9.90	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
6.90	0.14000	20.88	0.11	6.05	9.81	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
6.80	0.14000	20.88	0.11	6.05	9.72	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
6.70	0.14000	20.88	0.10	6.05	9.64	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
6.60	0.14000	20.88	0.10	6.04	9.56	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
6.50	0.14000	20.88	0.10	6.04	9.49	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
6.40	0.14000	20.88	0.10	6.04	9.42	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
6.30	0.14000	20.88	0.10	6.03	9.35	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
6.20	0.14000	20.88	0.10	6.03	9.28	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
6.10	0.14000	20.88	0.10	6.03	9.22	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
6.00	0.14000	20.88	0.10	6.02	9.16	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.42
5.90	0.19600	20.88	0.10	5.93	6.56	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94
5.80	0.19600	20.88	0.10	5.88	6.57	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94
5.70	0.19600	20.88	0.10	5.84	6.58	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94
5.60	0.19600	20.88	0.10	5.82	6.60	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94
5.50	0.19600	20.88	0.10	5.80	6.61	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94
5.40	0.19600	20.88	0.10	5.80	6.62	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94
5.30	0.19600	20.88	0.10	5.79	6.63	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94
5.20	0.19600	20.88	0.10	5.80	6.64	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94
5.10	0.19600	20.88	0.10	5.80	6.65	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94
5.00	0.19600	20.88	0.10	5.81	6.66	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94
4.90	0.19600	20.88	0.10	5.82	6.67	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94
4.80	0.19600	20.88	0.10	5.83	6.68	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94
4.70	0.19600	20.88	0.10	5.84	6.69	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94

4.60	0.19600	20.88	0.10	5.85	6.69	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	0.94
4.50	0.19600	20.88	0.10	5.78	6.60	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
4.40	0.19600	20.88	0.10	5.74	6.51	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
4.30	0.19600	20.88	0.10	5.71	6.42	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
4.20	0.19600	20.88	0.10	5.69	6.34	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
4.10	0.19600	20.88	0.10	5.68	6.26	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
4.00	0.19600	20.88	0.10	5.67	6.19	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
3.90	0.19600	20.88	0.10	5.67	6.12	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
3.80	0.19600	20.88	0.10	5.68	6.05	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
3.70	0.19600	20.88	0.10	5.68	5.99	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
3.60	0.19600	20.88	0.10	5.69	5.93	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
3.50	0.19600	20.88	0.10	5.70	5.88	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
3.40	0.19600	20.88	0.10	5.71	5.82	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
3.30	0.19600	20.88	0.10	5.72	5.77	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
3.20	0.19600	20.88	0.10	5.73	5.73	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
3.10	0.19600	20.88	0.10	5.74	5.68	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
3.00	0.19600	20.88	0.10	5.75	5.64	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
2.90	0.19600	20.88	0.10	5.76	5.60	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
2.80	0.19600	20.88	0.10	5.77	5.56	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
2.70	0.19600	20.88	0.10	5.78	5.52	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
2.60	0.19600	20.88	0.10	5.79	5.49	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
2.50	0.19600	20.88	0.10	5.80	5.45	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
2.40	0.19600	20.88	0.10	5.81	5.42	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
2.30	0.19600	20.88	0.10	5.82	5.39	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
2.20	0.19600	20.88	0.10	5.83	5.36	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
2.10	0.19600	20.88	0.10	5.83	5.34	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
2.00	0.19600	20.88	0.10	5.84	5.31	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
1.90	0.19600	20.88	0.10	5.85	5.29	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
1.80	0.19600	20.88	0.10	5.86	5.26	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
1.70	0.19600	20.88	0.10	5.86	5.24	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
1.60	0.19600	20.88	0.10	5.87	5.22	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
1.50	0.19600	20.88	0.10	5.87	5.20	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
1.40	0.19600	20.88	0.10	5.88	5.18	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
1.30	0.19600	20.88	0.10	5.88	5.17	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
1.20	0.19600	20.88	0.10	5.89	5.15	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
1.10	0.19600	20.88	0.10	5.89	5.13	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
1.00	0.19600	20.88	0.10	5.90	5.12	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
0.90	0.19600	20.88	0.10	5.90	5.10	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
0.80	0.19600	20.88	0.10	5.91	5.09	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
0.70	0.19600	20.88	0.10	5.91	5.08	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
0.60	0.19600	20.88	0.10	5.91	5.07	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
0.50	0.19600	20.88	0.10	5.92	5.06	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
0.40	0.19600	20.88	0.10	5.92	5.04	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
0.30	0.19600	20.88	0.10	5.92	5.03	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
0.20	0.19600	20.88	0.10	5.93	5.02	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
0.10	0.19600	20.88	0.10	5.93	5.01	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09
0.00	0.19600	20.88	0.10	5.93	5.01	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.09

CONDENSED CAPSULE SUMMARY FOR Halpin Canal

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	0.00	0.00	8.04	6.59	0.00	0.00	0.00	0.00							

15.40	0.02800	20.88	0.12	7.18	6.55	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
15.30	0.02800	20.88	0.12	6.66	6.50	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
15.20	0.02800	20.88	0.12	6.35	6.46	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
15.10	0.02800	20.88	0.12	6.17	6.42	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
15.00	0.02800	20.88	0.12	6.06	6.39	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
14.90	0.02800	20.88	0.12	5.99	6.35	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
14.80	0.02800	20.88	0.12	5.96	6.32	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
14.70	0.02800	20.88	0.12	5.94	6.29	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
14.60	0.02800	20.88	0.12	5.92	6.26	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
14.50	0.02800	20.88	0.12	5.92	6.23	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
14.40	0.02800	20.88	0.12	5.91	6.21	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
14.30	0.02800	20.88	0.12	5.91	6.18	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
14.20	0.02800	20.88	0.12	5.91	6.16	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
14.10	0.02800	20.88	0.12	5.91	6.13	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
14.00	0.02800	20.88	0.12	5.91	6.11	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
13.90	0.02800	20.88	0.12	5.92	6.09	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
13.80	0.02800	20.88	0.12	5.92	6.07	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
13.70	0.02800	20.88	0.12	5.92	6.05	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
13.60	0.02800	20.88	0.12	5.92	6.04	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
13.50	0.02800	20.88	0.12	5.92	6.02	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
13.40	0.02800	20.88	0.12	5.92	6.00	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
13.30	0.02800	20.88	0.12	5.92	5.99	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
13.20	0.02800	20.88	0.12	5.92	5.98	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
13.10	0.02800	20.88	0.12	5.93	5.96	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
13.00	0.02800	20.88	0.12	5.93	5.95	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
12.90	0.02800	20.88	0.12	5.93	5.94	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
12.80	0.02800	20.88	0.12	5.93	5.92	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
12.70	0.02800	20.88	0.12	5.93	5.91	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
12.60	0.02800	20.88	0.12	5.93	5.90	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
12.50	0.02800	20.88	0.12	5.93	5.89	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
12.40	0.02800	20.88	0.12	5.93	5.88	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
12.30	0.02800	20.88	0.12	5.93	5.88	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
12.20	0.02800	20.88	0.12	5.93	5.87	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
12.10	0.02800	20.88	0.12	5.93	5.86	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
12.00	0.02800	20.88	0.12	5.93	5.85	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
11.90	0.02800	20.88	0.12	5.94	5.84	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
11.80	0.02800	20.88	0.12	5.94	5.84	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
11.70	0.02800	20.88	0.12	5.94	5.83	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
11.60	0.02800	20.88	0.12	5.94	5.82	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
11.50	0.02800	20.88	0.12	5.94	5.82	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
11.40	0.02800	20.88	0.12	5.94	5.81	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
11.30	0.02800	20.88	0.12	5.94	5.81	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
11.20	0.02800	20.88	0.12	5.94	5.80	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
11.10	0.02800	20.88	0.12	5.94	5.80	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
11.00	0.02800	20.88	0.12	5.94	5.79	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
10.90	0.02800	20.88	0.12	5.94	5.79	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
10.80	0.02800	20.88	0.12	5.94	5.78	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
10.70	0.02800	20.88	0.12	5.94	5.78	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
10.60	0.02800	20.88	0.12	5.94	5.78	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
10.50	0.02800	20.88	0.12	5.94	5.77	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
10.40	0.02800	20.88	0.12	5.94	5.77	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
10.30	0.02800	20.88	0.12	5.94	5.77	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
10.20	0.02800	20.88	0.12	5.94	5.76	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
10.10	0.02800	20.88	0.12	5.94	5.76	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
10.00	0.02800	20.88	0.12	5.94	5.76	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
9.90	0.02800	20.88	0.12	5.94	5.76	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67

9.80	0.02800	20.88	0.12	5.94	5.75	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
9.70	0.02800	20.88	0.12	5.94	5.75	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
9.60	0.02800	20.88	0.12	5.94	5.75	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
9.50	0.02800	20.88	0.12	5.94	5.75	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
9.40	0.02800	20.88	0.12	5.94	5.74	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
9.30	0.02800	20.88	0.12	5.94	5.74	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
9.20	0.02800	20.88	0.12	5.94	5.74	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
9.10	0.02800	20.88	0.12	5.94	5.74	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
9.00	0.02800	20.88	0.12	5.94	5.74	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
8.90	0.02800	20.88	0.12	5.94	5.74	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
8.80	0.02800	20.88	0.12	5.94	5.73	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
8.70	0.02800	20.88	0.12	5.94	5.73	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
8.60	0.02800	20.88	0.12	5.94	5.73	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
8.50	0.02800	20.88	0.12	5.95	5.73	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.67
8.40	0.05600	20.88	0.12	6.74	6.12	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	1.67
8.30	0.05600	20.88	0.12	6.55	6.11	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	1.67
8.20	0.05600	20.88	0.12	6.41	6.10	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	1.67
8.10	0.05600	20.88	0.12	6.31	6.09	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	1.67
8.00	0.05600	20.88	0.12	6.23	6.08	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	1.67
7.90	0.05600	20.88	0.12	6.53	6.51	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
7.80	0.05600	20.88	0.12	6.73	6.93	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
7.70	0.05600	20.88	0.12	6.88	7.33	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
7.60	0.05600	20.88	0.12	6.97	7.71	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
7.50	0.05600	20.88	0.12	7.03	8.08	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
7.40	0.05600	20.88	0.12	7.06	8.44	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
7.30	0.05600	20.88	0.12	7.08	8.79	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
7.20	0.05600	20.88	0.12	7.08	9.12	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
7.10	0.05600	20.88	0.12	7.07	9.44	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
7.00	0.05600	20.88	0.12	7.05	9.75	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
6.90	0.05600	20.88	0.12	7.03	10.05	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
6.80	0.05600	20.88	0.12	7.01	10.34	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
6.70	0.05600	20.88	0.12	6.98	10.61	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
6.60	0.05600	20.88	0.12	6.95	10.88	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
6.50	0.05600	20.88	0.12	6.93	11.14	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
6.40	0.05600	20.88	0.12	6.90	11.39	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
6.30	0.05600	20.88	0.12	6.87	11.62	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
6.20	0.05600	20.88	0.12	6.84	11.85	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.45
6.10	0.08400	20.88	0.12	7.19	10.27	0.00	0.00	0.00	0.00	0.69	0.07	0.00	0.00	0.00	0.00	0.45
6.00	0.08400	20.88	0.12	7.15	10.46	0.00	0.00	0.00	0.00	0.69	0.07	0.00	0.00	0.00	0.00	0.45
5.90	0.08400	20.88	0.12	7.11	10.64	0.00	0.00	0.00	0.00	0.69	0.07	0.00	0.00	0.00	0.00	0.45
5.80	0.08400	20.88	0.12	7.08	10.82	0.00	0.00	0.00	0.00	0.69	0.07	0.00	0.00	0.00	0.00	0.45
5.70	0.08400	20.88	0.12	6.89	10.84	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
5.60	0.08400	20.88	0.12	6.75	10.85	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
5.50	0.08400	20.88	0.12	6.63	10.87	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
5.40	0.08400	20.88	0.12	6.53	10.88	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
5.30	0.08400	20.88	0.12	6.45	10.89	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
5.20	0.08400	20.88	0.12	6.39	10.91	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
5.10	0.08400	20.88	0.12	6.34	10.92	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
5.00	0.08400	20.88	0.12	6.30	10.93	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
4.90	0.08400	20.88	0.12	6.26	10.94	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
4.80	0.08400	20.88	0.12	6.23	10.95	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
4.70	0.08400	20.88	0.12	6.21	10.96	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
4.60	0.08400	20.88	0.12	6.19	10.97	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
4.50	0.08400	20.88	0.12	6.18	10.98	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
4.40	0.08400	20.88	0.12	6.16	10.99	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
4.30	0.08400	20.88	0.12	6.15	11.00	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72

4.20	0.08400	20.88	0.12	6.14	11.01	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
4.10	0.08400	20.88	0.12	6.14	11.02	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
4.00	0.08400	20.88	0.12	6.13	11.03	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
3.90	0.08400	20.88	0.12	6.13	11.04	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
3.80	0.08400	20.88	0.12	6.12	11.04	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
3.70	0.08400	20.88	0.12	6.12	11.05	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
3.60	0.08400	20.88	0.12	6.11	11.06	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
3.50	0.08400	20.88	0.12	6.11	11.07	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
3.40	0.08400	20.88	0.12	6.11	11.07	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
3.30	0.08400	20.88	0.12	6.11	11.08	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
3.20	0.08400	20.88	0.12	6.11	11.09	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
3.10	0.08400	20.88	0.12	6.10	11.09	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
3.00	0.08400	20.88	0.12	6.10	11.10	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
2.90	0.08400	20.88	0.12	6.10	11.11	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
2.80	0.08400	20.88	0.12	6.10	11.11	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
2.70	0.08400	20.88	0.12	6.10	11.12	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
2.60	0.08400	20.88	0.12	6.10	11.12	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
2.50	0.08400	20.88	0.12	6.10	11.13	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
2.40	0.08400	20.88	0.12	6.09	11.13	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
2.30	0.08400	20.88	0.12	6.09	11.14	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
2.20	0.08400	20.88	0.12	6.09	11.14	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
2.10	0.08400	20.88	0.12	6.09	11.15	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
2.00	0.08400	20.88	0.12	6.09	11.15	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
1.90	0.08400	20.88	0.11	6.09	11.16	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
1.80	0.08400	20.88	0.11	6.09	11.16	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
1.70	0.08400	20.88	0.11	6.09	11.16	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
1.60	0.08400	20.88	0.11	6.09	11.17	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
1.50	0.08400	20.88	0.11	6.09	11.17	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
1.40	0.08400	20.88	0.11	6.09	11.17	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
1.30	0.08400	20.88	0.11	6.09	11.18	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
1.20	0.08400	20.88	0.11	6.09	11.18	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
1.10	0.08400	20.88	0.11	6.09	11.19	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
1.00	0.08400	20.88	0.11	6.08	11.19	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
0.90	0.08400	20.88	0.11	6.08	11.19	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
0.80	0.08400	20.88	0.11	6.08	11.19	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
0.70	0.08400	20.88	0.11	6.08	11.20	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
0.60	0.08400	20.88	0.11	6.08	11.20	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
0.50	0.08400	20.88	0.11	6.08	11.20	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
0.40	0.08400	20.88	0.11	6.08	11.21	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
0.30	0.08400	20.88	0.11	6.08	11.21	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
0.20	0.08400	20.88	0.11	6.08	11.21	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
0.10	0.08400	20.88	0.11	6.08	11.21	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72
0.00	0.08400	20.88	0.11	6.08	11.22	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.72

CONDENSED CAPSULE SUMMARY FOR Grand Bayou

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	0.00	0.00	8.04	6.94	0.00	0.00	0.00	0.00							
21.90	0.02800	20.88	0.08	7.19	6.91	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
21.80	0.02800	20.88	0.08	6.66	6.89	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
21.70	0.02800	20.88	0.08	6.34	6.87	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
21.60	0.02800	20.88	0.08	6.15	6.84	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18

21.50	0.02800	20.88	0.08	6.04	6.82	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
21.40	0.02800	20.88	0.08	5.97	6.80	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
21.30	0.02800	20.88	0.08	5.94	6.78	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
21.20	0.02800	20.88	0.08	5.92	6.76	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
21.10	0.02800	20.88	0.08	5.91	6.74	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
21.00	0.02800	20.88	0.08	5.91	6.72	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
20.90	0.02800	20.88	0.08	5.91	6.71	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
20.80	0.02800	20.88	0.08	5.91	6.69	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
20.70	0.02800	20.88	0.08	5.92	6.67	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
20.60	0.02800	20.88	0.08	5.92	6.66	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
20.50	0.02800	20.88	0.08	5.92	6.64	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
20.40	0.02800	20.88	0.08	5.93	6.63	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
20.30	0.02800	20.88	0.08	5.93	6.62	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
20.20	0.02800	20.88	0.08	5.93	6.60	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
20.10	0.02800	20.88	0.08	5.93	6.59	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
20.00	0.02800	20.88	0.08	5.93	6.58	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
19.90	0.02800	20.88	0.08	5.94	6.57	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
19.80	0.02800	20.88	0.08	5.94	6.56	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.18
19.70	0.02800	20.88	0.08	5.56	6.23	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.45
19.60	0.05600	20.88	0.08	6.23	6.40	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
19.50	0.05600	20.88	0.08	5.89	6.24	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
19.40	0.05600	20.88	0.08	5.71	6.08	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
19.30	0.05600	20.88	0.08	5.61	5.93	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
19.20	0.05600	20.88	0.08	5.57	5.79	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
19.10	0.05600	20.88	0.08	5.56	5.66	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
19.00	0.05600	20.88	0.08	5.56	5.53	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
18.90	0.05600	20.88	0.08	5.58	5.41	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
18.80	0.05600	20.88	0.08	5.60	5.29	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
18.70	0.05600	20.88	0.08	5.62	5.18	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
18.60	0.05600	20.88	0.08	5.64	5.08	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
18.50	0.05600	20.88	0.08	5.66	4.98	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
18.40	0.05600	20.88	0.08	5.68	4.89	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
18.30	0.05600	20.88	0.08	5.70	4.80	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
18.20	0.05600	20.88	0.08	5.71	4.71	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
18.10	0.05600	20.88	0.08	5.73	4.63	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
18.00	0.05600	20.88	0.08	5.74	4.56	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
17.90	0.05600	20.88	0.08	5.75	4.49	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
17.80	0.05600	20.88	0.08	5.76	4.42	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
17.70	0.05600	20.88	0.08	5.77	4.35	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
17.60	0.05600	20.88	0.08	5.78	4.29	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
17.50	0.05600	20.88	0.08	5.79	4.23	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
17.40	0.05600	20.88	0.08	5.80	4.18	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
17.30	0.05600	20.88	0.08	5.80	4.12	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.45
17.20	0.05600	20.88	0.08	5.78	3.98	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
17.10	0.05600	20.88	0.08	5.76	3.85	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
17.00	0.05600	20.88	0.08	5.74	3.72	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
16.90	0.05600	20.88	0.08	5.73	3.59	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
16.80	0.05600	20.88	0.08	5.72	3.47	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
16.70	0.05600	20.88	0.08	5.71	3.35	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
16.60	0.05600	20.88	0.08	5.71	3.23	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
16.50	0.05600	20.88	0.08	5.71	3.12	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
16.40	0.05600	20.88	0.08	5.71	3.02	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
16.30	0.05600	20.88	0.08	5.71	2.92	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
16.20	0.05600	20.88	0.08	5.71	2.82	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
16.10	0.05600	20.88	0.08	5.71	2.72	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
16.00	0.05600	20.88	0.08	5.72	2.63	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71

15.90	0.05600	20.88	0.08	5.72	2.54	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
15.80	0.05600	20.88	0.08	5.73	2.45	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
15.70	0.05600	20.88	0.08	5.73	2.37	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
15.60	0.05600	20.88	0.08	5.74	2.29	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
15.50	0.05600	20.88	0.08	5.74	2.21	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
15.40	0.05600	20.88	0.08	5.75	2.13	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
15.30	0.05600	20.88	0.08	5.75	2.06	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
15.20	0.05600	20.88	0.08	5.76	1.99	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
15.10	0.05600	20.88	0.08	5.77	1.92	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
15.00	0.05600	20.88	0.08	5.77	1.86	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
14.90	0.05600	20.88	0.08	5.78	1.79	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.71
14.80	0.05600	20.88	0.08	5.77	1.74	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
14.70	0.05600	20.88	0.08	5.76	1.69	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
14.60	0.05600	20.88	0.08	5.77	1.64	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
14.50	0.05600	20.88	0.08	5.77	1.60	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
14.40	0.05600	20.88	0.08	5.77	1.55	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
14.30	0.05600	20.88	0.08	5.78	1.51	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
14.20	0.05600	20.88	0.08	5.78	1.46	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
14.10	0.05600	20.88	0.08	5.79	1.42	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
14.00	0.05600	20.88	0.08	5.80	1.38	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
13.90	0.05600	20.88	0.08	5.80	1.34	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
13.80	0.05600	20.88	0.08	5.81	1.30	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
13.70	0.05600	20.88	0.08	5.81	1.26	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
13.60	0.05600	20.88	0.08	5.82	1.23	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
13.50	0.05600	20.88	0.08	5.82	1.19	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
13.40	0.05600	20.88	0.08	5.83	1.16	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
13.30	0.05600	20.88	0.08	5.83	1.13	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
13.20	0.05600	20.88	0.08	5.84	1.09	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
13.10	0.05600	20.88	0.08	5.84	1.06	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
13.00	0.05600	20.88	0.08	5.85	1.03	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
12.90	0.05600	20.88	0.08	5.85	1.00	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
12.80	0.05600	20.88	0.08	5.85	0.97	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
12.70	0.05600	20.88	0.08	5.86	0.95	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
12.60	0.05600	20.88	0.08	5.86	0.92	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
12.50	0.05600	20.88	0.08	5.86	0.89	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
12.40	0.05600	20.88	0.08	5.86	0.87	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.72
12.30	0.05600	20.88	0.08	5.89	0.83	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
12.20	0.05600	20.88	0.08	5.90	0.80	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
12.10	0.05600	20.88	0.08	5.90	0.76	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
12.00	0.05600	20.88	0.08	5.90	0.73	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
11.90	0.05600	20.88	0.08	5.90	0.70	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
11.80	0.05600	20.88	0.08	5.90	0.68	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
11.70	0.05600	20.88	0.08	5.90	0.65	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
11.60	0.05600	20.88	0.08	5.90	0.62	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
11.50	0.05600	20.88	0.08	5.89	0.60	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
11.40	0.05600	20.88	0.08	5.89	0.57	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
11.30	0.05600	20.88	0.08	5.89	0.55	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
11.20	0.05600	20.88	0.08	5.89	0.53	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
11.10	0.05600	20.88	0.08	5.89	0.51	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
11.00	0.05600	20.88	0.08	5.89	0.48	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
10.90	0.05600	20.88	0.08	5.89	0.47	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
10.80	0.05600	20.88	0.08	5.90	0.45	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
10.70	0.05600	20.88	0.08	5.90	0.43	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
10.60	0.05600	20.88	0.08	5.90	0.41	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
10.50	0.05600	20.88	0.08	5.90	0.39	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.57
10.40	0.05600	20.88	0.08	5.99	0.37	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23

10.30	0.05600	20.88	0.08	6.02	0.35	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
10.20	0.05600	20.88	0.08	6.02	0.33	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
10.10	0.05600	20.88	0.08	6.01	0.31	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
10.00	0.05600	20.88	0.08	6.00	0.29	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
9.90	0.05600	20.88	0.08	5.98	0.27	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
9.80	0.05600	20.88	0.08	5.97	0.26	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
9.70	0.05600	20.88	0.08	5.96	0.24	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
9.60	0.05600	20.88	0.08	5.95	0.23	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
9.50	0.05600	20.88	0.08	5.94	0.21	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
9.40	0.05600	20.88	0.08	5.94	0.20	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
9.30	0.05600	20.88	0.08	5.93	0.19	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
9.20	0.05600	20.88	0.08	5.93	0.18	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
9.10	0.05600	20.88	0.08	5.93	0.17	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
9.00	0.05600	20.88	0.08	5.93	0.16	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
8.90	0.05600	20.88	0.08	5.93	0.15	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
8.80	0.05600	20.88	0.08	5.93	0.14	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
8.70	0.05600	20.88	0.08	5.93	0.13	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
8.60	0.05600	20.88	0.08	5.93	0.12	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.23
8.50	0.05600	20.88	0.08	5.86	0.12	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
8.40	0.05600	20.88	0.08	5.84	0.11	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
8.30	0.05600	20.88	0.08	5.83	0.10	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
8.20	0.05600	20.88	0.08	5.84	0.10	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
8.10	0.05600	20.88	0.08	5.85	0.09	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
8.00	0.05600	20.88	0.08	5.86	0.09	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
7.90	0.05600	20.88	0.08	5.87	0.08	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
7.80	0.05600	20.88	0.08	5.88	0.08	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
7.70	0.05600	20.88	0.08	5.89	0.07	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
7.60	0.05600	20.88	0.08	5.90	0.07	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
7.50	0.05600	20.88	0.08	5.90	0.07	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
7.40	0.05600	20.88	0.08	5.91	0.06	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
7.30	0.05600	20.88	0.08	5.91	0.06	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
7.20	0.05600	20.88	0.08	5.91	0.06	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
7.10	0.05600	20.88	0.08	5.92	0.05	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
7.00	0.05600	20.88	0.08	5.92	0.05	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
6.90	0.05600	20.88	0.08	5.92	0.05	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
6.80	0.05600	20.88	0.08	5.92	0.04	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
6.70	0.05600	20.88	0.08	5.92	0.04	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
6.60	0.05600	20.88	0.08	5.92	0.04	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.41
6.50	0.05600	20.88	0.08	5.96	0.04	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
6.40	0.05600	20.88	0.08	5.97	0.04	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
6.30	0.05600	20.88	0.08	5.97	0.03	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
6.20	0.05600	20.88	0.08	5.97	0.03	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
6.10	0.05600	20.88	0.08	5.96	0.03	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
6.00	0.05600	20.88	0.08	5.95	0.03	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
5.90	0.05600	20.88	0.08	5.95	0.03	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
5.80	0.05600	20.88	0.08	5.94	0.03	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
5.70	0.05600	20.88	0.08	5.94	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
5.60	0.05600	20.88	0.08	5.94	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
5.50	0.05600	20.88	0.08	5.93	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
5.40	0.05600	20.88	0.08	5.93	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
5.30	0.05600	20.88	0.08	5.93	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
5.20	0.05600	20.88	0.08	5.93	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
5.10	0.05600	20.88	0.08	5.93	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
5.00	0.05600	20.88	0.08	5.93	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
4.90	0.05600	20.88	0.08	5.93	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35
4.80	0.05600	20.88	0.08	5.93	0.01	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.35

4.70	0.05600	20.88	0.08	6.06	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
4.60	0.05600	20.88	0.08	6.11	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
4.50	0.05600	20.88	0.08	6.11	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
4.40	0.05600	20.88	0.08	6.10	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
4.30	0.05600	20.88	0.08	6.08	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
4.20	0.05600	20.88	0.08	6.06	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
4.10	0.05600	20.88	0.08	6.04	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
4.00	0.05600	20.88	0.08	6.02	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
3.90	0.05600	20.88	0.08	6.01	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
3.80	0.05600	20.88	0.08	6.00	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
3.70	0.05600	20.88	0.08	5.99	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
3.60	0.05600	20.88	0.09	5.99	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
3.50	0.05600	20.88	0.09	5.98	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
3.40	0.05600	20.88	0.09	5.98	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
3.30	0.05600	20.88	0.09	5.98	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
3.20	0.05600	20.88	0.09	5.98	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
3.10	0.05600	20.88	0.09	5.98	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
3.00	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
2.90	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
2.80	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
2.70	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
2.60	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
2.50	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
2.40	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
2.30	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
2.20	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
2.10	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
2.00	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
1.90	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
1.80	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
1.70	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
1.60	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
1.50	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
1.40	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
1.30	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
1.20	0.05600	20.88	0.09	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
1.10	0.05600	20.88	0.10	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
1.00	0.05600	20.88	0.10	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
0.90	0.05600	20.88	0.10	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
0.80	0.05600	20.88	0.10	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
0.70	0.05600	20.88	0.10	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
0.60	0.05600	20.88	0.10	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
0.50	0.05600	20.88	0.10	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
0.40	0.05600	20.88	0.10	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
0.30	0.05600	20.88	0.10	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
0.20	0.05600	20.88	0.10	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
0.10	0.05600	20.88	0.10	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68
0.00	0.05600	20.88	0.10	5.97	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.68

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 1 Theriot Canal Winter Projection Natural (no man made loads) condtions

********** 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	0.00	0.00	17.50	288.40	8.04	5.99	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96

********** 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	20.80	20.70	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
2	20.70	20.60	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
3	20.60	20.50	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
4	20.50	20.40	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
5	20.40	20.30	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
6	20.30	20.20	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
7	20.20	20.10	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
8	20.10	20.00	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
9	20.00	19.90	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
10	19.90	19.80	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
11	19.80	19.70	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
12	19.70	19.60	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
13	19.60	19.50	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
14	19.50	19.40	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
15	19.40	19.30	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
16	19.30	19.20	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
17	19.20	19.10	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
18	19.10	19.00	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
19	19.00	18.90	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
20	18.90	18.80	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
21	18.80	18.70	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
22	18.70	18.60	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
23	18.60	18.50	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
24	18.50	18.40	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
25	18.40	18.30	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
26	18.30	18.20	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
27	18.20	18.10	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
28	18.10	18.00	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
29	18.00	17.90	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
30	17.90	17.80	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
31	17.80	17.70	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
32	17.70	17.60	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
33	17.60	17.50	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
34	17.50	17.40	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
35	17.40	17.30	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
36	17.30	17.20	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
37	17.20	17.10	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
TOT						17.90			43304.79	77330.00					
AVG					0.00239		0.56	20.90			11.70				
CUM						17.90									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	20.700	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
2	20.600	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
3	20.500	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
4	20.400	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
5	20.300	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
6	20.200	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
7	20.100	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
8	20.000	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
9	19.900	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
10	19.800	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
11	19.700	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
12	19.600	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
13	19.500	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
14	19.400	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
15	19.300	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
16	19.200	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
17	19.100	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
18	19.000	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
19	18.900	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
20	18.800	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
21	18.700	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
22	18.600	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
23	18.500	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
24	18.400	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
25	18.300	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
26	18.200	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
27	18.100	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
28	18.000	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
29	17.900	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
30	17.800	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
31	17.700	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
32	17.600	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
33	17.500	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
34	17.400	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
35	17.300	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
36	17.200	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
37	17.100	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			1.25	0.07	0.00	0.00	0.00	0.00	0.00	1.40			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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	20.700	20.88	0.11	17.50	288.40	7.42	6.15	0.00	6.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.05
2	20.600	20.88	0.11	17.50	288.40	7.03	6.31	0.00	6.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
3	20.500	20.88	0.11	17.50	288.40	6.78	6.46	0.00	6.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.22

4	20.400	20.88	0.11	17.50	288.40	6.62	6.61	0.00	6.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
5	20.300	20.88	0.11	17.50	288.40	6.51	6.75	0.00	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
6	20.200	20.88	0.11	17.50	288.40	6.44	6.89	0.00	6.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
7	20.100	20.88	0.11	17.50	288.40	6.40	7.02	0.00	7.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.51
8	20.000	20.88	0.11	17.50	288.40	6.36	7.15	0.00	7.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.58
9	19.900	20.88	0.11	17.50	288.40	6.33	7.27	0.00	7.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.64
10	19.800	20.88	0.11	17.50	288.40	6.31	7.39	0.00	7.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
11	19.700	20.88	0.11	17.50	288.40	6.30	7.51	0.00	7.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
12	19.600	20.88	0.11	17.50	288.40	6.28	7.62	0.00	7.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
13	19.500	20.88	0.11	17.50	288.40	6.27	7.72	0.00	7.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.85
14	19.400	20.88	0.11	17.50	288.40	6.26	7.83	0.00	7.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.90
15	19.300	20.88	0.11	17.50	288.40	6.25	7.93	0.00	7.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.95
16	19.200	20.88	0.11	17.50	288.40	6.24	8.03	0.00	8.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.99
17	19.100	20.88	0.11	17.50	288.40	6.23	8.12	0.00	8.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.03
18	19.000	20.88	0.11	17.50	288.40	6.22	8.21	0.00	8.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.07
19	18.900	20.88	0.11	17.50	288.40	6.21	8.30	0.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.11
20	18.800	20.88	0.11	17.50	288.40	6.20	8.38	0.00	8.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.14
21	18.700	20.88	0.11	17.50	288.40	6.19	8.46	0.00	8.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.18
22	18.600	20.88	0.11	17.50	288.40	6.18	8.54	0.00	8.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.21
23	18.500	20.88	0.11	17.50	288.40	6.18	8.62	0.00	8.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.24
24	18.400	20.88	0.11	17.50	288.40	6.17	8.69	0.00	8.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.27
25	18.300	20.88	0.10	17.50	288.40	6.16	8.76	0.00	8.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.29
26	18.200	20.88	0.10	17.50	288.40	6.16	8.83	0.00	8.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.32
27	18.100	20.88	0.10	17.50	288.40	6.15	8.90	0.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.35
28	18.000	20.88	0.10	17.50	288.40	6.14	8.96	0.00	8.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.37
29	17.900	20.88	0.10	17.50	288.40	6.14	9.02	0.00	9.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.39
30	17.800	20.88	0.10	17.50	288.40	6.13	9.08	0.00	9.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.41
31	17.700	20.88	0.10	17.50	288.40	6.13	9.14	0.00	9.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.43
32	17.600	20.88	0.10	17.50	288.40	6.12	9.19	0.00	9.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.45
33	17.500	20.88	0.10	17.50	288.40	6.12	9.25	0.00	9.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.47
34	17.400	20.88	0.10	17.50	288.40	6.11	9.30	0.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.49
35	17.300	20.88	0.10	17.50	288.40	6.11	9.35	0.00	9.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.50
36	17.200	20.88	0.10	17.50	288.40	6.11	9.40	0.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
37	17.100	20.88	0.10	17.50	288.40	6.10	9.45	0.00	9.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.54

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 2 Theriot Canal Winter Projection Natural (no man made loads) condtions

********** 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
38	UPR RCH	0.02800	20.88	0.10	17.50	288.40	6.10	9.45	0.00	9.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.54

********** 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
38	17.10	17.00	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
39	17.00	16.90	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003

40	16.90	16.80	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
41	16.80	16.70	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
42	16.70	16.60	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
43	16.60	16.50	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
44	16.50	16.40	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
45	16.40	16.30	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
46	16.30	16.20	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
47	16.20	16.10	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
48	16.10	16.00	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
49	16.00	15.90	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
50	15.90	15.80	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
51	15.80	15.70	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
52	15.70	15.60	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
TOT						5.82			14070.00	21000.00					
AVG					0.00299		0.67	14.00			9.38				
CUM						23.72									

********** 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
38	17.000	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
39	16.900	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
40	16.800	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
41	16.700	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
42	16.600	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
43	16.500	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
44	16.400	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
45	16.300	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
46	16.200	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
47	16.100	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
48	16.000	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
49	15.900	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
50	15.800	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
51	15.700	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
52	15.600	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			1.05	0.07	0.00	0.00	0.00	0.00	0.00	0.93			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
38	17.000	20.88	0.10	17.50	288.40	6.26	9.64	0.00	9.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.59
39	16.900	20.88	0.10	17.50	288.40	6.37	9.83	0.00	9.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.65
40	16.800	20.88	0.10	17.50	288.40	6.45	10.02	0.00	10.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.70
41	16.700	20.88	0.10	17.50	288.40	6.49	10.20	0.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.76
42	16.600	20.88	0.10	17.50	288.40	6.52	10.37	0.00	10.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.81

43	16.500	20.88	0.10	17.50	288.40	6.53	10.54	0.00	10.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
44	16.400	20.88	0.10	17.50	288.40	6.54	10.71	0.00	10.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.90
45	16.300	20.88	0.10	17.50	288.40	6.54	10.87	0.00	10.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.94
46	16.200	20.88	0.10	17.50	288.40	6.53	11.03	0.00	11.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.99
47	16.100	20.88	0.10	17.50	288.40	6.53	11.18	0.00	11.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.03
48	16.000	20.88	0.10	17.50	288.40	6.52	11.33	0.00	11.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.07
49	15.900	20.88	0.10	17.50	288.40	6.51	11.47	0.00	11.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.10
50	15.800	20.88	0.10	17.50	288.40	6.49	11.61	0.00	11.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.14
51	15.700	20.88	0.10	17.50	288.40	6.48	11.75	0.00	11.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.18
52	15.600	20.88	0.10	17.50	288.40	6.47	11.88	0.00	11.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.21

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 3 Lake Boeuf Winter Projection Natural (no man made loads) condtions

********** 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
53	UPR RCH	0.02800	20.88	0.10	17.50	288.40	6.47	11.88	0.00	11.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.21

********** 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
53	15.60	15.50	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
54	15.50	15.40	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
55	15.40	15.30	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
56	15.30	15.20	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
57	15.20	15.10	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
58	15.10	15.00	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
59	15.00	14.90	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
60	14.90	14.80	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
61	14.80	14.70	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
62	14.70	14.60	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
63	14.60	14.50	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
64	14.50	14.40	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
65	14.40	14.30	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
66	14.30	14.20	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
67	14.20	14.10	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
68	14.10	14.00	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
69	14.00	13.90	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
70	13.90	13.80	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
71	13.80	13.70	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
72	13.70	13.60	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
73	13.60	13.50	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
74	13.50	13.40	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
75	13.40	13.30	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
76	13.30	13.20	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
77	13.20	13.10	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
78	13.10	13.00	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000

79	13.00	12.90	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
80	12.90	12.80	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
81	12.80	12.70	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
82	12.70	12.60	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
83	12.60	12.50	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
84	12.50	12.40	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
85	12.40	12.30	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
86	12.30	12.20	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
87	12.20	12.10	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
88	12.10	12.00	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
89	12.00	11.90	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
90	11.90	11.80	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
TOT						3349.75			8103728.00	6642400.00					
AVG					0.00001		1.22	1748.00			2132.56				
CUM						3373.47									

********** 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
53	15.500	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
54	15.400	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
55	15.300	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
56	15.200	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
57	15.100	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
58	15.000	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
59	14.900	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
60	14.800	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
61	14.700	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
62	14.600	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
63	14.500	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
64	14.400	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
65	14.300	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
66	14.200	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
67	14.100	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
68	14.000	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
69	13.900	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
70	13.800	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
71	13.700	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
72	13.600	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
73	13.500	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
74	13.400	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
75	13.300	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
76	13.200	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
77	13.100	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
78	13.000	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
79	12.900	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
80	12.800	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
81	12.700	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
82	12.600	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
83	12.500	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
84	12.400	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

85	12.300	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
86	12.200	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
87	12.100	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
88	12.000	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
89	11.900	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
90	11.800	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.54	0.07	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
53	15.500	20.88	0.10	17.50	288.40	6.02	14.55	0.00	14.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.60
54	15.400	20.88	0.10	17.50	288.40	5.96	14.91	0.00	14.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.63
55	15.300	20.88	0.10	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
56	15.200	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
57	15.100	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
58	15.000	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
59	14.900	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
60	14.800	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
61	14.700	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
62	14.600	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
63	14.500	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
64	14.400	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
65	14.300	20.88	0.10	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
66	14.200	20.88	0.10	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
67	14.100	20.88	0.10	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
68	14.000	20.88	0.10	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
69	13.900	20.88	0.10	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
70	13.800	20.88	0.10	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
71	13.700	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
72	13.600	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
73	13.500	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
74	13.400	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
75	13.300	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
76	13.200	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
77	13.100	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
78	13.000	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
79	12.900	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
80	12.800	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
81	12.700	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
82	12.600	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
83	12.500	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
84	12.400	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
85	12.300	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
86	12.200	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
87	12.100	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
88	12.000	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
89	11.900	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
90	11.800	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64

********** 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
91	UPR RCH	0.02800	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.64
104	WSTLD	0.02800	0.00	0.00	36.60	199.20	8.04	7.64	0.00	7.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36

********** 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
91	11.80	11.70	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
92	11.70	11.60	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
93	11.60	11.50	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
94	11.50	11.40	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
95	11.40	11.30	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
96	11.30	11.20	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
97	11.20	11.10	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
98	11.10	11.00	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
99	11.00	10.90	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
100	10.90	10.80	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
101	10.80	10.70	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
102	10.70	10.60	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
103	10.60	10.50	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
104	10.50	10.40	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
105	10.40	10.30	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
106	10.30	10.20	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
107	10.20	10.10	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
108	10.10	10.00	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
109	10.00	9.90	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
110	9.90	9.80	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
111	9.80	9.70	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
112	9.70	9.60	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
113	9.60	9.50	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
114	9.50	9.40	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
115	9.40	9.30	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
116	9.30	9.20	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
117	9.20	9.10	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
118	9.10	9.00	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
119	9.00	8.90	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
120	8.90	8.80	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
121	8.80	8.70	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
122	8.70	8.60	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
123	8.60	8.50	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
124	8.50	8.40	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
125	8.40	8.30	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
126	8.30	8.20	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001

127	8.20	8.10	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
128	8.10	8.00	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
129	8.00	7.90	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
130	7.90	7.80	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
131	7.80	7.70	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
132	7.70	7.60	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
133	7.60	7.50	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
TOT						73.38			272625.38	205755.00					
AVG					0.00068		1.33	47.85			63.40				
CUM						3446.85									

********** 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
91	11.700	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
92	11.600	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
93	11.500	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
94	11.400	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
95	11.300	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
96	11.200	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
97	11.100	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
98	11.000	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
99	10.900	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
100	10.800	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
101	10.700	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
102	10.600	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
103	10.500	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
104	10.400	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
105	10.300	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
106	10.200	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
107	10.100	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
108	10.000	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
109	9.900	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
110	9.800	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
111	9.700	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
112	9.600	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
113	9.500	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
114	9.400	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
115	9.300	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
116	9.200	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
117	9.100	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
118	9.000	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
119	8.900	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
120	8.800	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
121	8.700	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
122	8.600	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
123	8.500	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
124	8.400	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
125	8.300	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
126	8.200	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
127	8.100	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

128	8.000	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
129	7.900	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
130	7.800	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
131	7.700	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
132	7.600	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
133	7.500	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.95	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.90			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
91	11.700	20.88	0.09	17.50	288.40	5.35	14.04	0.00	14.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.16
92	11.600	20.88	0.09	17.50	288.40	5.19	13.27	0.00	13.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.79
93	11.500	20.88	0.09	17.50	288.40	5.22	12.61	0.00	12.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.50
94	11.400	20.88	0.09	17.50	288.40	5.30	12.07	0.00	12.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.27
95	11.300	20.88	0.09	17.50	288.40	5.39	11.61	0.00	11.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.09
96	11.200	20.88	0.09	17.50	288.40	5.48	11.23	0.00	11.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.95
97	11.100	20.88	0.09	17.50	288.40	5.56	10.90	0.00	10.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.84
98	11.000	20.88	0.09	17.50	288.40	5.62	10.63	0.00	10.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.76
99	10.900	20.88	0.09	17.50	288.40	5.67	10.40	0.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.69
100	10.800	20.88	0.09	17.50	288.40	5.72	10.21	0.00	10.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.64
101	10.700	20.88	0.10	17.50	288.40	5.76	10.05	0.00	10.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.60
102	10.600	20.88	0.10	17.50	288.40	5.79	9.92	0.00	9.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.57
103	10.500	20.88	0.10	17.50	288.40	5.81	9.80	0.00	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
104	10.400	20.88	0.10	27.05	243.80	6.56	8.76	0.00	8.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
105	10.300	20.88	0.10	27.05	243.80	6.34	8.80	0.00	8.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
106	10.200	20.88	0.10	27.05	243.80	6.21	8.84	0.00	8.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
107	10.100	20.88	0.10	27.05	243.80	6.13	8.87	0.00	8.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
108	10.000	20.88	0.10	27.05	243.80	6.08	8.90	0.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
109	9.900	20.88	0.10	27.05	243.80	6.05	8.93	0.00	8.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
110	9.800	20.88	0.10	27.05	243.80	6.03	8.95	0.00	8.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
111	9.700	20.88	0.10	27.05	243.80	6.01	8.97	0.00	8.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
112	9.600	20.88	0.10	27.05	243.80	6.00	8.99	0.00	8.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
113	9.500	20.88	0.10	27.05	243.80	6.00	9.01	0.00	9.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
114	9.400	20.88	0.10	27.05	243.80	5.99	9.03	0.00	9.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
115	9.300	20.88	0.10	27.05	243.80	5.99	9.05	0.00	9.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
116	9.200	20.88	0.10	27.05	243.80	5.99	9.06	0.00	9.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
117	9.100	20.88	0.10	27.05	243.80	5.98	9.07	0.00	9.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
118	9.000	20.88	0.10	27.05	243.80	5.98	9.09	0.00	9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
119	8.900	20.88	0.10	27.05	243.80	5.98	9.10	0.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
120	8.800	20.88	0.10	27.05	243.80	5.98	9.11	0.00	9.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
121	8.700	20.88	0.10	27.05	243.80	5.98	9.11	0.00	9.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
122	8.600	20.88	0.10	27.05	243.80	5.97	9.12	0.00	9.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
123	8.500	20.88	0.11	27.05	243.80	5.97	9.13	0.00	9.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
124	8.400	20.88	0.11	27.05	243.80	5.97	9.14	0.00	9.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
125	8.300	20.88	0.11	27.05	243.80	5.97	9.14	0.00	9.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
126	8.200	20.88	0.11	27.05	243.80	5.97	9.15	0.00	9.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
127	8.100	20.88	0.11	27.05	243.80	5.97	9.15	0.00	9.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
128	8.000	20.88	0.11	27.05	243.80	5.97	9.16	0.00	9.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
129	7.900	20.88	0.11	27.05	243.80	5.97	9.16	0.00	9.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45

130	7.800	20.88	0.11	27.05	243.80	5.97	9.17	0.00	9.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
131	7.700	20.88	0.11	27.05	243.80	5.97	9.17	0.00	9.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
132	7.600	20.88	0.11	27.05	243.80	5.97	9.17	0.00	9.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
133	7.500	20.88	0.11	27.05	243.80	5.96	9.18	0.00	9.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 8 Bayou Boeuf Winter Projection Natural (no man made loads) condtions

********** 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
289	UPR RCH	0.05600	20.88	0.11	27.05	243.80	5.96	9.18	0.00	9.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45
289	TRIB	0.08400	20.88	0.11	25.83	216.00	6.08	11.22	0.00	11.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.54

********** 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
289	7.50	7.40	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
290	7.40	7.30	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
291	7.30	7.20	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
292	7.20	7.10	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
293	7.10	7.00	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
294	7.00	6.90	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
295	6.90	6.80	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
296	6.80	6.70	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
297	6.70	6.60	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
298	6.60	6.50	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
299	6.50	6.40	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
300	6.40	6.30	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
301	6.30	6.20	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
302	6.20	6.10	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
303	6.10	6.00	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
TOT						8.80			106447.51	62250.00					
AVG					0.00197		1.71	41.50			70.97				
CUM						3455.65									

********** 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
289	7.400	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
290	7.300	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
291	7.200	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
292	7.100	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

293	7.000	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
294	6.900	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
295	6.800	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
296	6.700	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
297	6.600	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
298	6.500	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
299	6.400	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
300	6.300	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
301	6.200	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
302	6.100	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
303	6.000	8.93	0.41	0.07	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.40	0.07	0.00	0.00	0.00	0.00	0.00	0.40			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
289	7.400	20.88	0.11	26.32	227.12	6.04	10.29	0.00	10.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.62
290	7.300	20.88	0.11	26.32	227.12	6.05	10.19	0.00	10.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
291	7.200	20.88	0.11	26.32	227.12	6.06	10.09	0.00	10.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.84
292	7.100	20.88	0.11	26.32	227.12	6.06	9.99	0.00	9.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.94
293	7.000	20.88	0.11	26.32	227.12	6.06	9.90	0.00	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.03
294	6.900	20.88	0.11	26.32	227.12	6.05	9.81	0.00	9.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.12
295	6.800	20.88	0.11	26.32	227.12	6.05	9.72	0.00	9.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.21
296	6.700	20.88	0.10	26.32	227.12	6.05	9.64	0.00	9.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.28
297	6.600	20.88	0.10	26.32	227.12	6.04	9.56	0.00	9.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.36
298	6.500	20.88	0.10	26.32	227.12	6.04	9.49	0.00	9.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.43
299	6.400	20.88	0.10	26.32	227.12	6.04	9.42	0.00	9.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.49
300	6.300	20.88	0.10	26.32	227.12	6.03	9.35	0.00	9.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.55
301	6.200	20.88	0.10	26.32	227.12	6.03	9.28	0.00	9.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.61
302	6.100	20.88	0.10	26.32	227.12	6.03	9.22	0.00	9.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.67
303	6.000	20.88	0.10	26.32	227.12	6.02	9.16	0.00	9.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.72

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 18 Bayou Beouf Winter Projection Natural (no man made loads) condtions

********** 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
524	UPR RCH	0.14000	20.88	0.10	26.32	227.12	6.02	9.16	0.00	9.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72
524	TRIB	0.05600	20.88	0.10	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.74

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

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

	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
524	6.00	5.90	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
525	5.90	5.80	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
526	5.80	5.70	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
527	5.70	5.60	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
528	5.60	5.50	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
529	5.50	5.40	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
530	5.40	5.30	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
531	5.30	5.20	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
532	5.20	5.10	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
533	5.10	5.00	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
534	5.00	4.90	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
535	4.90	4.80	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
536	4.80	4.70	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
537	4.70	4.60	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
TOT						10.56			178787.67	96642.00					
AVG					0.00153		1.85	69.03			127.71				
CUM						3466.21									

********** 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
524	5.900	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
525	5.800	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
526	5.700	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
527	5.600	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
528	5.500	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
529	5.400	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
530	5.300	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
531	5.200	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
532	5.100	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
533	5.000	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
534	4.900	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
535	4.800	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
536	4.700	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
537	4.600	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.94	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.38	0.07	0.00	0.00	0.00	0.00	0.00	0.89			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
524	5.900	20.88	0.10	23.30	212.33	5.93	6.56	0.00	6.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.33
525	5.800	20.88	0.10	23.30	212.33	5.88	6.57	0.00	6.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.23
526	5.700	20.88	0.10	23.30	212.33	5.84	6.58	0.00	6.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.13

527	5.600	20.88	0.10	23.30	212.33	5.82	6.60	0.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.04
528	5.500	20.88	0.10	23.30	212.33	5.80	6.61	0.00	6.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.96
529	5.400	20.88	0.10	23.30	212.33	5.80	6.62	0.00	6.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.89
530	5.300	20.88	0.10	23.30	212.33	5.79	6.63	0.00	6.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.82
531	5.200	20.88	0.10	23.30	212.33	5.80	6.64	0.00	6.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
532	5.100	20.88	0.10	23.30	212.33	5.80	6.65	0.00	6.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.69
533	5.000	20.88	0.10	23.30	212.33	5.81	6.66	0.00	6.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.64
534	4.900	20.88	0.10	23.30	212.33	5.82	6.67	0.00	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.59
535	4.800	20.88	0.10	23.30	212.33	5.83	6.68	0.00	6.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
536	4.700	20.88	0.10	23.30	212.33	5.84	6.69	0.00	6.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.50
537	4.600	20.88	0.10	23.30	212.33	5.85	6.69	0.00	6.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.46

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 19 Bayou Beouf Winter Projection Natural (no man made loads) condtions

********** 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
538	UPR RCH	0.19600	20.88	0.10	23.30	212.33	5.85	6.69	0.00	6.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.46

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW 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
538	4.60	4.50	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
539	4.50	4.40	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
540	4.40	4.30	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
541	4.30	4.20	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
542	4.20	4.10	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
543	4.10	4.00	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
544	4.00	3.90	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
545	3.90	3.80	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
546	3.80	3.70	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
547	3.70	3.60	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
548	3.60	3.50	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
549	3.50	3.40	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
550	3.40	3.30	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
551	3.30	3.20	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
552	3.20	3.10	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
553	3.10	3.00	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
554	3.00	2.90	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
555	2.90	2.80	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
556	2.80	2.70	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
557	2.70	2.60	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
558	2.60	2.50	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
559	2.50	2.40	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
560	2.40	2.30	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
561	2.30	2.20	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
562	2.20	2.10	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002

563	2.10	2.00	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
564	2.00	1.90	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
565	1.90	1.80	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
566	1.80	1.70	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
567	1.70	1.60	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
568	1.60	1.50	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
569	1.50	1.40	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
570	1.40	1.30	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
571	1.30	1.20	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
572	1.20	1.10	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
573	1.10	1.00	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
574	1.00	0.90	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
575	0.90	0.80	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
576	0.80	0.70	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
577	0.70	0.60	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
578	0.60	0.50	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
579	0.50	0.40	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
580	0.40	0.30	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
581	0.30	0.20	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
582	0.20	0.10	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
583	0.10	0.00	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
TOT						34.29			580649.06	288880.00					
AVG					0.00155		2.01	62.80			126.23				
CUM						3500.50									

********** 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
538	4.500	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
539	4.400	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
540	4.300	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
541	4.200	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
542	4.100	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
543	4.000	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
544	3.900	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
545	3.800	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
546	3.700	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
547	3.600	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
548	3.500	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
549	3.400	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
550	3.300	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
551	3.200	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
552	3.100	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
553	3.000	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
554	2.900	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
555	2.800	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
556	2.700	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
557	2.600	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
558	2.500	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
559	2.400	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
560	2.300	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
561	2.200	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
562	2.100	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
563	2.000	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
564	1.900	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
565	1.800	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
566	1.700	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
567	1.600	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
568	1.500	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
569	1.400	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
570	1.300	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
571	1.200	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
572	1.100	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
573	1.000	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
574	0.900	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
575	0.800	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
576	0.700	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
577	0.600	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
578	0.500	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
579	0.400	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
580	0.300	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
581	0.200	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
582	0.100	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
583	0.000	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.09	1.09	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.34	0.07	0.00	0.00	0.00	0.00	0.00	1.03			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
538	4.500	20.88	0.10	23.30	212.33	5.78	6.60	0.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
539	4.400	20.88	0.10	23.30	212.33	5.74	6.51	0.00	6.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.42
540	4.300	20.88	0.10	23.30	212.33	5.71	6.42	0.00	6.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.41
541	4.200	20.88	0.10	23.30	212.33	5.69	6.34	0.00	6.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.40
542	4.100	20.88	0.10	23.30	212.33	5.68	6.26	0.00	6.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.39
543	4.000	20.88	0.10	23.30	212.33	5.67	6.19	0.00	6.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
544	3.900	20.88	0.10	23.30	212.33	5.67	6.12	0.00	6.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.36
545	3.800	20.88	0.10	23.30	212.33	5.68	6.05	0.00	6.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35
546	3.700	20.88	0.10	23.30	212.33	5.68	5.99	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35
547	3.600	20.88	0.10	23.30	212.33	5.69	5.93	0.00	5.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.34
548	3.500	20.88	0.10	23.30	212.33	5.70	5.88	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.33
549	3.400	20.88	0.10	23.30	212.33	5.71	5.82	0.00	5.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
550	3.300	20.88	0.10	23.30	212.33	5.72	5.77	0.00	5.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
551	3.200	20.88	0.10	23.30	212.33	5.73	5.73	0.00	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.31
552	3.100	20.88	0.10	23.30	212.33	5.74	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
553	3.000	20.88	0.10	23.30	212.33	5.75	5.64	0.00	5.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
554	2.900	20.88	0.10	23.30	212.33	5.76	5.60	0.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.29
555	2.800	20.88	0.10	23.30	212.33	5.77	5.56	0.00	5.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.29
556	2.700	20.88	0.10	23.30	212.33	5.78	5.52	0.00	5.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.29
557	2.600	20.88	0.10	23.30	212.33	5.79	5.49	0.00	5.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
558	2.500	20.88	0.10	23.30	212.33	5.80	5.45	0.00	5.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
559	2.400	20.88	0.10	23.30	212.33	5.81	5.42	0.00	5.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27
560	2.300	20.88	0.10	23.30	212.33	5.82	5.39	0.00	5.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27
561	2.200	20.88	0.10	23.30	212.33	5.83	5.36	0.00	5.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27
562	2.100	20.88	0.10	23.30	212.33	5.83	5.34	0.00	5.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27
563	2.000	20.88	0.10	23.30	212.33	5.84	5.31	0.00	5.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.26
564	1.900	20.88	0.10	23.30	212.33	5.85	5.29	0.00	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.26
565	1.800	20.88	0.10	23.30	212.33	5.86	5.26	0.00	5.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.26
566	1.700	20.88	0.10	23.30	212.33	5.86	5.24	0.00	5.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.26
567	1.600	20.88	0.10	23.30	212.33	5.87	5.22	0.00	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.26
568	1.500	20.88	0.10	23.30	212.33	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.	1.25
569	1.400	20.88	0.10	23.30	212.33	5.88	5.18	0.00	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.25
570	1.300	20.88	0.10	23.30	212.33	5.88	5.17	0.00	5.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.25
571	1.200	20.88	0.10	23.30	212.33	5.89	5.15	0.00	5.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.25
572	1.100	20.88	0.10	23.30	212.33	5.89	5.13	0.00	5.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.25
573	1.000	20.88	0.10	23.30	212.33	5.90	5.12	0.00	5.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.25
574	0.900	20.88	0.10	23.30	212.33	5.90	5.10	0.00	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.25
575	0.800	20.88	0.10	23.30	212.33	5.91	5.09	0.00	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.25
576	0.700	20.88	0.10	23.30	212.33	5.91	5.08	0.00	5.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
577	0.600	20.88	0.10	23.30	212.33	5.91	5.07	0.00	5.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
578	0.500	20.88	0.10	23.30	212.33	5.92	5.06	0.00	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
579	0.400	20.88	0.10	23.30	212.33	5.92	5.04	0.00	5.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
580	0.300	20.88	0.10	23.30	212.33	5.92	5.03	0.00	5.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
581	0.200	20.88	0.10	23.30	212.33	5.93	5.02	0.00	5.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
582	0.100	20.88	0.10	23.30	212.33	5.93	5.01	0.00	5.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
583	0.000	20.88	0.10	23.30	212.33	5.93	5.01	0.00	5.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24

Theriot Canal Winter Projection Natural (no man made loads) condtions

TRAVEL TIME	=	3500.50 DAYS			
MAXIMUM EFFLUENT	=	60.00 PERCENT			
FLOW	=	0.02800	TO	0.19600	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00001	TO	0.00299	m/s
DEPTH	=	0.56	TO	2.01	m
WIDTH	=	14.00	TO	******	m
BOD DECAY	=	0.07	TO	0.07	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.21	TO	1.48	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.35	TO	1.27	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	=	20.88	TO	20.88	deg C
DISSOLVED OXYGEN	=	5.19	TO	7.42	mg/L

FINAL REPORT Halpin Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 5 Halpin Canal Winter Projection Natural (no man made loads) condtions

********** 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
134	HDWTR	0.02800	0.00	0.00	29.10	245.20	8.04	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17
204	WSTLD	0.02800	0.00	0.00	24.20	201.40	8.04	6.53	0.00	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
134	15.50	15.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
135	15.40	15.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
136	15.30	15.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
137	15.20	15.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
138	15.10	15.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
139	15.00	14.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
140	14.90	14.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
141	14.80	14.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
142	14.70	14.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
143	14.60	14.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
144	14.50	14.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
145	14.40	14.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002

146	14.30	14.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
147	14.20	14.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
148	14.10	14.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
149	14.00	13.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
150	13.90	13.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
151	13.80	13.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
152	13.70	13.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
153	13.60	13.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
154	13.50	13.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
155	13.40	13.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
156	13.30	13.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
157	13.20	13.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
158	13.10	13.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
159	13.00	12.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
160	12.90	12.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
161	12.80	12.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
162	12.70	12.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
163	12.60	12.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
164	12.50	12.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
165	12.40	12.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
166	12.30	12.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
167	12.20	12.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
168	12.10	12.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
169	12.00	11.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
170	11.90	11.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
171	11.80	11.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
172	11.70	11.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
173	11.60	11.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
174	11.50	11.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
175	11.40	11.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
176	11.30	11.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
177	11.20	11.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
178	11.10	11.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
179	11.00	10.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
180	10.90	10.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
181	10.80	10.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
182	10.70	10.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
183	10.60	10.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
184	10.50	10.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
185	10.40	10.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
186	10.30	10.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
187	10.20	10.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
188	10.10	10.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
189	10.00	9.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
190	9.90	9.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
191	9.80	9.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
192	9.70	9.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
193	9.60	9.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
194	9.50	9.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
195	9.40	9.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
196	9.30	9.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
197	9.20	9.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
198	9.10	9.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
199	9.00	8.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
200	8.90	8.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
201	8.80	8.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002

202	8.70	8.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
203	8.60	8.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
204	8.50	8.40	0.05600	50.0	0.00318	0.36	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
205	8.40	8.30	0.05600	50.0	0.00318	0.36	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
206	8.30	8.20	0.05600	50.0	0.00318	0.36	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
207	8.20	8.10	0.05600	50.0	0.00318	0.36	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
208	8.10	8.00	0.05600	50.0	0.00318	0.36	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
TOT						52.84			132240.09	174000.00					
AVG					0.00164		0.76	23.20			17.63				
CUM						52.84									

********** 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
134	15.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
135	15.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
136	15.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
137	15.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
138	15.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
139	14.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
140	14.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
141	14.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
142	14.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
143	14.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
144	14.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
145	14.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
146	14.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
147	14.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
148	14.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
149	13.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
150	13.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
151	13.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
152	13.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
153	13.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
154	13.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
155	13.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
156	13.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
157	13.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
158	13.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
159	12.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
160	12.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
161	12.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
162	12.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
163	12.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
164	12.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
165	12.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
166	12.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
167	12.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
168	12.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
169	11.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
170	11.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

171	11.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
172	11.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
173	11.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
174	11.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
175	11.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
176	11.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
177	11.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
178	11.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
179	10.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
180	10.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
181	10.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
182	10.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
183	10.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
184	10.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
185	10.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
186	10.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
187	10.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
188	10.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
189	9.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
190	9.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
191	9.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
192	9.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
193	9.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
194	9.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
195	9.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
196	9.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
197	9.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
198	9.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
199	8.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
200	8.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
201	8.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
202	8.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
203	8.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
204	8.400	8.93	0.95	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
205	8.300	8.93	0.95	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
206	8.200	8.93	0.95	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
207	8.100	8.93	0.95	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
208	8.000	8.93	0.95	0.07	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.91	0.07	0.00	0.00	0.00	0.00	0.00	1.58			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
134	15.400	20.88	0.12	29.10	245.20	7.18	6.55	0.00	6.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
135	15.300	20.88	0.12	29.10	245.20	6.66	6.50	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.18
136	15.200	20.88	0.12	29.10	245.20	6.35	6.46	0.00	6.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.18
137	15.100	20.88	0.12	29.10	245.20	6.17	6.42	0.00	6.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.18
138	15.000	20.88	0.12	29.10	245.20	6.06	6.39	0.00	6.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.18
139	14.900	20.88	0.12	29.10	245.20	5.99	6.35	0.00	6.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.18
140	14.800	20.88	0.12	29.10	245.20	5.96	6.32	0.00	6.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19

141	14.700	20.88	0.12	29.10	245.20	5.94	6.29	0.00	6.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19
142	14.600	20.88	0.12	29.10	245.20	5.92	6.26	0.00	6.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19
143	14.500	20.88	0.12	29.10	245.20	5.92	6.23	0.00	6.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19
144	14.400	20.88	0.12	29.10	245.20	5.91	6.21	0.00	6.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19
145	14.300	20.88	0.12	29.10	245.20	5.91	6.18	0.00	6.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19
146	14.200	20.88	0.12	29.10	245.20	5.91	6.16	0.00	6.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
147	14.100	20.88	0.12	29.10	245.20	5.91	6.13	0.00	6.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
148	14.000	20.88	0.12	29.10	245.20	5.91	6.11	0.00	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
149	13.900	20.88	0.12	29.10	245.20	5.92	6.09	0.00	6.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
150	13.800	20.88	0.12	29.10	245.20	5.92	6.07	0.00	6.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
151	13.700	20.88	0.12	29.10	245.20	5.92	6.05	0.00	6.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
152	13.600	20.88	0.12	29.10	245.20	5.92	6.04	0.00	6.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
153	13.500	20.88	0.12	29.10	245.20	5.92	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
154	13.400	20.88	0.12	29.10	245.20	5.92	6.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
155	13.300	20.88	0.12	29.10	245.20	5.92	5.99	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
156	13.200	20.88	0.12	29.10	245.20	5.92	5.98	0.00	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
157	13.100	20.88	0.12	29.10	245.20	5.93	5.96	0.00	5.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
158	13.000	20.88	0.12	29.10	245.20	5.93	5.95	0.00	5.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
159	12.900	20.88	0.12	29.10	245.20	5.93	5.94	0.00	5.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
160	12.800	20.88	0.12	29.10	245.20	5.93	5.92	0.00	5.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
161	12.700	20.88	0.12	29.10	245.20	5.93	5.91	0.00	5.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
162	12.600	20.88	0.12	29.10	245.20	5.93	5.90	0.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
163	12.500	20.88	0.12	29.10	245.20	5.93	5.89	0.00	5.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
164	12.400	20.88	0.12	29.10	245.20	5.93	5.88	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
165	12.300	20.88	0.12	29.10	245.20	5.93	5.88	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
166	12.200	20.88	0.12	29.10	245.20	5.93	5.87	0.00	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
167	12.100	20.88	0.12	29.10	245.20	5.93	5.86	0.00	5.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
168	12.000	20.88	0.12	29.10	245.20	5.93	5.85	0.00	5.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
169	11.900	20.88	0.12	29.10	245.20	5.94	5.84	0.00	5.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
170	11.800	20.88	0.12	29.10	245.20	5.94	5.84	0.00	5.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
171	11.700	20.88	0.12	29.10	245.20	5.94	5.83	0.00	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
172	11.600	20.88	0.12	29.10	245.20	5.94	5.82	0.00	5.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
173	11.500	20.88	0.12	29.10	245.20	5.94	5.82	0.00	5.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
174	11.400	20.88	0.12	29.10	245.20	5.94	5.81	0.00	5.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
175	11.300	20.88	0.12	29.10	245.20	5.94	5.81	0.00	5.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
176	11.200	20.88	0.12	29.10	245.20	5.94	5.80	0.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
177	11.100	20.88	0.12	29.10	245.20	5.94	5.80	0.00	5.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
178	11.000	20.88	0.12	29.10	245.20	5.94	5.79	0.00	5.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
179	10.900	20.88	0.12	29.10	245.20	5.94	5.79	0.00	5.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
180	10.800	20.88	0.12	29.10	245.20	5.94	5.78	0.00	5.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
181	10.700	20.88	0.12	29.10	245.20	5.94	5.78	0.00	5.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
182	10.600	20.88	0.12	29.10	245.20	5.94	5.78	0.00	5.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
183	10.500	20.88	0.12	29.10	245.20	5.94	5.77	0.00	5.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
184	10.400	20.88	0.12	29.10	245.20	5.94	5.77	0.00	5.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
185	10.300	20.88	0.12	29.10	245.20	5.94	5.77	0.00	5.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
186	10.200	20.88	0.12	29.10	245.20	5.94	5.76	0.00	5.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
187	10.100	20.88	0.12	29.10	245.20	5.94	5.76	0.00	5.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
188	10.000	20.88	0.12	29.10	245.20	5.94	5.76	0.00	5.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
189	9.900	20.88	0.12	29.10	245.20	5.94	5.76	0.00	5.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
190	9.800	20.88	0.12	29.10	245.20	5.94	5.75	0.00	5.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
191	9.700	20.88	0.12	29.10	245.20	5.94	5.75	0.00	5.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
192	9.600	20.88	0.12	29.10	245.20	5.94	5.75	0.00	5.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
193	9.500	20.88	0.12	29.10	245.20	5.94	5.75	0.00	5.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
194	9.400	20.88	0.12	29.10	245.20	5.94	5.74	0.00	5.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
195	9.300	20.88	0.12	29.10	245.20	5.94	5.74	0.00	5.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
196	9.200	20.88	0.12	29.10	245.20	5.94	5.74	0.00	5.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21

197	9.100	20.88	0.12	29.10	245.20	5.94	5.74	0.00	5.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
198	9.000	20.88	0.12	29.10	245.20	5.94	5.74	0.00	5.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
199	8.900	20.88	0.12	29.10	245.20	5.94	5.74	0.00	5.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
200	8.800	20.88	0.12	29.10	245.20	5.94	5.73	0.00	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
201	8.700	20.88	0.12	29.10	245.20	5.94	5.73	0.00	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
202	8.600	20.88	0.12	29.10	245.20	5.94	5.73	0.00	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
203	8.500	20.88	0.12	29.10	245.20	5.95	5.73	0.00	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
204	8.400	20.88	0.12	26.65	223.30	6.74	6.12	0.00	6.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
205	8.300	20.88	0.12	26.65	223.30	6.55	6.11	0.00	6.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
206	8.200	20.88	0.12	26.65	223.30	6.41	6.10	0.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27
207	8.100	20.88	0.12	26.65	223.30	6.31	6.09	0.00	6.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27
208	8.000	20.88	0.12	26.65	223.30	6.23	6.08	0.00	6.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27

FINAL REPORT Halpin Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 6 Halpin Canal Winter Projection Natural (no man made loads) condtions

********** 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
209	UPR RCH	0.05600	20.88	0.12	26.65	223.30	6.23	6.08	0.00	6.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27
227	WSTLD	0.02800	0.00	0.00	24.20	201.40	8.04	6.53	0.00	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35

********** 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
209	8.00	7.90	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
210	7.90	7.80	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
211	7.80	7.70	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
212	7.70	7.60	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
213	7.60	7.50	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
214	7.50	7.40	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
215	7.40	7.30	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
216	7.30	7.20	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
217	7.20	7.10	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
218	7.10	7.00	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
219	7.00	6.90	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
220	6.90	6.80	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
221	6.80	6.70	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
222	6.70	6.60	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
223	6.60	6.50	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
224	6.50	6.40	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
225	6.40	6.30	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
226	6.30	6.20	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
227	6.20	6.10	0.08400	66.7	0.00336	0.34	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.003
228	6.10	6.00	0.08400	66.7	0.00336	0.34	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.003
229	6.00	5.90	0.08400	66.7	0.00336	0.34	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.003
230	5.90	5.80	0.08400	66.7	0.00336	0.34	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.003
TOT						10.67			54978.00	52360.00					
AVG					0.00239		1.05	23.80			24.99				
CUM						63.51									

********** 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
209	7.900	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
210	7.800	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
211	7.700	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
212	7.600	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
213	7.500	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
214	7.400	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
215	7.300	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
216	7.200	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
217	7.100	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
218	7.000	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
219	6.900	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
220	6.800	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
221	6.700	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
222	6.600	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
223	6.500	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
224	6.400	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

225	6.300	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
226	6.200	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
227	6.100	8.93	0.69	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
228	6.000	8.93	0.69	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
229	5.900	8.93	0.69	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
230	5.800	8.93	0.69	0.07	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.67	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	0.10	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
209	7.900	20.88	0.12	26.65	223.30	6.53	6.51	0.00	6.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.29
210	7.800	20.88	0.12	26.65	223.30	6.73	6.93	0.00	6.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.31
211	7.700	20.88	0.12	26.65	223.30	6.88	7.33	0.00	7.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.33
212	7.600	20.88	0.12	26.65	223.30	6.97	7.71	0.00	7.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35
213	7.500	20.88	0.12	26.65	223.30	7.03	8.08	0.00	8.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
214	7.400	20.88	0.12	26.65	223.30	7.06	8.44	0.00	8.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.39
215	7.300	20.88	0.12	26.65	223.30	7.08	8.79	0.00	8.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.41
216	7.200	20.88	0.12	26.65	223.30	7.08	9.12	0.00	9.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.42
217	7.100	20.88	0.12	26.65	223.30	7.07	9.44	0.00	9.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
218	7.000	20.88	0.12	26.65	223.30	7.05	9.75	0.00	9.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
219	6.900	20.88	0.12	26.65	223.30	7.03	10.05	0.00	10.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.47
220	6.800	20.88	0.12	26.65	223.30	7.01	10.34	0.00	10.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
221	6.700	20.88	0.12	26.65	223.30	6.98	10.61	0.00	10.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
222	6.600	20.88	0.12	26.65	223.30	6.95	10.88	0.00	10.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.50
223	6.500	20.88	0.12	26.65	223.30	6.93	11.14	0.00	11.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.51
224	6.400	20.88	0.12	26.65	223.30	6.90	11.39	0.00	11.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
225	6.300	20.88	0.12	26.65	223.30	6.87	11.62	0.00	11.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
226	6.200	20.88	0.12	26.65	223.30	6.84	11.85	0.00	11.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
227	6.100	20.88	0.12	25.83	216.00	7.19	10.27	0.00	10.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
228	6.000	20.88	0.12	25.83	216.00	7.15	10.46	0.00	10.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.50
229	5.900	20.88	0.12	25.83	216.00	7.11	10.64	0.00	10.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.50
230	5.800	20.88	0.12	25.83	216.00	7.08	10.82	0.00	10.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.51

********** 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
231	UPR RCH	0.08400	20.88	0.12	25.83	216.00	7.08	10.82	0.00	10.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51

********** 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
231	5.80	5.70	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
232	5.70	5.60	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
233	5.60	5.50	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
234	5.50	5.40	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
235	5.40	5.30	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
236	5.30	5.20	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
237	5.20	5.10	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
238	5.10	5.00	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
239	5.00	4.90	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
240	4.90	4.80	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
241	4.80	4.70	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
242	4.70	4.60	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
243	4.60	4.50	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
244	4.50	4.40	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
245	4.40	4.30	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
246	4.30	4.20	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
247	4.20	4.10	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
248	4.10	4.00	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
249	4.00	3.90	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
250	3.90	3.80	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
251	3.80	3.70	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
252	3.70	3.60	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
253	3.60	3.50	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
254	3.50	3.40	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
255	3.40	3.30	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
256	3.30	3.20	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
257	3.20	3.10	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
258	3.10	3.00	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
259	3.00	2.90	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
260	2.90	2.80	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
261	2.80	2.70	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
262	2.70	2.60	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
263	2.60	2.50	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
264	2.50	2.40	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
265	2.40	2.30	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
266	2.30	2.20	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
267	2.20	2.10	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
268	2.10	2.00	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003

269	2.00	1.90	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
270	1.90	1.80	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
271	1.80	1.70	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
272	1.70	1.60	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
273	1.60	1.50	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
274	1.50	1.40	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
275	1.40	1.30	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
276	1.30	1.20	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
277	1.20	1.10	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
278	1.10	1.00	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
279	1.00	0.90	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
280	0.90	0.80	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
281	0.80	0.70	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
282	0.70	0.60	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
283	0.60	0.50	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
284	0.50	0.40	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
285	0.40	0.30	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
286	0.30	0.20	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
287	0.20	0.10	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
288	0.10	0.00	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
TOT						26.13			189636.73	141520.00					
AVG					0.00257		1.34	24.40			32.70				
CUM						89.64									

********** 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
231	5.700	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
232	5.600	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
233	5.500	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
234	5.400	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
235	5.300	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
236	5.200	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
237	5.100	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
238	5.000	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
239	4.900	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
240	4.800	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
241	4.700	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
242	4.600	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
243	4.500	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
244	4.400	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
245	4.300	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
246	4.200	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
247	4.100	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
248	4.000	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
249	3.900	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
250	3.800	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
251	3.700	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
252	3.600	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
253	3.500	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
254	3.400	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

255	3.300	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
256	3.200	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
257	3.100	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
258	3.000	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
259	2.900	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
260	2.800	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
261	2.700	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
262	2.600	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
263	2.500	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
264	2.400	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
265	2.300	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
266	2.200	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
267	2.100	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
268	2.000	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
269	1.900	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
270	1.800	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
271	1.700	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
272	1.600	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
273	1.500	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
274	1.400	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
275	1.300	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
276	1.200	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
277	1.100	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
278	1.000	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
279	0.900	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
280	0.800	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
281	0.700	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
282	0.600	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
283	0.500	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
284	0.400	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
285	0.300	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
286	0.200	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
287	0.100	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
288	0.000	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.68			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
231	5.700	20.88	0.12	25.83	216.00	6.89	10.84	0.00	10.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.51
232	5.600	20.88	0.12	25.83	216.00	6.75	10.85	0.00	10.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.51
233	5.500	20.88	0.12	25.83	216.00	6.63	10.87	0.00	10.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.51
234	5.400	20.88	0.12	25.83	216.00	6.53	10.88	0.00	10.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
235	5.300	20.88	0.12	25.83	216.00	6.45	10.89	0.00	10.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
236	5.200	20.88	0.12	25.83	216.00	6.39	10.91	0.00	10.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
237	5.100	20.88	0.12	25.83	216.00	6.34	10.92	0.00	10.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
238	5.000	20.88	0.12	25.83	216.00	6.30	10.93	0.00	10.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
239	4.900	20.88	0.12	25.83	216.00	6.26	10.94	0.00	10.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
240	4.800	20.88	0.12	25.83	216.00	6.23	10.95	0.00	10.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
241	4.700	20.88	0.12	25.83	216.00	6.21	10.96	0.00	10.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
242	4.600	20.88	0.12	25.83	216.00	6.19	10.97	0.00	10.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
243	4.500	20.88	0.12	25.83	216.00	6.18	10.98	0.00	10.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
244	4.400	20.88	0.12	25.83	216.00	6.16	10.99	0.00	10.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
245	4.300	20.88	0.12	25.83	216.00	6.15	11.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
246	4.200	20.88	0.12	25.83	216.00	6.14	11.01	0.00	11.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
247	4.100	20.88	0.12	25.83	216.00	6.14	11.02	0.00	11.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
248	4.000	20.88	0.12	25.83	216.00	6.13	11.03	0.00	11.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
249	3.900	20.88	0.12	25.83	216.00	6.13	11.04	0.00	11.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
250	3.800	20.88	0.12	25.83	216.00	6.12	11.04	0.00	11.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
251	3.700	20.88	0.12	25.83	216.00	6.12	11.05	0.00	11.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
252	3.600	20.88	0.12	25.83	216.00	6.11	11.06	0.00	11.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
253	3.500	20.88	0.12	25.83	216.00	6.11	11.07	0.00	11.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
254	3.400	20.88	0.12	25.83	216.00	6.11	11.07	0.00	11.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
255	3.300	20.88	0.12	25.83	216.00	6.11	11.08	0.00	11.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
256	3.200	20.88	0.12	25.83	216.00	6.11	11.09	0.00	11.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
257	3.100	20.88	0.12	25.83	216.00	6.10	11.09	0.00	11.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
258	3.000	20.88	0.12	25.83	216.00	6.10	11.10	0.00	11.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
259	2.900	20.88	0.12	25.83	216.00	6.10	11.11	0.00	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
260	2.800	20.88	0.12	25.83	216.00	6.10	11.11	0.00	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
261	2.700	20.88	0.12	25.83	216.00	6.10	11.12	0.00	11.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
262	2.600	20.88	0.12	25.83	216.00	6.10	11.12	0.00	11.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
263	2.500	20.88	0.12	25.83	216.00	6.10	11.13	0.00	11.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
264	2.400	20.88	0.12	25.83	216.00	6.09	11.13	0.00	11.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
265	2.300	20.88	0.12	25.83	216.00	6.09	11.14	0.00	11.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
266	2.200	20.88	0.12	25.83	216.00	6.09	11.14	0.00	11.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
267	2.100	20.88	0.12	25.83	216.00	6.09	11.15	0.00	11.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
268	2.000	20.88	0.12	25.83	216.00	6.09	11.15	0.00	11.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
269	1.900	20.88	0.11	25.83	216.00	6.09	11.16	0.00	11.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
270	1.800	20.88	0.11	25.83	216.00	6.09	11.16	0.00	11.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
271	1.700	20.88	0.11	25.83	216.00	6.09	11.16	0.00	11.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
272	1.600	20.88	0.11	25.83	216.00	6.09	11.17	0.00	11.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
273	1.500	20.88	0.11	25.83	216.00	6.09	11.17	0.00	11.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
274	1.400	20.88	0.11	25.83	216.00	6.09	11.17	0.00	11.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
275	1.300	20.88	0.11	25.83	216.00	6.09	11.18	0.00	11.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
276	1.200	20.88	0.11	25.83	216.00	6.09	11.18	0.00	11.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
277	1.100	20.88	0.11	25.83	216.00	6.09	11.19	0.00	11.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
278	1.000	20.88	0.11	25.83	216.00	6.08	11.19	0.00	11.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
279	0.900	20.88	0.11	25.83	216.00	6.08	11.19	0.00	11.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
280	0.800	20.88	0.11	25.83	216.00	6.08	11.19	0.00	11.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
281	0.700	20.88	0.11	25.83	216.00	6.08	11.20	0.00	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54

282	0.600	20.88	0.11	25.83	216.00	6.08	11.20	0.00	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
283	0.500	20.88	0.11	25.83	216.00	6.08	11.20	0.00	11.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
284	0.400	20.88	0.11	25.83	216.00	6.08	11.21	0.00	11.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
285	0.300	20.88	0.11	25.83	216.00	6.08	11.21	0.00	11.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
286	0.200	20.88	0.11	25.83	216.00	6.08	11.21	0.00	11.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
287	0.100	20.88	0.11	25.83	216.00	6.08	11.21	0.00	11.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
288	0.000	20.88	0.11	25.83	216.00	6.08	11.22	0.00	11.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54

STREAM SUMMARY
Halpin Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Winter Projection Natural (no man made loads) condtions

TRAVEL TIME	=	89.64	DAYS		
MAXIMUM EFFLUENT	=	66.67	PERCENT		
FLOW	=	0.02800	TO	0.08400	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00159	TO	0.00336	m/s
DEPTH	=	0.76	TO	1.34	m
WIDTH	=	23.20	TO	24.40	m
BOD DECAY	=	0.07	TO	0.07	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.45	TO	1.67	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.53	TO	0.95	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	=	20.88	TO	20.88	deg C
DISSOLVED OXYGEN	=	5.91	TO	7.19	mg/L

FINAL REPORT Grand Bayou
REACH NO. 9 Grand Bayou

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Winter Projection Natural (no man made loads) condtions

********** 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
304	HDWTR	0.02800	0.00	0.00	12.10	143.00	8.04	6.94	0.00	6.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.06

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
304	22.00	21.90	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
305	21.90	21.80	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
306	21.80	21.70	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
307	21.70	21.60	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
308	21.60	21.50	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
309	21.50	21.40	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
310	21.40	21.30	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
311	21.30	21.20	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
312	21.20	21.10	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
313	21.10	21.00	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
314	21.00	20.90	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
315	20.90	20.80	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
316	20.80	20.70	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
317	20.70	20.60	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
318	20.60	20.50	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
319	20.50	20.40	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
320	20.40	20.30	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
321	20.30	20.20	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
322	20.20	20.10	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
323	20.10	20.00	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
324	20.00	19.90	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
325	19.90	19.80	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
TOT						17.66			42728.39	42900.00					
AVG					0.00144		1.00	19.50			19.42				
CUM						17.66									

********** 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
304	21.900	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
305	21.800	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
306	21.700	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
307	21.600	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
308	21.500	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
309	21.400	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
310	21.300	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
311	21.200	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
312	21.100	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
313	21.000	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
314	20.900	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
315	20.800	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
316	20.700	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
317	20.600	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
318	20.500	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
319	20.400	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00

320	20.300	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
321	20.200	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
322	20.100	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
323	20.000	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
324	19.900	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
325	19.800	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.18	1.18	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
AVG 20 DEG C RATE			0.69	0.05	0.00	0.00	0.00	0.00	0.00	1.12			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
304	21.900	20.88	0.08	12.10	143.00	7.19	6.91	0.00	6.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.92
305	21.800	20.88	0.08	12.10	143.00	6.66	6.89	0.00	6.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.82
306	21.700	20.88	0.08	12.10	143.00	6.34	6.87	0.00	6.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
307	21.600	20.88	0.08	12.10	143.00	6.15	6.84	0.00	6.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.67
308	21.500	20.88	0.08	12.10	143.00	6.04	6.82	0.00	6.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.62
309	21.400	20.88	0.08	12.10	143.00	5.97	6.80	0.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.59
310	21.300	20.88	0.08	12.10	143.00	5.94	6.78	0.00	6.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.56
311	21.200	20.88	0.08	12.10	143.00	5.92	6.76	0.00	6.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
312	21.100	20.88	0.08	12.10	143.00	5.91	6.74	0.00	6.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
313	21.000	20.88	0.08	12.10	143.00	5.91	6.72	0.00	6.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.51
314	20.900	20.88	0.08	12.10	143.00	5.91	6.71	0.00	6.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.50
315	20.800	20.88	0.08	12.10	143.00	5.91	6.69	0.00	6.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
316	20.700	20.88	0.08	12.10	143.00	5.92	6.67	0.00	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
317	20.600	20.88	0.08	12.10	143.00	5.92	6.66	0.00	6.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
318	20.500	20.88	0.08	12.10	143.00	5.92	6.64	0.00	6.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
319	20.400	20.88	0.08	12.10	143.00	5.93	6.63	0.00	6.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
320	20.300	20.88	0.08	12.10	143.00	5.93	6.62	0.00	6.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
321	20.200	20.88	0.08	12.10	143.00	5.93	6.60	0.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.47
322	20.100	20.88	0.08	12.10	143.00	5.93	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.47
323	20.000	20.88	0.08	12.10	143.00	5.93	6.58	0.00	6.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.47
324	19.900	20.88	0.08	12.10	143.00	5.94	6.57	0.00	6.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.47
325	19.800	20.88	0.08	12.10	143.00	5.94	6.56	0.00	6.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.47

********** 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
326	UPR RCH	0.02800	20.88	0.08	12.10	143.00	5.94	6.56	0.00	6.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47
327	WSTLD	0.02800	0.00	0.00	19.40	207.70	8.04	6.93	0.00	6.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07

********** 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
326	19.80	19.70	0.02800	0.0	0.00057	2.04	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
327	19.70	19.60	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
328	19.60	19.50	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
329	19.50	19.40	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
330	19.40	19.30	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
331	19.30	19.20	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
332	19.20	19.10	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
333	19.10	19.00	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
334	19.00	18.90	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
335	18.90	18.80	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
336	18.80	18.70	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
337	18.70	18.60	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
338	18.60	18.50	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
339	18.50	18.40	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
340	18.40	18.30	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
341	18.30	18.20	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
342	18.20	18.10	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
343	18.10	18.00	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
344	18.00	17.90	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
345	17.90	17.80	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
346	17.80	17.70	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
347	17.70	17.60	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
348	17.60	17.50	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
349	17.50	17.40	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
350	17.40	17.30	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
TOT						26.46			123093.75	81250.00					
AVG					0.00109		1.51	32.50			49.24				
CUM						44.12									

********** 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
326	19.700	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
327	19.600	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
328	19.500	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
329	19.400	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
330	19.300	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
331	19.200	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
332	19.100	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
333	19.000	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
334	18.900	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
335	18.800	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
336	18.700	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
337	18.600	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
338	18.500	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
339	18.400	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
340	18.300	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
341	18.200	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
342	18.100	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
343	18.000	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
344	17.900	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
345	17.800	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
346	17.700	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
347	17.600	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
348	17.500	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
349	17.400	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
350	17.300	8.93	0.46	0.05	0.00	0.00	0.00	0.00	0.00	1.45	1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
AVG 20 DEG C RATE			0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.37			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
326	19.700	20.88	0.08	12.10	143.00	5.56	6.23	0.00	6.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.12
327	19.600	20.88	0.08	15.75	175.35	6.23	6.40	0.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.33
328	19.500	20.88	0.08	15.75	175.35	5.89	6.24	0.00	6.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
329	19.400	20.88	0.08	15.75	175.35	5.71	6.08	0.00	6.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.01
330	19.300	20.88	0.08	15.75	175.35	5.61	5.93	0.00	5.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.91
331	19.200	20.88	0.08	15.75	175.35	5.57	5.79	0.00	5.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
332	19.100	20.88	0.08	15.75	175.35	5.56	5.66	0.00	5.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
333	19.000	20.88	0.08	15.75	175.35	5.56	5.53	0.00	5.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.75
334	18.900	20.88	0.08	15.75	175.35	5.58	5.41	0.00	5.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.73
335	18.800	20.88	0.08	15.75	175.35	5.60	5.29	0.00	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
336	18.700	20.88	0.08	15.75	175.35	5.62	5.18	0.00	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.69
337	18.600	20.88	0.08	15.75	175.35	5.64	5.08	0.00	5.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.68
338	18.500	20.88	0.08	15.75	175.35	5.66	4.98	0.00	4.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.68
339	18.400	20.88	0.08	15.75	175.35	5.68	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.67

340	18.300	20.88	0.08	15.75	175.35	5.70	4.80	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.67
341	18.200	20.88	0.08	15.75	175.35	5.71	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.67
342	18.100	20.88	0.08	15.75	175.35	5.73	4.63	0.00	4.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.66
343	18.000	20.88	0.08	15.75	175.35	5.74	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.66
344	17.900	20.88	0.08	15.75	175.35	5.75	4.49	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.66
345	17.800	20.88	0.08	15.75	175.35	5.76	4.42	0.00	4.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.66
346	17.700	20.88	0.08	15.75	175.35	5.77	4.35	0.00	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.66
347	17.600	20.88	0.08	15.75	175.35	5.78	4.29	0.00	4.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.66
348	17.500	20.88	0.08	15.75	175.35	5.79	4.23	0.00	4.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.66
349	17.400	20.88	0.08	15.75	175.35	5.80	4.18	0.00	4.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.66
350	17.300	20.88	0.08	15.75	175.35	5.80	4.12	0.00	4.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.66

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 11 Grand Bayou Winter Projection Natural (no man made loads) condtions

********** 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
351	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.80	4.12	0.00	4.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66

********** 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
351	17.30	17.20	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
352	17.20	17.10	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
353	17.10	17.00	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
354	17.00	16.90	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
355	16.90	16.80	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
356	16.80	16.70	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
357	16.70	16.60	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
358	16.60	16.50	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
359	16.50	16.40	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
360	16.40	16.30	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
361	16.30	16.20	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
362	16.20	16.10	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
363	16.10	16.00	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
364	16.00	15.90	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
365	15.90	15.80	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
366	15.80	15.70	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
367	15.70	15.60	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
368	15.60	15.50	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
369	15.50	15.40	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
370	15.40	15.30	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
371	15.30	15.20	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
372	15.20	15.10	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
373	15.10	15.00	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
374	15.00	14.90	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002

TOT							16.26					78650.88	70224.00										
AVG						0.00171			1.12	29.26					32.77								
CUM							60.38																

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
351	17.200	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
352	17.100	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
353	17.000	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
354	16.900	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
355	16.800	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
356	16.700	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
357	16.600	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
358	16.500	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
359	16.400	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
360	16.300	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
361	16.200	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
362	16.100	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
363	16.000	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
364	15.900	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
365	15.800	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
366	15.700	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
367	15.600	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
368	15.500	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
369	15.400	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
370	15.300	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
371	15.200	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
372	15.100	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
373	15.000	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
374	14.900	8.93	0.63	0.05	0.00	0.00	0.00	0.00	0.00	1.71	1.71	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
AVG 20 DEG C RATE			0.61	0.05	0.00	0.00	0.00	0.00	0.00	1.62			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
351	17.200	20.88	0.08	15.75	175.35	5.78	3.98	0.00	3.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.71
352	17.100	20.88	0.08	15.75	175.35	5.76	3.85	0.00	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.75
353	17.000	20.88	0.08	15.75	175.35	5.74	3.72	0.00	3.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.78
354	16.900	20.88	0.08	15.75	175.35	5.73	3.59	0.00	3.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80
355	16.800	20.88	0.08	15.75	175.35	5.72	3.47	0.00	3.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.82
356	16.700	20.88	0.08	15.75	175.35	5.71	3.35	0.00	3.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
357	16.600	20.88	0.08	15.75	175.35	5.71	3.23	0.00	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
358	16.500	20.88	0.08	15.75	175.35	5.71	3.12	0.00	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.86
359	16.400	20.88	0.08	15.75	175.35	5.71	3.02	0.00	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.87
360	16.300	20.88	0.08	15.75	175.35	5.71	2.92	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.87
361	16.200	20.88	0.08	15.75	175.35	5.71	2.82	0.00	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
362	16.100	20.88	0.08	15.75	175.35	5.71	2.72	0.00	2.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
363	16.000	20.88	0.08	15.75	175.35	5.72	2.63	0.00	2.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
364	15.900	20.88	0.08	15.75	175.35	5.72	2.54	0.00	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
365	15.800	20.88	0.08	15.75	175.35	5.73	2.45	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
366	15.700	20.88	0.08	15.75	175.35	5.73	2.37	0.00	2.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
367	15.600	20.88	0.08	15.75	175.35	5.74	2.29	0.00	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
368	15.500	20.88	0.08	15.75	175.35	5.74	2.21	0.00	2.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
369	15.400	20.88	0.08	15.75	175.35	5.75	2.13	0.00	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90
370	15.300	20.88	0.08	15.75	175.35	5.75	2.06	0.00	2.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90
371	15.200	20.88	0.08	15.75	175.35	5.76	1.99	0.00	1.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90
372	15.100	20.88	0.08	15.75	175.35	5.77	1.92	0.00	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90
373	15.000	20.88	0.08	15.75	175.35	5.77	1.86	0.00	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90
374	14.900	20.88	0.08	15.75	175.35	5.78	1.79	0.00	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 12 Grand Bayou Winter Projection Natural (no man made loads) condtions

********** 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
375	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.78	1.79	0.00	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90

********** 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
375	14.90	14.80	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
376	14.80	14.70	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
377	14.70	14.60	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
378	14.60	14.50	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
379	14.50	14.40	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
380	14.40	14.30	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
381	14.30	14.20	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002

382	14.20	14.10	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
383	14.10	14.00	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
384	14.00	13.90	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
385	13.90	13.80	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
386	13.80	13.70	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
387	13.70	13.60	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
388	13.60	13.50	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
389	13.50	13.40	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
390	13.40	13.30	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
391	13.30	13.20	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
392	13.20	13.10	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
393	13.10	13.00	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
394	13.00	12.90	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
395	12.90	12.80	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
396	12.80	12.70	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
397	12.70	12.60	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
398	12.60	12.50	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
399	12.50	12.40	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
TOT						14.20			68696.88	55625.00					
AVG					0.00204		1.24	22.25			27.48				
CUM						74.57									

********** 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
375	14.800	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
376	14.700	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
377	14.600	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
378	14.500	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
379	14.400	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
380	14.300	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
381	14.200	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
382	14.100	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
383	14.000	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
384	13.900	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
385	13.800	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
386	13.700	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
387	13.600	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
388	13.500	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
389	13.400	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
390	13.300	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
391	13.200	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
392	13.100	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
393	13.000	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
394	12.900	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
395	12.800	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
396	12.700	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
397	12.600	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
398	12.500	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
399	12.400	8.93	0.57	0.05	0.00	0.00	0.00	0.00	0.00	1.72	1.72	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00

AVG 20 DEG C RATE		0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.63			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
375	14.800	20.88	0.08	15.75	175.35	5.77	1.74	0.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
376	14.700	20.88	0.08	15.75	175.35	5.76	1.69	0.00	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.87
377	14.600	20.88	0.08	15.75	175.35	5.77	1.64	0.00	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.85
378	14.500	20.88	0.08	15.75	175.35	5.77	1.60	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
379	14.400	20.88	0.08	15.75	175.35	5.77	1.55	0.00	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
380	14.300	20.88	0.08	15.75	175.35	5.78	1.51	0.00	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.83
381	14.200	20.88	0.08	15.75	175.35	5.78	1.46	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.82
382	14.100	20.88	0.08	15.75	175.35	5.79	1.42	0.00	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.82
383	14.000	20.88	0.08	15.75	175.35	5.80	1.38	0.00	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.82
384	13.900	20.88	0.08	15.75	175.35	5.80	1.34	0.00	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.81
385	13.800	20.88	0.08	15.75	175.35	5.81	1.30	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.81
386	13.700	20.88	0.08	15.75	175.35	5.81	1.26	0.00	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.81
387	13.600	20.88	0.08	15.75	175.35	5.82	1.23	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.81
388	13.500	20.88	0.08	15.75	175.35	5.82	1.19	0.00	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.81
389	13.400	20.88	0.08	15.75	175.35	5.83	1.16	0.00	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.81
390	13.300	20.88	0.08	15.75	175.35	5.83	1.13	0.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80
391	13.200	20.88	0.08	15.75	175.35	5.84	1.09	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80
392	13.100	20.88	0.08	15.75	175.35	5.84	1.06	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80
393	13.000	20.88	0.08	15.75	175.35	5.85	1.03	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80
394	12.900	20.88	0.08	15.75	175.35	5.85	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80
395	12.800	20.88	0.08	15.75	175.35	5.85	0.97	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80
396	12.700	20.88	0.08	15.75	175.35	5.86	0.95	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80
397	12.600	20.88	0.08	15.75	175.35	5.86	0.92	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80
398	12.500	20.88	0.08	15.75	175.35	5.86	0.89	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80
399	12.400	20.88	0.08	15.75	175.35	5.86	0.87	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80

********** 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
400	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.86	0.87	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80

********** 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
400	12.40	12.30	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
401	12.30	12.20	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
402	12.20	12.10	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
403	12.10	12.00	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
404	12.00	11.90	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
405	11.90	11.80	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
406	11.80	11.70	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
407	11.70	11.60	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
408	11.60	11.50	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
409	11.50	11.40	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
410	11.40	11.30	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
411	11.30	11.20	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
412	11.20	11.10	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
413	11.10	11.00	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
414	11.00	10.90	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
415	10.90	10.80	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
416	10.80	10.70	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
417	10.70	10.60	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
418	10.60	10.50	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
TOT						15.45			74746.00	53390.00					
AVG					0.00142		1.40	28.10			39.34				
CUM						90.02									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
400	12.300	8.93	0.50	0.05	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	0.38	0.00
401	12.200	8.93	0.50	0.05	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	0.38	0.00
402	12.100	8.93	0.50	0.05	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	0.38	0.00
403	12.000	8.93	0.50	0.05	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	0.38	0.00
404	11.900	8.93	0.50	0.05	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	0.38	0.00
405	11.800	8.93	0.50	0.05	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	0.38	0.00
406	11.700	8.93	0.50	0.05	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	0.38	0.00

407	11.600	8.93	0.50	0.05	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	0.38	0.00
408	11.500	8.93	0.50	0.05	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	0.38	0.00
409	11.400	8.93	0.50	0.05	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	0.38	0.00
410	11.300	8.93	0.50	0.05	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	0.38	0.00
411	11.200	8.93	0.50	0.05	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	0.38	0.00
412	11.100	8.93	0.50	0.05	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	0.38	0.00
413	11.000	8.93	0.50	0.05	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	0.38	0.00
414	10.900	8.93	0.50	0.05	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	0.38	0.00
415	10.800	8.93	0.50	0.05	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	0.38	0.00
416	10.700	8.93	0.50	0.05	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	0.38	0.00
417	10.600	8.93	0.50	0.05	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	0.38	0.00
418	10.500	8.93	0.50	0.05	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	0.38	0.00
AVG 20 DEG C RATE			0.49	0.05	0.00	0.00	0.00	0.00	0.00	1.49			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
400	12.300	20.88	0.08	15.75	175.35	5.89	0.83	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
401	12.200	20.88	0.08	15.75	175.35	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.	0.86
402	12.100	20.88	0.08	15.75	175.35	5.90	0.76	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
403	12.000	20.88	0.08	15.75	175.35	5.90	0.73	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90
404	11.900	20.88	0.08	15.75	175.35	5.90	0.70	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.91
405	11.800	20.88	0.08	15.75	175.35	5.90	0.68	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.92
406	11.700	20.88	0.08	15.75	175.35	5.90	0.65	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.92
407	11.600	20.88	0.08	15.75	175.35	5.90	0.62	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.93
408	11.500	20.88	0.08	15.75	175.35	5.89	0.60	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.93
409	11.400	20.88	0.08	15.75	175.35	5.89	0.57	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.94
410	11.300	20.88	0.08	15.75	175.35	5.89	0.55	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.94
411	11.200	20.88	0.08	15.75	175.35	5.89	0.53	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.94
412	11.100	20.88	0.08	15.75	175.35	5.89	0.51	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.94
413	11.000	20.88	0.08	15.75	175.35	5.89	0.48	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.94
414	10.900	20.88	0.08	15.75	175.35	5.89	0.47	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.94
415	10.800	20.88	0.08	15.75	175.35	5.90	0.45	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.94
416	10.700	20.88	0.08	15.75	175.35	5.90	0.43	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.94
417	10.600	20.88	0.08	15.75	175.35	5.90	0.41	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.94
418	10.500	20.88	0.08	15.75	175.35	5.90	0.39	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.94

********** 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
419	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.90	0.39	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94

********** 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
419	10.50	10.40	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
420	10.40	10.30	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
421	10.30	10.20	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
422	10.20	10.10	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
423	10.10	10.00	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
424	10.00	9.90	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
425	9.90	9.80	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
426	9.80	9.70	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
427	9.70	9.60	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
428	9.60	9.50	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
429	9.50	9.40	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
430	9.40	9.30	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
431	9.30	9.20	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
432	9.20	9.10	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
433	9.10	9.00	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
434	9.00	8.90	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
435	8.90	8.80	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
436	8.80	8.70	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
437	8.70	8.60	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
TOT						22.84			110522.07	69730.00					
AVG					0.00096		1.58	36.70			58.17				
CUM						112.87									

********** 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
419	10.400	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
420	10.300	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
421	10.200	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
422	10.100	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
423	10.000	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
424	9.900	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
425	9.800	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00

426	9.700	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
427	9.600	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
428	9.500	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
429	9.400	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
430	9.300	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
431	9.200	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
432	9.100	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
433	9.000	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
434	8.900	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
435	8.800	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
436	8.700	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
437	8.600	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.23	1.23	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
AVG 20 DEG C RATE			0.43	0.05	0.00	0.00	0.00	0.00	0.00	1.16			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
419	10.400	20.88	0.08	15.75	175.35	5.99	0.37	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.08
420	10.300	20.88	0.08	15.75	175.35	6.02	0.35	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
421	10.200	20.88	0.08	15.75	175.35	6.02	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
422	10.100	20.88	0.08	15.75	175.35	6.01	0.31	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
423	10.000	20.88	0.08	15.75	175.35	6.00	0.29	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.31
424	9.900	20.88	0.08	15.75	175.35	5.98	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.33
425	9.800	20.88	0.08	15.75	175.35	5.97	0.26	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.34
426	9.700	20.88	0.08	15.75	175.35	5.96	0.24	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35
427	9.600	20.88	0.08	15.75	175.35	5.95	0.23	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.36
428	9.500	20.88	0.08	15.75	175.35	5.94	0.21	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.36
429	9.400	20.88	0.08	15.75	175.35	5.94	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
430	9.300	20.88	0.08	15.75	175.35	5.93	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
431	9.200	20.88	0.08	15.75	175.35	5.93	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
432	9.100	20.88	0.08	15.75	175.35	5.93	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
433	9.000	20.88	0.08	15.75	175.35	5.93	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
434	8.900	20.88	0.08	15.75	175.35	5.93	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
435	8.800	20.88	0.08	15.75	175.35	5.93	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
436	8.700	20.88	0.08	15.75	175.35	5.93	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
437	8.600	20.88	0.08	15.75	175.35	5.93	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37

********** 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
438	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.93	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37

********** 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
438	8.60	8.50	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
439	8.50	8.40	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
440	8.40	8.30	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
441	8.30	8.20	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
442	8.20	8.10	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
443	8.10	8.00	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
444	8.00	7.90	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
445	7.90	7.80	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
446	7.80	7.70	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
447	7.70	7.60	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
448	7.60	7.50	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
449	7.50	7.40	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
450	7.40	7.30	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
451	7.30	7.20	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
452	7.20	7.10	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
453	7.10	7.00	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
454	7.00	6.90	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
455	6.90	6.80	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
456	6.80	6.70	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
457	6.70	6.60	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
TOT						22.38			108306.83	65839.99					
AVG					0.00103		1.65	32.92			54.15				
CUM						135.25									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
438	8.500	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
439	8.400	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
440	8.300	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
441	8.200	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
442	8.100	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
443	8.000	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00

444	7.900	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
445	7.800	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
446	7.700	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
447	7.600	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
448	7.500	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
449	7.400	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
450	7.300	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
451	7.200	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
452	7.100	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
453	7.000	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
454	6.900	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
455	6.800	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
456	6.700	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
457	6.600	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
AVG 20 DEG C RATE			0.41	0.05	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	0.36	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
438	8.500	20.88	0.08	15.75	175.35	5.86	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
439	8.400	20.88	0.08	15.75	175.35	5.84	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.22
440	8.300	20.88	0.08	15.75	175.35	5.83	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
441	8.200	20.88	0.08	15.75	175.35	5.84	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
442	8.100	20.88	0.08	15.75	175.35	5.85	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.12
443	8.000	20.88	0.08	15.75	175.35	5.86	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.10
444	7.900	20.88	0.08	15.75	175.35	5.87	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.09
445	7.800	20.88	0.08	15.75	175.35	5.88	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.08
446	7.700	20.88	0.08	15.75	175.35	5.89	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.08
447	7.600	20.88	0.08	15.75	175.35	5.90	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.07
448	7.500	20.88	0.08	15.75	175.35	5.90	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.07
449	7.400	20.88	0.08	15.75	175.35	5.91	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.07
450	7.300	20.88	0.08	15.75	175.35	5.91	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.07
451	7.200	20.88	0.08	15.75	175.35	5.91	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.07
452	7.100	20.88	0.08	15.75	175.35	5.92	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.06
453	7.000	20.88	0.08	15.75	175.35	5.92	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.06
454	6.900	20.88	0.08	15.75	175.35	5.92	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.06
455	6.800	20.88	0.08	15.75	175.35	5.92	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.06
456	6.700	20.88	0.08	15.75	175.35	5.92	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.06
457	6.600	20.88	0.08	15.75	175.35	5.92	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.06

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
458	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.92	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06

********** 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
458	6.60	6.50	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
459	6.50	6.40	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
460	6.40	6.30	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
461	6.30	6.20	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
462	6.20	6.10	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
463	6.10	6.00	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
464	6.00	5.90	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
465	5.90	5.80	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
466	5.80	5.70	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
467	5.70	5.60	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
468	5.60	5.50	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
469	5.50	5.40	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
470	5.40	5.30	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
471	5.30	5.20	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
472	5.20	5.10	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
473	5.10	5.00	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
474	5.00	4.90	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
475	4.90	4.80	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
TOT						19.99			96717.61	63630.00					
AVG					0.00104		1.52	35.35			53.73				
CUM						155.24									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
458	6.500	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
459	6.400	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
460	6.300	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
461	6.200	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
462	6.100	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
463	6.000	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
464	5.900	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
465	5.800	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00

466	5.700	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
467	5.600	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
468	5.500	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
469	5.400	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
470	5.300	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
471	5.200	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
472	5.100	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
473	5.000	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
474	4.900	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
475	4.800	8.93	0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.35	1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
AVG 20 DEG C RATE			0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.28			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
458	6.500	20.88	0.08	15.75	175.35	5.96	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.12
459	6.400	20.88	0.08	15.75	175.35	5.97	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.16
460	6.300	20.88	0.08	15.75	175.35	5.97	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.18
461	6.200	20.88	0.08	15.75	175.35	5.97	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
462	6.100	20.88	0.08	15.75	175.35	5.96	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
463	6.000	20.88	0.08	15.75	175.35	5.95	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.22
464	5.900	20.88	0.08	15.75	175.35	5.95	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.23
465	5.800	20.88	0.08	15.75	175.35	5.94	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.23
466	5.700	20.88	0.08	15.75	175.35	5.94	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
467	5.600	20.88	0.08	15.75	175.35	5.94	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
468	5.500	20.88	0.08	15.75	175.35	5.93	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
469	5.400	20.88	0.08	15.75	175.35	5.93	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
470	5.300	20.88	0.08	15.75	175.35	5.93	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
471	5.200	20.88	0.08	15.75	175.35	5.93	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
472	5.100	20.88	0.08	15.75	175.35	5.93	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
473	5.000	20.88	0.08	15.75	175.35	5.93	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
474	4.900	20.88	0.08	15.75	175.35	5.93	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
475	4.800	20.88	0.08	15.75	175.35	5.93	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24

********** 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
476	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.93	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24

********** 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
476	4.80	4.70	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
477	4.70	4.60	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
478	4.60	4.50	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
479	4.50	4.40	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
480	4.40	4.30	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
481	4.30	4.20	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
482	4.20	4.10	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
483	4.10	4.00	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
484	4.00	3.90	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
485	3.90	3.80	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
486	3.80	3.70	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
487	3.70	3.60	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
488	3.60	3.50	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
489	3.50	3.40	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
490	3.40	3.30	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
491	3.30	3.20	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
492	3.20	3.10	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
493	3.10	3.00	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
494	3.00	2.90	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
495	2.90	2.80	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
496	2.80	2.70	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
497	2.70	2.60	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
498	2.60	2.50	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
499	2.50	2.40	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
500	2.40	2.30	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
501	2.30	2.20	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
502	2.20	2.10	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
503	2.10	2.00	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
504	2.00	1.90	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
505	1.90	1.80	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
506	1.80	1.70	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
507	1.70	1.60	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
508	1.60	1.50	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
509	1.50	1.40	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
510	1.40	1.30	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
511	1.30	1.20	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
512	1.20	1.10	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
513	1.10	1.00	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001

514	1.00	0.90	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
515	0.90	0.80	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
516	0.80	0.70	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
517	0.70	0.60	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
518	0.60	0.50	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
519	0.50	0.40	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
520	0.40	0.30	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
521	0.30	0.20	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
522	0.20	0.10	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
523	0.10	0.00	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
TOT						69.66			337040.84	165215.98					
AVG					0.00080		2.04	34.42			70.22				
CUM						224.90									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
476	4.700	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
477	4.600	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
478	4.500	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
479	4.400	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
480	4.300	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
481	4.200	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
482	4.100	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
483	4.000	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
484	3.900	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
485	3.800	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
486	3.700	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
487	3.600	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
488	3.500	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
489	3.400	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
490	3.300	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
491	3.200	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
492	3.100	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
493	3.000	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
494	2.900	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
495	2.800	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
496	2.700	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
497	2.600	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
498	2.500	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
499	2.400	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
500	2.300	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
501	2.200	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
502	2.100	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
503	2.000	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
504	1.900	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
505	1.800	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
506	1.700	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
507	1.600	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
508	1.500	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
509	1.400	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00

510	1.300	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
511	1.200	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
512	1.100	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
513	1.000	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
514	0.900	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
515	0.800	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
516	0.700	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
517	0.600	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
518	0.500	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
519	0.400	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
520	0.300	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
521	0.200	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
522	0.100	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
523	0.000	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
AVG 20 DEG C RATE			0.33	0.05	0.00	0.00	0.00	0.00	0.00	0.64			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
476	4.700	20.88	0.08	15.75	175.35	6.06	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.42
477	4.600	20.88	0.08	15.75	175.35	6.11	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
478	4.500	20.88	0.08	15.75	175.35	6.11	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.61
479	4.400	20.88	0.08	15.75	175.35	6.10	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.65
480	4.300	20.88	0.08	15.75	175.35	6.08	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.68
481	4.200	20.88	0.08	15.75	175.35	6.06	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
482	4.100	20.88	0.08	15.75	175.35	6.04	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
483	4.000	20.88	0.08	15.75	175.35	6.02	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
484	3.900	20.88	0.08	15.75	175.35	6.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
485	3.800	20.88	0.08	15.75	175.35	6.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
486	3.700	20.88	0.08	15.75	175.35	5.99	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
487	3.600	20.88	0.09	15.75	175.35	5.99	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
488	3.500	20.88	0.09	15.75	175.35	5.98	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
489	3.400	20.88	0.09	15.75	175.35	5.98	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
490	3.300	20.88	0.09	15.75	175.35	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
491	3.200	20.88	0.09	15.75	175.35	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
492	3.100	20.88	0.09	15.75	175.35	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
493	3.000	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
494	2.900	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
495	2.800	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
496	2.700	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
497	2.600	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
498	2.500	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
499	2.400	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
500	2.300	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
501	2.200	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
502	2.100	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
503	2.000	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
504	1.900	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
505	1.800	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
506	1.700	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74

507	1.600	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
508	1.500	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
509	1.400	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
510	1.300	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
511	1.200	20.88	0.09	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
512	1.100	20.88	0.10	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
513	1.000	20.88	0.10	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
514	0.900	20.88	0.10	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
515	0.800	20.88	0.10	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
516	0.700	20.88	0.10	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
517	0.600	20.88	0.10	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
518	0.500	20.88	0.10	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
519	0.400	20.88	0.10	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
520	0.300	20.88	0.10	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
521	0.200	20.88	0.10	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
522	0.100	20.88	0.10	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
523	0.000	20.88	0.10	15.75	175.35	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74

STREAM SUMMARY
Grand Bayou

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Winter Projection Natural (no man made loads) condtions

TRAVEL TIME	=	224.90	DAYS		
MAXIMUM EFFLUENT	=	50.00	PERCENT		
FLOW	=	0.02800	TO	0.05600	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00057	TO	0.00204	m/s
DEPTH	=	1.00	TO	2.04	m
WIDTH	=	19.50	TO	36.70	m
BOD DECAY	=	0.05	TO	0.05	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.68	TO	1.72	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.34	TO	0.70	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	=	20.88	TO	20.88	deg C
DISSOLVED OXYGEN	=	5.56	TO	7.19	mg/L

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Winter Projection Natural (no man made loads) condtions

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	0.084	58.4	47.2	0.0	0.0	0.0	0.0	0.0	0.0	10.1
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	0.112	77.8	66.8	0.0	0.0	0.0	0.0	0.0	0.0	14.8
WITHDRAWLS	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OUTFLOW THRU LOWER BNDRY	-0.196	-100.5	-84.8	0.0	0.0	0.0	0.0	0.0	0.0	-21.0
DISPERSION THRU LOWER BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	9743.0	0.0	0.0					3883.0
NATURAL REAERATION		17050.7								
DAM REAERATION		0.0								
BACKGROUND SOD		-3427.3								
BOD#1 DECAY		-9772.5	-9772.5							
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		-3887.1								-3887.1
NCM SETTLING		0.0								0.0
TOTAL INPUTS	0.196	17186.8	9857.0	0.0	0.0	0.0	0.0	0.0	0.0	3908.0
TOTAL OUTPUTS	-0.196	-17187.3	-9857.3	0.0	0.0	0.0	0.0	0.0	0.0	-3908.0
NET CONVERGENCE ERROR	0.000	-0.5	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.1

.....EXECUTION COMPLETED

APPENDIX P

Projection NPS Loads and TMDL Calculations

Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Subsegment 020102

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: Theriot Canal	3.70	20.90	42	16	0.543	0.207	1.75	**2.50**
Reach 2: Theriot Canal	1.50	14.00	18	6	0.857	0.286	1.00	**2.14**
Reach 4: Bayou Boeuf	4.30	47.85	325	75	1.580	0.365	1.60	**3.54**
Reach 5: Halpin Canal	7.50	23.20	80	25	0.460	0.144	2.30	**2.90**
Reach 6: Halpin Canal	2.20	23.80	1000	135	19.099	2.578	6.00	**27.68**
Reach 7:Halpin Canal	5.80	24.40	800	160	5.653	1.131	3.5	**10.28**
Reach 8: Bayou Boeuf	1.50	41.50	300	200	4.819	3.213	2.0	**10.03**
Reach 9: Grand Bayou	2.20	19.50	100	170	2.331	3.963	8.0	**14.29**
Reach 10: Grand Bayou	2.50	32.50	100	160	1.231	1.969	7.0	**10.20**
Reach 11: Grand Bayou	2.40	29.26	0	150	0.000	2.136	9.0	**11.14**
Reach 12: Grand Bayou	2.50	22.25	0	120	0.000	2.157	9.5	**11.66**
Reach 13: Grand Bayou	1.90	28.10	0	120	0.000	2.248	6.5	**8.75**
Reach 14: Grand Bayou	1.90	36.70	0	150	0.000	2.151	3.0	**5.15**
Reach 15: Grand Bayou	2.00	32.92	0	150	0.000	2.278	4.5	**6.78**
Reach 16: Grand Bayou	1.80	35.35	0	160	0.000	2.515	4.5	**7.01**
Reach 17: Grand Bayou	4.80	34.42	0	525	0.000	3.178	1.5	4.68
Reach 18: Bayou Boeuf	1.40	69.03	350	70	3.622	0.724	3.5	7.85
Reach 19: Bayou Boeuf	4.60	62.80	700	260	2.423	0.900	3.5	6.82

FILE: R:\PROJECTS\3110-051\BEOUF PDF\TMDL LOAD CALC FOR 020102-IMPROVED.XLS

Summer TMDL Summary:

Subsegment 020102

Calculation of the TMDL - Kilograms per day			
Load description	WLA (kg/day)	LA (kg/day)	MOS Load (kg/day)
Point Source loads	123		31
Headwater / Tributatary loads		9	0
Benthic loads		3,172	0
Incremental Loads		0	0
SUB-TOTAL	**123**	**3,181**	**31**
TMDL = WLA + LA + MOS		***3,335 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	123		31
Natural Nonpoint Loads		3,181	
Manmade Nonpoint Loads		0	0
SUB-TOTAL	**123**	**3,181**	**31**
TMDL = WLA + LA + MOS		***3,335 kg/day***	

FILE: R:\PROJECTS\3110-051\BEOUF PDF\TMDL LOAD CALC FOR 020102-IMPROVED.XLS

Summer Projection, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body:	Subsegment 020102

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: Theriot Canal	0.543	0.207	1.75	2.500	3.70	2.00	37%	1.26	20.90	29.00	100.0%	1.26	1.26	0.274	0.104	0.88	21	8	120	149.45	0	0	0	0	0	0
Reach 2: Theriot Canal	0.857	0.286	1.00	2.143	1.50	2.00	37%	1.26	14.00	29.00	100.0%	1.26	1.26	0.504	0.168	0.59	11	4	22	35.88	0	0	0	0	0	0
Reach 4: Bayou Boeuf	1.580	0.365	1.60	3.544	4.30	2.00	37%	1.26	47.85	29.00	100.0%	1.26	1.26	0.562	0.130	0.57	116	27	206	348.50	0	0	0	0	0	0
Reach 5: Halpin Canal	0.460	0.144	2.30	2.903	7.50	2.00	37%	1.26	23.20	29.00	100.0%	1.26	1.26	0.200	0.062	1.00	35	11	306	351.68	0	0	0	0	0	0
Reach 6: Halpin Canal	19.099	2.578	6.00	27.677	2.20	2.00	37%	1.26	23.80	29.00	100.0%	1.26	1.26	0.869	0.117	0.27	46	6	25	76.88	0	0	0	0	0	0
Reach 7:Halpin Canal	5.653	1.131	3.50	10.283	5.80	2.00	37%	1.26	24.40	29.00	100.0%	1.26	1.26	0.693	0.139	0.43	98	20	107	224.60	0	0	0	0	0	0
Reach 8: Bayou Boeuf	4.819	3.213	2.00	10.032	1.50	2.00	37%	1.26	41.50	29.00	100.0%	1.26	1.26	0.605	0.404	0.25	38	25	28	90.36	0	0	0	0	0	0
Reach 9: Grand Bayou	2.331	3.963	8.00	14.294	2.20	2.00	37%	1.26	19.50	29.00	100.0%	1.26	1.26	0.205	0.349	0.71	9	15	53	77.12	0	0	0	0	0	0
Reach 10: Grand Bayou	1.231	1.969	7.00	10.200	2.50	2.00	37%	1.26	32.50	29.00	100.0%	1.26	1.26	0.152	0.243	0.86	12	20	124	155.95	0	0	0	0	0	0
Reach 11: Grand Bayou	0.000	2.136	9.00	11.136	2.40	2.00	37%	1.26	29.26	29.00	100.0%	1.26	1.26	0.000	0.242	1.02	0	17	126	143.01	0	0	0	0	0	0
Reach 12: Grand Bayou	0.000	2.157	9.50	11.657	2.50	2.00	37%	1.26	22.25	29.00	100.0%	1.26	1.26	0.000	0.233	1.03	0	13	101	113.64	0	0	0	0	0	0
Reach 13: Grand Bayou	0.000	2.248	6.50	8.748	1.90	2.00	37%	1.26	28.10	29.00	100.0%	1.26	1.26	0.000	0.324	0.94	0	17	88	105.39	0	0	0	0	0	0
Reach 14: Grand Bayou	0.000	2.151	3.00	5.151	1.90	2.00	37%	1.26	36.70	29.00	100.0%	1.26	1.26	0.000	0.526	0.73	0	37	90	126.88	0	0	0	0	0	0
Reach 15: Grand Bayou	0.000	2.278	4.50	6.778	2.00	2.00	37%	1.26	32.92	29.00	100.0%	1.26	1.26	0.000	0.424	0.84	0	28	97	124.96	0	0	0	0	0	0
Reach 16: Grand Bayou	0.000	2.515	4.50	7.015	1.80	2.00	37%	1.26	35.35	29.00	100.0%	1.26	1.26	0.000	0.452	0.81	0	29	91	119.40	0	0	0	0	0	0
Reach 17: Grand Bayou	0.000	3.178	1.50	4.678	4.80	2.00	37%	1.26	34.42	29.00	100.0%	1.26	1.26	0.000	0.856	0.40	0	141	118	259.08	0	0	0	0	0	0
Reach 18: Bayou Boeuf	3.622	0.724	3.50	7.846	1.40	2.00	37%	1.26	69.03	29.00	100.0%	1.26	1.26	0.582	0.116	0.56	56	11	96	163.19	0	0	0	0	0	0
Reach 19: Bayou Boeuf	2.423	0.900	3.50	6.823	4.60	2.00	37%	1.26	62.80	29.00	100.0%	1.26	1.26	0.447	0.166	0.65	129	48	329	506.37	0	0	0	0	0	0
Sub-Total												22.68					570	476	2127	**3172**	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, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body:	Subsegment 020102

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: Theriot Canal	0.543	0.207	1.75	2.500	3.70	2.00	37%	1.26	20.90	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	21	8	120	149.45
Reach 2: Theriot Canal	0.857	0.286	1.00	2.143	1.50	2.00	37%	1.26	14.00	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	11	4	22	35.88
Reach 4: Bayou Boeuf	1.580	0.365	1.60	3.544	4.30	2.00	37%	1.26	47.85	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	116	27	206	348.50
Reach 5: Halpin Canal	0.460	0.144	2.30	2.903	7.50	2.00	37%	1.26	23.20	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	35	11	306	351.68
Reach 6: Halpin Canal	19.099	2.578	6.00	27.677	2.20	2.00	37%	1.26	23.80	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	46	6	25	76.88
Reach 7:Halpin Canal	5.653	1.131	3.50	10.283	5.80	2.00	37%	1.26	24.40	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	98	20	107	224.60
Reach 8: Bayou Boeuf	4.819	3.213	2.00	10.032	1.50	2.00	37%	1.26	41.50	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	38	25	28	90.36
Reach 9: Grand Bayou	2.331	3.963	8.00	14.294	2.20	2.00	37%	1.26	19.50	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	9	15	53	77.12
Reach 10: Grand Bayou	1.231	1.969	7.00	10.200	2.50	2.00	37%	1.26	32.50	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	12	20	124	155.95
Reach 11: Grand Bayou	0.000	2.136	9.00	11.136	2.40	2.00	37%	1.26	29.26	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	0	17	126	143.01
Reach 12: Grand Bayou	0.000	2.157	9.50	11.657	2.50	2.00	37%	1.26	22.25	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	0	13	101	113.64
Reach 13: Grand Bayou	0.000	2.248	6.50	8.748	1.90	2.00	37%	1.26	28.10	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	0	17	88	105.39
Reach 14: Grand Bayou	0.000	2.151	3.00	5.151	1.90	2.00	37%	1.26	36.70	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	0	37	90	126.88
Reach 15: Grand Bayou	0.000	2.278	4.50	6.778	2.00	2.00	37%	1.26	32.92	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	0	28	97	124.96
Reach 16: Grand Bayou	0.000	2.515	4.50	7.015	1.80	2.00	37%	1.26	35.35	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	0	29	91	119.40
Reach 17: Grand Bayou	0.000	3.178	1.50	4.678	4.80	2.00	37%	1.26	34.42	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	0	141	118	259.08
Reach 18: Bayou Boeuf	3.622	0.724	3.50	7.846	1.40	2.00	37%	1.26	69.03	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	56	11	96	163.19
Reach 19: Bayou Boeuf	2.423	0.900	3.50	6.823	4.60	2.00	37%	1.26	62.80	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	129	48	329	506.37
Sub-Total												22.68					0	0	0	**0**	570	476	2127	**3172**

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:

Subsegment 020102

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**
LA DOTD	BAYOU BOEUF	YES	0.000109531	0.000136914	45.0		20%	103.5	1.22	0.98	0.24	64.5	0.76	0.61	0.15	**1.99**	**1.59**	**0.40**
LAFOURCHE PAR COUNCIL	FORTY ARPENT CANAL	NO	0.002190626	0.002738283	30.0		20%	69.0	16.32	13.06	3.26	64.5	15.26	12.21	3.05	**31.58**	**25.27**	**6.32**
LAFOURCHE PAR SCH BD		YES	0.000219063	0.000273828	45.0		20%	103.5	2.45	1.96	0.49	64.5	1.53	1.22	0.31	**3.97**	**3.18**	**0.79**
LAFOURCHE PH COUNCIL SO CENTRAL P&D	PARISH PUMP CANAL - 40 ARPENT CANAL	NO	0.004381253	0.005476566	15.0		20%	34.5	16.32	13.06	3.26	43.0	20.35	16.28	4.07	**36.67**	**29.34**	**7.33**
PELTIER DEVELOPMENT CO LLC		NO	0.002190626	0.002738283	30.0		20%	69.0	16.32	13.06	3.26	64.5	15.26	12.21	3.05	**31.58**	**25.27**	**6.32**
BELLSOUTH	GRAND BAYOU	NO	2.19063E-05	2.73828E-05	45.0		20%	103.5	0.24	0.20	0.05	64.5	0.15	0.12	0.03	**0.40**	**0.32**	**0.08**
THIBODAUX LUMBER & CONCRETE CO	40 ARPENT CANAL	NO	0	0	45.0		20%	103.5	0.00	0.00	0.00	64.5	0.00	0.00	0.00	**0.00**	**0.00**	**0.00**
THOROUGHBRED PARK SVC CORP	40 ARPENT CANAL-B LAFOURCHE	NO	0.002190626	0.002738283	30.0		20%	69.0	16.32	13.06	3.26	64.5	15.26	12.21	3.05	**31.58**	**25.27**	**6.32**
THOROUGHBRED PARK SERVICE CORP	40 ARPENT CANAL-B LAFOURCHE	NO	0.001095313	0.001369142	30.0		20%	69.0	8.16	6.53	1.63	64.5	7.63	6.10	1.53	**15.79**	**12.63**	**3.16**
SUB-TOTAL Loads									**77.38**	**61.90**	**15.48**		**76.20**	**60.96**	**15.24**	**153.58**	**122.86**	**30.72**

(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:

Subsegment 020102

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**
Theriot Cnal	0.00283127	6.0	1.0	1.47	0.23	5.99	0.96	37%	0.92	0.15	100%	0.92	0.15	0.92	0.15	3.77	0.60	**0.00**	**1.07**
Halpin Canal	0.00283127	6.6	1.2	1.61	0.29	6.59	1.17	37%	1.02	0.18	100%	1.02	0.18	1.02	0.18	4.15	0.74	**0.00**	**1.20**
Grand Bayou	0.00283127	8.4	2.5	2.06	0.61	6.94	2.06	37%	1.07	0.32	100%	1.07	0.32	1.07	0.32	4.37	1.30	**0.00**	**1.39**
Bowie Canal	0.00283127	10.0	1.8	2.44	0.43	7.64	1.36	37%	1.18	0.21	100%	1.18	0.21	1.18	0.21	4.82	0.85	**0.00**	**1.39**
Pitre Lening Canal	0.00283127	6.5	1.4	1.60	0.33	6.53	1.35	37%	1.01	0.21	100%	1.01	0.21	1.01	0.21	4.11	0.85	**0.00**	**1.21**
Unnmaed Canal	0.00283127	6.5	1.4	1.60	0.33	6.53	1.35	37%	1.01	0.21	100%	1.01	0.21	1.01	0.21	4.11	0.85	**0.00**	**1.21**
Bayou Onion	0.00283127	10.0	3.0	2.43	0.73	6.93	2.07	37%	1.07	0.32	100%	1.07	0.32	1.07	0.32	4.37	1.30	**0.00**	**1.39**
SUB-TOTAL TMDL LOADING				**13**	**3**				**7**	**2**		**7**	**2**	**7**	**2**			**0**	**9**

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%**

Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Subsegment 020103

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 3: Lake Boeuf	3.80	1748.00	8900	3150	1.340	0.474	0.20	**2.01**

FILE: R:\PROJECTS\3110-051\BEOUF PDF\TMDL LOAD CALC FOR 020103-IMPROVED.XLS

Summer TMDL Summary:

Subsegment 020103

Calculation of the TMDL - Kilograms per day			
Load description	WLA (kg/day)	LA (kg/day)	MOS Load (kg/day)
Point Source loads	0		0
Headwater / Tributatary loads		0	0
Benthic loads		9,003	0
Incremental Loads		0	0
SUB-TOTAL	**0**	**9,003**	**0**
TMDL = WLA + LA + MOS		***9,003 kg/day***	

Calculation of the TMDL - Pounds per day			
Load description	WLA (lbs/day) (1)	LA (lbs/day) (1)	MOS Load (lbs/day) (1)
Point Source loads	0		0
Headwater / Tributatary loads		0	0
Benthic loads		19,852	0
Incremental Loads		0	0
SUB-TOTAL	**0**	**19,852**	**0**
TMDL = WLA + LA + MOS		***19,852 lbs/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	0		0
Natural Nonpoint Loads		9,003	
Manmade Nonpoint Loads		0	0
SUB-TOTAL	**0**	**9,003**	**0**
TMDL = WLA + LA + MOS		***9,003 kg/day***	

Calculation of the TMDL - Pounds per day			
Load description	WLA (lbs/day)	LA (lbs/day)	MOS Load (lbs/day)
Point Source loads	0		0
Natural Nonpoint Loads		19,852	
Manmade Nonpoint Loads		0	0
SUB-TOTAL	**0**	**19,852**	**0**
TMDL = WLA + LA + MOS		***19,852 lbs/day***	

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Summer Projection, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body:	Subsegment 020103

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 3: Lake Boeuf	1.340	0.474	0.20	2.014	3.80	2.00	37%	1.26	1748.00	29.00	100.0%	1.26	1.26	0.838	0.297	0.13	5568	1971	1465	9003.18	0	0	0	0	0	0
Sub-Total												1.26					5568	1971	1465	**9003**	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\BEOUF PDF\TMDL LOAD CALC FOR 020103-IMPROVED.XLS

Summer Projection, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body:	Subsegment 020103

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 3: Lake Boeuf	1.340	0.474	0.20	2.014	3.80	2.00	37%	1.26	1748.00	29.00	100.0%	1.26	0.00	0.000	0.000	0.00	0	0	0	0.00	5568	1971	1465	9003.18
Sub-Total												1.26					0	0	0	**0**	5568	1971	1465	**9003**

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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Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Subsegment 020102

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: Theriot Canal	3.70	20.90	42	16	0.543	0.207	1.75	**2.50**
Reach 2: Theriot Canal	1.50	14.00	18	6	0.857	0.286	1.00	**2.14**
Reach 4: Bayou Boeuf	4.30	47.85	325	75	1.580	0.365	1.60	**3.54**
Reach 5: Halpin Canal	7.50	23.20	80	25	0.460	0.144	2.30	**2.90**
Reach 6: Halpin Canal	2.20	23.80	1000	135	19.099	2.578	6.00	**27.68**
Reach 7:Halpin Canal	5.80	24.40	800	160	5.653	1.131	3.5	**10.28**
Reach 8: Bayou Boeuf	1.50	41.50	300	200	4.819	3.213	2.0	**10.03**
Reach 9: Grand Bayou	2.20	19.50	100	170	2.331	3.963	8.0	**14.29**
Reach 10: Grand Bayou	2.50	32.50	100	160	1.231	1.969	7.0	**10.20**
Reach 11: Grand Bayou	2.40	29.26	0	150	0.000	2.136	9.0	**11.14**
Reach 12: Grand Bayou	2.50	22.25	0	120	0.000	2.157	9.5	**11.66**
Reach 13: Grand Bayou	1.90	28.10	0	120	0.000	2.248	6.5	**8.75**
Reach 14: Grand Bayou	1.90	36.70	0	150	0.000	2.151	3.0	**5.15**
Reach 15: Grand Bayou	2.00	32.92	0	150	0.000	2.278	4.5	**6.78**
Reach 16: Grand Bayou	1.80	35.35	0	160	0.000	2.515	4.5	**7.01**
Reach 17: Grand Bayou	4.80	34.42	0	525	0.000	3.178	1.5	4.68
Reach 18: Bayou Boeuf	1.40	69.03	350	70	3.622	0.724	3.5	7.85
Reach 19: Bayou Boeuf	4.60	62.80	700	260	2.423	0.900	3.5	6.82

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Winter TMDL Summary:

Subsegment 020102

Calculation of the TMDL - Kilograms per day			
Load description	WLA (kg/day)	LA (kg/day)	MOS Load (kg/day)
Point Source loads	123		31
Headwater / Tributatary loads		141	0
Benthic loads		3,880	49
Incremental Loads		0	0
SUB-TOTAL	**123**	**4,021**	**80**
TMDL = WLA + LA + MOS		***4,224 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	123		31
Natural Nonpoint Loads		3,825	
Manmade Nonpoint Loads		196	49
SUB-TOTAL	**123**	**4,021**	**80**
TMDL = WLA + LA + MOS		***4,224 kg/day***	

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Winter Projection, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body:	Subsegment 020102

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: Theriot Canal	0.543	0.207	1.75	2.500	3.70	2.00	0%	2.00	20.90	20.88	98.0%	2.01	2.01	0.437	0.167	1.41	34	13	115	161.83	0	0	0	0	0	0
Reach 2: Theriot Canal	0.857	0.286	1.00	2.143	1.50	2.00	0%	2.00	14.00	20.88	98.0%	2.00	2.00	0.801	0.267	0.94	17	6	21	43.19	0	0	0	0	0	0
Reach 4: Bayou Boeuf	1.580	0.365	1.60	3.544	4.30	2.00	0%	2.00	47.85	20.88	98.0%	2.03	2.04	0.909	0.210	0.92	187	43	200	430.24	2	1	1	0	1	2
Reach 5: Halpin Canal	0.460	0.144	2.30	2.903	7.50	2.00	0%	2.00	23.20	20.88	98.0%	2.02	2.02	0.320	0.100	1.60	56	17	295	367.82	1	1	0	0	1	1
Reach 6: Halpin Canal	19.099	2.578	6.00	27.677	2.20	2.00	0%	2.00	23.80	20.88	98.0%	2.51	2.64	1.823	0.246	0.57	95	13	32	140.04	7	1	5	1	2	7
Reach 7:Halpin Canal	5.653	1.131	3.50	10.283	5.80	2.00	0%	2.00	24.40	20.88	98.0%	2.17	2.21	1.213	0.243	0.75	172	34	112	318.40	6	2	3	1	2	6
Reach 8: Bayou Boeuf	4.819	3.213	2.00	10.032	1.50	2.00	0%	2.00	41.50	20.88	98.0%	2.16	2.20	1.057	0.705	0.44	66	44	29	138.56	3	0	1	1	1	3
Reach 9: Grand Bayou	2.331	3.963	8.00	14.294	2.20	2.00	0%	2.00	19.50	20.88	98.0%	2.25	2.31	0.376	0.640	1.29	16	27	59	102.14	3	1	0	1	2	3
Reach 10: Grand Bayou	1.231	1.969	7.00	10.200	2.50	2.00	0%	2.00	32.50	20.88	98.0%	2.16	2.21	0.266	0.426	1.51	22	35	130	186.16	3	2	0	1	2	3
Reach 11: Grand Bayou	0.000	2.136	9.00	11.136	2.40	2.00	0%	2.00	29.26	20.88	98.0%	2.18	2.23	0.000	0.427	1.80	0	30	134	163.69	3	3	0	1	3	3
Reach 12: Grand Bayou	0.000	2.157	9.50	11.657	2.50	2.00	0%	2.00	22.25	20.88	98.0%	2.19	2.24	0.000	0.415	1.83	0	23	107	130.47	3	2	0	0	2	3
Reach 13: Grand Bayou	0.000	2.248	6.50	8.748	1.90	2.00	0%	2.00	28.10	20.88	98.0%	2.13	2.17	0.000	0.557	1.61	0	30	91	120.69	2	1	0	0	1	2
Reach 14: Grand Bayou	0.000	2.151	3.00	5.151	1.90	2.00	0%	2.00	36.70	20.88	98.0%	2.06	2.08	0.000	0.868	1.21	0	61	89	149.76	1	1	0	0	1	1
Reach 15: Grand Bayou	0.000	2.278	4.50	6.778	2.00	2.00	0%	2.00	32.92	20.88	98.0%	2.10	2.12	0.000	0.712	1.41	0	47	98	144.82	2	1	0	1	1	2
Reach 16: Grand Bayou	0.000	2.515	4.50	7.015	1.80	2.00	0%	2.00	35.35	20.88	98.0%	2.10	2.13	0.000	0.762	1.36	0	48	92	140.18	2	1	0	1	1	2
Reach 17: Grand Bayou	0.000	3.178	1.50	4.678	4.80	2.00	0%	2.00	34.42	20.88	98.0%	2.05	2.07	0.000	1.404	0.66	0	232	116	347.73	2	1	0	2	1	2
Reach 18: Bayou Boeuf	3.622	0.724	3.50	7.846	1.40	2.00	0%	2.00	69.03	20.88	98.0%	2.12	2.15	0.991	0.198	0.96	96	19	98	212.68	3	1	1	0	1	3
Reach 19: Bayou Boeuf	2.423	0.900	3.50	6.823	4.60	2.00	0%	2.00	62.80	20.88	98.0%	2.10	2.12	0.753	0.280	1.09	218	81	332	630.50	7	4	2	1	4	7
Sub-Total												38.35					977	803	2149	**3929**	48		15	9	25	**49**

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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Winter Projection, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body:	Subsegment 020102

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: Theriot Canal	0.543	0.207	1.75	2.500	3.70	2.00	0%	2.00	20.90	20.88	98.0%	2.01	0.01	0.003	0.001	0.01	0	0	1	1.01	34	13	114	160.83
Reach 2: Theriot Canal	0.857	0.286	1.00	2.143	1.50	2.00	0%	2.00	14.00	20.88	98.0%	2.00	0.00	0.001	0.000	0.00	0	0	0	0.08	17	6	21	43.12
Reach 4: Bayou Boeuf	1.580	0.365	1.60	3.544	4.30	2.00	0%	2.00	47.85	20.88	98.0%	2.03	0.04	0.017	0.004	0.02	4	1	4	8.15	183	42	196	422.10
Reach 5: Halpin Canal	0.460	0.144	2.30	2.903	7.50	2.00	0%	2.00	23.20	20.88	98.0%	2.02	0.02	0.004	0.001	0.02	1	0	3	4.11	55	17	291	363.71
Reach 6: Halpin Canal	19.099	2.578	6.00	27.677	2.20	2.00	0%	2.00	23.80	20.88	98.0%	2.51	0.64	0.443	0.060	0.14	23	3	8	34.03	72	10	24	106.01
Reach 7:Halpin Canal	5.653	1.131	3.50	10.283	5.80	2.00	0%	2.00	24.40	20.88	98.0%	2.17	0.21	0.114	0.023	0.07	16	3	11	29.88	156	31	102	288.53
Reach 8: Bayou Boeuf	4.819	3.213	2.00	10.032	1.50	2.00	0%	2.00	41.50	20.88	98.0%	2.16	0.20	0.096	0.064	0.04	6	4	3	12.64	60	40	26	125.91
Reach 9: Grand Bayou	2.331	3.963	8.00	14.294	2.20	2.00	0%	2.00	19.50	20.88	98.0%	2.25	0.31	0.050	0.085	0.17	2	4	8	13.61	14	24	51	88.54
Reach 10: Grand Bayou	1.231	1.969	7.00	10.200	2.50	2.00	0%	2.00	32.50	20.88	98.0%	2.16	0.21	0.025	0.040	0.14	2	3	12	17.31	20	31	118	168.85
Reach 11: Grand Bayou	0.000	2.136	9.00	11.136	2.40	2.00	0%	2.00	29.26	20.88	98.0%	2.18	0.23	0.000	0.044	0.18	0	3	14	16.78	0	27	120	146.92
Reach 12: Grand Bayou	0.000	2.157	9.50	11.657	2.50	2.00	0%	2.00	22.25	20.88	98.0%	2.19	0.24	0.000	0.045	0.20	0	2	12	14.05	0	21	96	116.42
Reach 13: Grand Bayou	0.000	2.248	6.50	8.748	1.90	2.00	0%	2.00	28.10	20.88	98.0%	2.13	0.17	0.000	0.043	0.13	0	2	7	9.39	0	27	84	111.30
Reach 14: Grand Bayou	0.000	2.151	3.00	5.151	1.90	2.00	0%	2.00	36.70	20.88	98.0%	2.06	0.08	0.000	0.033	0.05	0	2	3	5.68	0	58	86	144.09
Reach 15: Grand Bayou	0.000	2.278	4.50	6.778	2.00	2.00	0%	2.00	32.92	20.88	98.0%	2.10	0.12	0.000	0.040	0.08	0	3	6	8.16	0	44	92	136.66
Reach 16: Grand Bayou	0.000	2.515	4.50	7.015	1.80	2.00	0%	2.00	35.35	20.88	98.0%	2.10	0.13	0.000	0.045	0.08	0	3	5	8.27	0	46	86	131.91
Reach 17: Grand Bayou	0.000	3.178	1.50	4.678	4.80	2.00	0%	2.00	34.42	20.88	98.0%	2.05	0.07	0.000	0.045	0.02	0	8	4	11.26	0	224	112	336.47
Reach 18: Bayou Boeuf	3.622	0.724	3.50	7.846	1.40	2.00	0%	2.00	69.03	20.88	98.0%	2.12	0.15	0.067	0.013	0.07	7	1	7	14.48	89	18	91	198.20
Reach 19: Bayou Boeuf	2.423	0.900	3.50	6.823	4.60	2.00	0%	2.00	62.80	20.88	98.0%	2.10	0.12	0.043	0.016	0.06	12	5	19	35.85	205	76	313	594.65
Sub-Total												38.35					73	47	125	**245**	905	755	2024	**3684**

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

Subsegment 020102

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**
Theriot Cnal	0.028312701	6.0	1.0	14.65	2.35	5.99	0.96	0%	14.65	2.35	98%	14.65	2.35	14.65	2.35	5.99	0.96	**0.00**	**17.00**
Halpin Canal	0.028312701	6.6	1.2	16.12	2.86	6.59	1.17	0%	16.12	2.86	98%	16.12	2.86	16.12	2.86	6.59	1.17	**0.00**	**18.98**
Grand Bayou	0.028312701	8.4	2.5	20.57	6.12	6.94	2.06	0%	16.97	5.04	98%	17.04	5.07	17.06	5.07	6.97	2.07	**0.02**	**22.11**
Bowie Canal	0.028312701	10.0	1.8	24.39	4.33	7.64	1.36	0%	18.70	3.32	98%	18.81	3.34	18.84	3.34	7.70	1.37	**0.03**	**22.15**
Pitre Lening Canal	0.028312701	6.5	1.4	15.97	3.30	6.53	1.35	0%	15.97	3.30	98%	15.97	3.30	15.97	3.30	6.53	1.35	**0.00**	**19.28**
Unnmaed Canal	0.028312701	6.5	1.4	15.97	3.30	6.53	1.35	0%	15.97	3.30	98%	15.97	3.30	15.97	3.30	6.53	1.35	**0.00**	**19.28**
Bayou Onion	0.028312701	10.0	3.0	24.34	7.27	6.93	2.07	0%	16.96	5.06	98%	17.10	5.11	17.14	5.12	7.01	2.09	**0.05**	**22.21**
SUB-TOTAL TMDL LOADING				**132**	**30**				**115**	**25**		**116**	**25**	**116**	**25**			**0**	**141**

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 Calculations for Point Source loads:

Subsegment 020102

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**
LA DOTD	BAYOU BOEUF	YES	0.000109531	0.000136914	45.0		20%	103.5	1.22	0.98	0.24	64.5	0.76	0.61	0.15	**1.99**	**1.59**	**0.40**
LAFOURCHE PAR COUNCIL	FORTY ARPENT CANAL	NO	0.002190626	0.002738283	30.0		20%	69.0	16.32	13.06	3.26	64.5	15.26	12.21	3.05	**31.58**	**25.27**	**6.32**
LAFOURCHE PAR SCH BD		YES	0.000219063	0.000273828	45.0		20%	103.5	2.45	1.96	0.49	64.5	1.53	1.22	0.31	**3.97**	**3.18**	**0.79**
LAFOURCHE PH COUNCIL SO CENTRAL P&D	PARISH PUMP CANAL - 40 ARPENT CANAL	NO	0.004381253	0.005476566	15.0		20%	34.5	16.32	13.06	3.26	43.0	20.35	16.28	4.07	**36.67**	**29.34**	**7.33**
PELTIER DEVELOPMENT CO LLC		NO	0.002190626	0.002738283	30.0		20%	69.0	16.32	13.06	3.26	64.5	15.26	12.21	3.05	**31.58**	**25.27**	**6.32**
BELLSOUTH	GRAND BAYOU	NO	2.19063E-05	2.73828E-05	45.0		20%	103.5	0.24	0.20	0.05	64.5	0.15	0.12	0.03	**0.40**	**0.32**	**0.08**
THIBODAUX LUMBER & CONCRETE CO	40 ARPENT CANAL	NO	0	0	45.0		20%	103.5	0.00	0.00	0.00	64.5	0.00	0.00	0.00	**0.00**	**0.00**	**0.00**
THOROUGHBRED PARK SVC CORP	40 ARPENT CANAL-B LAFOURCHE	NO	0.002190626	0.002738283	30.0		20%	69.0	16.32	13.06	3.26	64.5	15.26	12.21	3.05	**31.58**	**25.27**	**6.32**
THOROUGHBRED PARK SERVICE CORP	40 ARPENT CANAL-B LAFOURCHE	NO	0.001095313	0.001369142	30.0		20%	69.0	8.16	6.53	1.63	64.5	7.63	6.10	1.53	**15.79**	**12.63**	**3.16**
SUB-TOTAL Loads									**77.38**	**61.90**	**15.48**		**76.20**	**60.96**	**15.24**	**153.58**	**122.86**	**30.72**

(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\BEOUF PDF\TMDL LOAD CALC FOR 020102-IMPROVED.XLS

Calibration Model Non-Point Load Equivalent Calculations:

Modeled stream or water body:	Subsegment 020103

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 3: Lake Boeuf	3.80	1748.00	8900	3150	1.340	0.474	0.20	**2.01**

FILE: R:\PROJECTS\3110-051\BEOUF PDF\TMDL LOAD CALC FOR 020103-IMPROVED.XLS

Winter TMDL Summary:

Subsegment 020103

Calculation of the TMDL - Kilograms per day			
Load description	WLA (kg/day)	LA (kg/day)	MOS Load (kg/day)
Point Source loads	0		0
Headwater / Tributatary loads		0	0
Benthic loads		13,362	0
Incremental Loads		0	0
SUB-TOTAL	**0**	**13,362**	**0**
TMDL = WLA + LA + MOS		***13,362 kg/day***	

Calculation of the TMDL - Pounds per day			
Load description	WLA (lbs/day) (1)	LA (lbs/day) (1)	MOS Load (lbs/day) (1)
Point Source loads	0		0
Headwater / Tributatary loads		0	0
Benthic loads		29,463	0
Incremental Loads		0	0
SUB-TOTAL	**0**	**29,463**	**0**
TMDL = WLA + LA + MOS		***29,463 lbs/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	0		0
Natural Nonpoint Loads		13,360	
Manmade Nonpoint Loads		2	0
SUB-TOTAL	**0**	**13,362**	**0**
TMDL = WLA + LA + MOS		***13,362 kg/day***	

Calculation of the TMDL - Pounds per day			
Load description	WLA (lbs/day)	LA (lbs/day)	MOS Load (lbs/day)
Point Source loads	0		0
Natural Nonpoint Loads		29,459	
Manmade Nonpoint Loads		5	0
SUB-TOTAL	**0**	**29,464**	**0**
TMDL = WLA + LA + MOS		***29,464 lbs/day***	

FILE: R:\PROJECTS\3110-051\BEOUF PDF\TMDL LOAD CALC FOR 020103-IMPROVED.XLS

Winter Projection, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body:	Subsegment 020103

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 3: Lake Boeuf	1.340	0.474	0.20	2.014	3.80	2.00	0%	2.00	1748.00	20.88	98.0%	2.00	2.00	1.331	0.471	0.20	8839	3128	1395	13362.32	0	0	0	0	0	0
Sub-Total												2.00					8839	3128	1395	**13362**	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\BEOUF PDF\TMDL LOAD CALC FOR 020103-IMPROVED.XLS

Winter Projection, Non-Point Benthic Load Input and TMDL Calculations:

Modeled stream or water body:	Subsegment 020103

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 3: Lake Boeuf	1.340	0.474	0.20	2.014	3.80	2.00	0%	2.00	1748.00	20.88	98.0%	2.00	0.00	0.000	0.000	0.00	2	1	0	2.36	8838	3128	1394	13359.97
Sub-Total												2.00					2	1	0	**2**	8838	3128	1394	**13360**

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\BEOUF PDF\TMDL LOAD CALC FOR 020103-IMPROVED.XLS

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

Subsegment 020103

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**
SUB-TOTAL TMDL LOADING				**0**	**0**				**0**	**0**		**0**	**0**	**0**	**0**			**0**	**0**

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\BEOUF PDF\TMDL LOAD CALC FOR 020103-IMPROVED.XLS

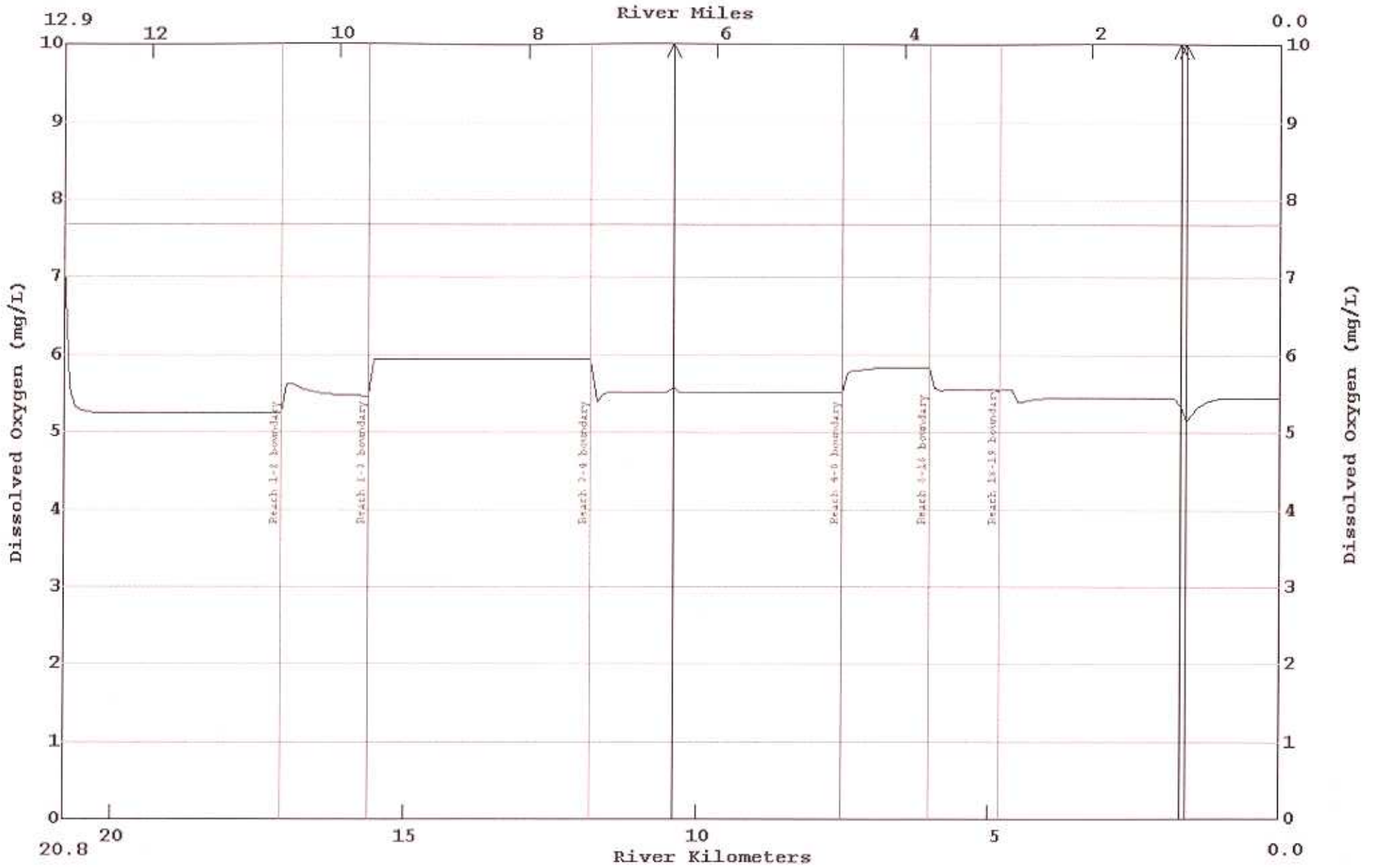
EXPLICIT MARGINS:

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

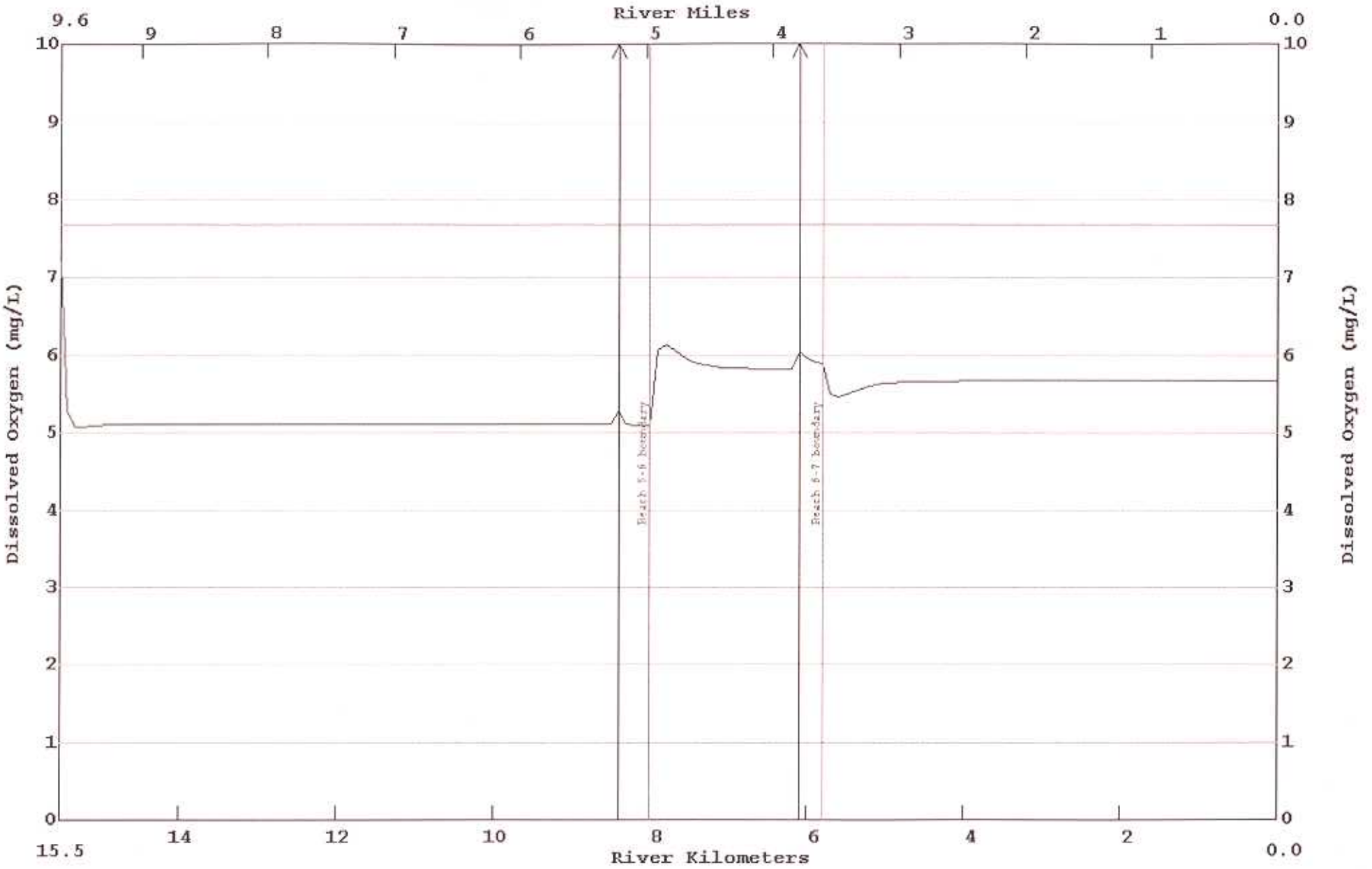
APPENDIX Q

Model Output for Projection Runs

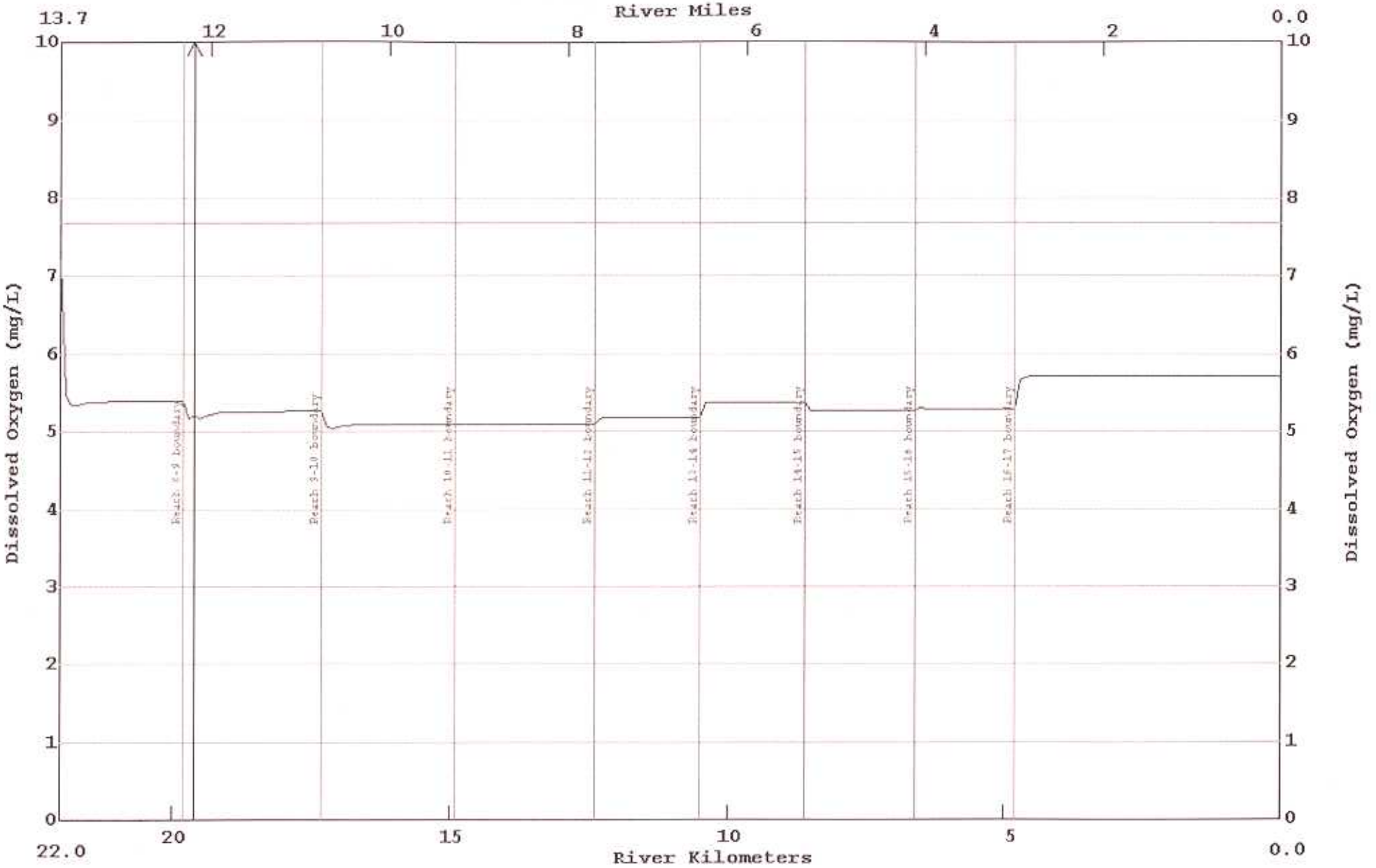
LA-QUAL Version 6.02 Run at 10:46 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\proj\summer\bf_sum.txt
Summer Projection Meeting DO Standard of 5 mg/L min= 5.14 max= 7.21
Main Stem



LA-QUAL Version 6.02 Run at 10:46 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\proj\summer\bf_sum.txt
Summer Projection Meeting DO Standard of 5 mg/L min= 5.07 max= 7.21
Halpin Canal



LA-QUAL Version 6.02 Run at 10:46 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\proj\summer\bf_sum.txt
Summer Projection Meeting DO Standard of 5 mg/L min= 5.04 max= 7.21
Grand Bayou



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

Input file is R:\projects\3110-051\la-qual\boeuf\proj\summer\bf_sum.txt
Output produced at 10:46 on 03/04/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
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            =      2000.00000
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	TC	Theriot Canal	20.80	TO	17.10	0.1000	3.70	37	1	37
REACH ID	2	TC	Theriot Canal	17.10	TO	15.60	0.1000	1.50	15	38	52
REACH ID	3	LB	Lake Boeuf	15.60	TO	11.80	0.1000	3.80	38	53	90
REACH ID	4	BB	Bayou Boeuf	11.80	TO	7.50	0.1000	4.30	43	91	133
REACH ID	5	HC	Halpin Canal	15.50	TO	8.00	0.1000	7.50	75	134	208
REACH ID	6	HC	Halpin Canal	8.00	TO	5.80	0.1000	2.20	22	209	230
REACH ID	7	HC	Halpin Canal	5.80	TO	0.00	0.1000	5.80	58	231	288
REACH ID	8	BB	Bayou Boeuf	7.50	TO	6.00	0.1000	1.50	15	289	303
REACH ID	9	GB	Grand Bayou	22.00	TO	19.80	0.1000	2.20	22	304	325
REACH ID	10	GB	Grand Bayou	19.80	TO	17.30	0.1000	2.50	25	326	350
REACH ID	11	GB	Grand Bayou	17.30	TO	14.90	0.1000	2.40	24	351	374
REACH ID	12	GB	Grand Bayou	14.90	TO	12.40	0.1000	2.50	25	375	399
REACH ID	13	GB	Grand Bayou	12.40	TO	10.50	0.1000	1.90	19	400	418
REACH ID	14	GB	Grand Bayou	10.50	TO	8.60	0.1000	1.90	19	419	437
REACH ID	15	GB	Grand Bayou	8.60	TO	6.60	0.1000	2.00	20	438	457
REACH ID	16	GB	Grand Bayou	6.60	TO	4.80	0.1000	1.80	18	458	475
REACH ID	17	GB	Grand Bayou	4.80	TO	0.00	0.1000	4.80	48	476	523
REACH ID	18	BB	Bayou Beouf	6.00	TO	4.60	0.1000	1.40	14	524	537
REACH ID	19	BB	Bayou Beouf	4.60	TO	0.00	0.1000	4.60	46	538	583

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	TC	0.000	0.000	20.900	0.000	0.000	0.560	0.00000	0.000
HYDR-1	2	TC	0.000	0.000	14.000	0.000	0.000	0.670	0.00000	0.000
HYDR-1	3	LB	0.000	0.000	1748.000	0.000	0.000	1.220	0.00000	0.000
HYDR-1	4	BB	0.000	0.000	47.850	0.000	0.000	1.325	0.00000	0.000
HYDR-1	5	HC	0.000	0.000	23.200	0.000	0.000	0.760	0.00000	0.000
HYDR-1	6	HC	0.000	0.000	23.800	0.000	0.000	1.050	0.00000	0.000
HYDR-1	7	HC	0.000	0.000	24.400	0.000	0.000	1.340	0.00000	0.000
HYDR-1	8	BB	0.000	0.000	41.500	0.000	0.000	1.710	0.00000	0.000
HYDR-1	9	GB	0.000	0.000	19.500	0.000	0.000	0.996	0.00000	0.000
HYDR-1	10	GB	0.000	0.000	32.500	0.000	0.000	1.515	0.00000	0.000
HYDR-1	11	GB	0.000	0.000	29.260	0.000	0.000	1.120	0.00000	0.000
HYDR-1	12	GB	0.000	0.000	22.250	0.000	0.000	1.235	0.00000	0.000
HYDR-1	13	GB	0.000	0.000	28.100	0.000	0.000	1.400	0.00000	0.000
HYDR-1	14	GB	0.000	0.000	36.700	0.000	0.000	1.585	0.00000	0.000
HYDR-1	15	GB	0.000	0.000	32.920	0.000	0.000	1.645	0.00000	0.000
HYDR-1	16	GB	0.000	0.000	35.350	0.000	0.000	1.520	0.00000	0.000
HYDR-1	17	GB	0.000	0.000	34.420	0.000	0.000	2.040	0.00000	0.000
HYDR-1	18	BB	0.000	0.000	69.030	0.000	0.000	1.850	0.00000	0.000
HYDR-1	19	BB	0.000	0.000	62.800	0.000	0.000	2.010	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"

ENDATA10

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

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	TC	29.00	0.12	5.70	0.00	0.00	0.00	0.00	0.00
INITIAL	2	TC	29.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00
INITIAL	3	LB	29.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00
INITIAL	4	BB	29.00	0.09	3.10	0.00	0.00	0.00	0.00	0.00
INITIAL	5	HC	29.00	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	6	HC	29.00	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	7	HC	29.00	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	8	BB	29.00	0.11	3.10	0.00	0.00	0.00	0.00	0.00
INITIAL	9	GB	29.00	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	10	GB	29.00	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	11	GB	29.00	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	12	GB	29.00	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	13	GB	29.00	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	14	GB	29.00	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	15	GB	29.00	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	16	GB	29.00	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	17	GB	29.00	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	18	BB	29.00	0.10	3.00	0.00	0.00	0.00	0.00	0.00
INITIAL	19	BB	29.00	0.10	3.00	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	TC	15 LOUISIANA	0.000	0.000	0.000	0.880	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	TC	15 LOUISIANA	0.000	0.000	0.000	0.590	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	LB	15 LOUISIANA	0.000	0.000	0.000	0.130	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	BB	15 LOUISIANA	0.000	0.000	0.000	0.570	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	HC	15 LOUISIANA	0.000	0.000	0.000	1.000	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	HC	15 LOUISIANA	0.000	0.000	0.000	0.270	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	HC	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	BB	15 LOUISIANA	0.000	0.000	0.000	0.250	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	GB	15 LOUISIANA	0.000	0.000	0.000	0.710	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	GB	15 LOUISIANA	0.000	0.000	0.000	0.860	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	11	GB	15 LOUISIANA	0.000	0.000	0.000	1.020	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	GB	15 LOUISIANA	0.000	0.000	0.000	1.030	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	GB	15 LOUISIANA	0.000	0.000	0.000	0.940	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	GB	15 LOUISIANA	0.000	0.000	0.000	0.730	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	15	GB	15 LOUISIANA	0.000	0.000	0.000	0.840	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	16	GB	15 LOUISIANA	0.000	0.000	0.000	0.810	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	17	GB	15 LOUISIANA	0.000	0.000	0.000	0.400	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	18	BB	15 LOUISIANA	0.000	0.000	0.000	0.560	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	19	BB	15 LOUISIANA	0.000	0.000	0.000	0.650	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ENDATA12

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

CARD TYPE      REACH  ID       ORG-N     ORG-N   ORGN CONV       NH3       NH3      PHOS     DENIT
                                DECA      SETT  TO NH3 SRCE     DECA      SRCE      SRCE      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   TC       0.000     0.100     0.000     0.000
COEF-4           2   TC       0.000     0.100     0.000     0.000
COEF-4           3   LB       0.000     0.100     0.000     0.000
COEF-4           4   BB       0.000     0.100     0.000     0.000
COEF-4           5   HC       0.000     0.100     0.000     0.000
COEF-4           6   HC       0.000     0.100     0.000     0.000
COEF-4           7   HC       0.000     0.100     0.000     0.000
COEF-4           8   BB       0.000     0.100     0.000     0.000
COEF-4           9   GB       0.000     0.360     0.000     0.000
COEF-4          10   GB       0.000     0.360     0.000     0.000
COEF-4          11   GB       0.000     0.360     0.000     0.000
COEF-4          12   GB       0.000     0.360     0.000     0.000
COEF-4          13   GB       0.000     0.360     0.000     0.000
COEF-4          14   GB       0.000     0.360     0.000     0.000
COEF-4          15   GB       0.000     0.360     0.000     0.000
COEF-4          16   GB       0.000     0.360     0.000     0.000
COEF-4          17   GB       0.000     0.360     0.000     0.000
COEF-4          18   BB       0.000     0.100     0.000     0.000
COEF-4          19   BB       0.000     0.100     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
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$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

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	TC	21.00	0.00	0.00	8.00	0.00	0.00
NONPOINT	2	TC	11.00	0.00	0.00	4.00	0.00	0.00
NONPOINT	3	LB	5568.00	0.00	0.00	1971.00	0.00	0.00
NONPOINT	4	BB	116.00	0.00	0.00	27.00	0.00	0.00
NONPOINT	5	HC	35.00	0.00	0.00	11.00	0.00	0.00
NONPOINT	6	HC	46.00	0.00	0.00	6.00	0.00	0.00
NONPOINT	7	HC	98.00	0.00	0.00	20.00	0.00	0.00
NONPOINT	8	BB	38.00	0.00	0.00	25.00	0.00	0.00
NONPOINT	9	GB	9.00	0.00	0.00	15.00	0.00	0.00
NONPOINT	10	GB	12.00	0.00	0.00	20.00	0.00	0.00
NONPOINT	11	GB	0.00	0.00	0.00	17.00	0.00	0.00
NONPOINT	12	GB	0.00	0.00	0.00	13.00	0.00	0.00
NONPOINT	13	GB	0.00	0.00	0.00	17.00	0.00	0.00
NONPOINT	14	GB	0.00	0.00	0.00	37.00	0.00	0.00
NONPOINT	15	GB	0.00	0.00	0.00	28.00	0.00	0.00
NONPOINT	16	GB	0.00	0.00	0.00	29.00	0.00	0.00
NONPOINT	17	GB	0.00	0.00	0.00	141.00	0.00	0.00
NONPOINT	18	BB	56.00	0.00	0.00	11.00	0.00	0.00
NONPOINT	19	BB	129.00	0.00	0.00	48.00	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	Theriot Canal	0	0.00300	0.106	0.00	0.00	17.500	288.400
HDWTR-1	134	Halpin Canal	0	0.00300	0.106	0.00	0.00	29.100	245.200
HDWTR-1	304	Grand Bayou	0	0.00300	0.106	0.00	0.00	12.100	143.000

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	Theriot Canal	7.21	3.77	0.00	0.00	0.00	0.00
HDWTR-2	134	Halpin Canal	7.21	4.15	0.00	0.00	0.00	0.00
HDWTR-2	304	Grand Bayou	7.21	4.37	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	Theriot Canal	0.00	0.00	0.00	0.60
HDWTR-3	134	Halpin Canal	0.00	0.00	0.00	0.74
HWDTR-3	304	Grand Bayou	0.00	0.00	0.00	1.30

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME
JUNCTION	289	133	7.50	Halpin Canal
JUNCTION	524	303	6.00	Grand Bayou

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	104	10.50	Bowie Canal	0.00300	0.10593	0.068	0.00	0.00	36.600	199.200
WSTLD-1	204	8.50	Pitre Lening	0.00300	0.10593	0.068	0.00	0.00	24.200	201.400
WSTLD-1	227	6.20	Unnamed	0.00300	0.10593	0.068	0.00	0.00	24.200	201.400
WSTLD-1	327	19.70	Bayou Onion	0.00300	0.10593	0.068	0.00	0.00	19.400	207.700
WSTLD-1	566	1.80	LA DOTD	0.00011	0.00388	0.003	0.00	0.00	0.000	0.000
WSTLD-1	567	1.70	LaFourche Sch Bld	0.00022	0.00777	0.005	0.00	0.00	0.000	0.000

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	104	Bowie Canal	7.21	4.82	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	204	Pitre Lening	7.21	4.11	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	227	Unnamed	7.21	4.11	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	327	Bayou Onion	7.21	4.37	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	566	LA DOTD	2.00	103.50	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	567	LaFourche Sch Bld	2.00	103.50	0.00	0.00	0.00	0.00	0.00	0.00

ENDATA25

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

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

WSTLD-3         104     Bowie Canal                 0.00      0.00      0.00      0.85
WSTLD-3         204     Pitre Lening                0.00      0.00      0.00      0.85
WSTLD-3         227     Unnamed                     0.00      0.00      0.00      0.85
WSTLD-3         327     Bayou Onion                 0.00      0.00      0.00      1.30
WSTLD-3         566     LA DOTD                     0.00      0.00      0.00     64.50
WSTLD-3         567     LaFourche Sch Bld           0.00      0.00      0.00     64.50
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

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  2  3  4  8 18 19
NUMBER OF REACHES IN PLOT 2 =   3
PLOT RCH  5  6  7
NUMBER OF REACHES IN PLOT 3 =   9
PLOT RCH  9 10 11 12 13 14 15 16 17
ENDATA30

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


OVERLAY 1 MS_proj.ovl                       Main Stem
OVERLAY 2 HAL_proj.ovl                      Halpin Canal
OVERLAY 3 GB_proj.ovl                       Grand Bayou
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
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.....OXYGEN DEPENDENT RATES CONVERGENT IN  28 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 Theriot Canal

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	0.00	0.00	7.21	3.77	0.00	0.00	0.00	0.00							
20.70	0.00300	29.00	0.11	5.57	4.03	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
20.60	0.00300	29.00	0.11	5.33	4.21	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
20.50	0.00300	29.00	0.11	5.28	4.33	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
20.40	0.00300	29.00	0.11	5.27	4.41	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
20.30	0.00300	29.00	0.11	5.26	4.47	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
20.20	0.00300	29.00	0.11	5.25	4.50	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
20.10	0.00300	29.00	0.11	5.25	4.53	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
20.00	0.00300	29.00	0.11	5.25	4.55	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
19.90	0.00300	29.00	0.11	5.25	4.56	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
19.80	0.00300	29.00	0.11	5.25	4.57	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
19.70	0.00300	29.00	0.11	5.25	4.57	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
19.60	0.00300	29.00	0.11	5.25	4.57	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
19.50	0.00300	29.00	0.11	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
19.40	0.00300	29.00	0.11	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
19.30	0.00300	29.00	0.11	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
19.20	0.00300	29.00	0.11	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
19.10	0.00300	29.00	0.11	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
19.00	0.00300	29.00	0.11	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
18.90	0.00300	29.00	0.11	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
18.80	0.00300	29.00	0.11	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
18.70	0.00300	29.00	0.11	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
18.60	0.00300	29.00	0.11	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
18.50	0.00300	29.00	0.11	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
18.40	0.00300	29.00	0.11	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
18.30	0.00300	29.00	0.10	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
18.20	0.00300	29.00	0.10	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
18.10	0.00300	29.00	0.10	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
18.00	0.00300	29.00	0.10	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
17.90	0.00300	29.00	0.10	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
17.80	0.00300	29.00	0.10	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
17.70	0.00300	29.00	0.10	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
17.60	0.00300	29.00	0.10	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
17.50	0.00300	29.00	0.10	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
17.40	0.00300	29.00	0.10	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
17.30	0.00300	29.00	0.10	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
17.20	0.00300	29.00	0.10	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
17.10	0.00300	29.00	0.10	5.25	4.58	0.00	0.00	0.00	0.00	1.41	0.11	0.00	0.00	0.00	0.00	1.55
17.00	0.00300	29.00	0.10	5.62	5.36	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
16.90	0.00300	29.00	0.10	5.63	5.92	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
16.80	0.00300	29.00	0.10	5.59	6.33	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
16.70	0.00300	29.00	0.10	5.56	6.62	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
16.60	0.00300	29.00	0.10	5.53	6.84	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04

16.50	0.00300	29.00	0.10	5.51	6.99	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
16.40	0.00300	29.00	0.10	5.50	7.10	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
16.30	0.00300	29.00	0.10	5.49	7.18	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
16.20	0.00300	29.00	0.10	5.49	7.24	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
16.10	0.00300	29.00	0.10	5.48	7.28	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
16.00	0.00300	29.00	0.10	5.48	7.31	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
15.90	0.00300	29.00	0.10	5.48	7.33	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
15.80	0.00300	29.00	0.10	5.47	7.35	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
15.70	0.00300	29.00	0.10	5.47	7.36	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
15.60	0.00300	29.00	0.10	5.47	7.37	0.00	0.00	0.00	0.00	1.18	0.11	0.00	0.00	0.00	0.00	1.04
15.50	0.00300	29.00	0.10	5.95	6.51	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
15.40	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
15.30	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
15.20	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
15.10	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
15.00	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
14.90	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
14.80	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
14.70	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
14.60	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
14.50	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
14.40	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
14.30	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
14.20	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
14.10	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
14.00	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
13.90	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
13.80	0.00300	29.00	0.10	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
13.70	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
13.60	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
13.50	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
13.40	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
13.30	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
13.20	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
13.10	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
13.00	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
12.90	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
12.80	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
12.70	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
12.60	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
12.50	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
12.40	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
12.30	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
12.20	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
12.10	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
12.00	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
11.90	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
11.80	0.00300	29.00	0.09	5.95	6.49	0.00	0.00	0.00	0.00	0.64	0.11	0.00	0.00	0.00	0.00	0.23
11.70	0.00300	29.00	0.09	5.40	4.71	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
11.60	0.00300	29.00	0.09	5.48	4.21	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
11.50	0.00300	29.00	0.09	5.51	4.07	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
11.40	0.00300	29.00	0.09	5.52	4.04	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
11.30	0.00300	29.00	0.09	5.52	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
11.20	0.00300	29.00	0.09	5.52	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
11.10	0.00300	29.00	0.09	5.52	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
11.00	0.00300	29.00	0.09	5.52	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00

10.90	0.00300	29.00	0.09	5.52	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
10.80	0.00300	29.00	0.09	5.52	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
10.70	0.00300	29.00	0.10	5.52	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
10.60	0.00300	29.00	0.10	5.52	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
10.50	0.00300	29.00	0.10	5.52	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
10.40	0.00600	29.00	0.10	5.59	4.19	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
10.30	0.00600	29.00	0.10	5.52	4.10	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
10.20	0.00600	29.00	0.10	5.52	4.05	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
10.10	0.00600	29.00	0.10	5.52	4.03	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
10.00	0.00600	29.00	0.10	5.52	4.03	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
9.90	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
9.80	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
9.70	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
9.60	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
9.50	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
9.40	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
9.30	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
9.20	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
9.10	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
9.00	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
8.90	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
8.80	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
8.70	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
8.60	0.00600	29.00	0.10	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
8.50	0.00600	29.00	0.11	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
8.40	0.00600	29.00	0.11	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
8.30	0.00600	29.00	0.11	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
8.20	0.00600	29.00	0.11	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
8.10	0.00600	29.00	0.11	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
8.00	0.00600	29.00	0.11	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
7.90	0.00600	29.00	0.11	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
7.80	0.00600	29.00	0.11	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
7.70	0.00600	29.00	0.11	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
7.60	0.00600	29.00	0.11	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
7.50	0.00600	29.00	0.11	5.53	4.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	1.00
7.40	0.01500	29.00	0.11	5.76	4.11	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
7.30	0.01500	29.00	0.11	5.79	3.84	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
7.20	0.01500	29.00	0.11	5.81	3.67	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
7.10	0.01500	29.00	0.11	5.82	3.56	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
7.00	0.01500	29.00	0.11	5.82	3.49	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
6.90	0.01500	29.00	0.11	5.83	3.45	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
6.80	0.01500	29.00	0.11	5.83	3.42	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
6.70	0.01500	29.00	0.10	5.84	3.40	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
6.60	0.01500	29.00	0.10	5.84	3.39	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
6.50	0.01500	29.00	0.10	5.84	3.39	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
6.40	0.01500	29.00	0.10	5.84	3.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
6.30	0.01500	29.00	0.10	5.84	3.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
6.20	0.01500	29.00	0.10	5.84	3.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
6.10	0.01500	29.00	0.10	5.84	3.38	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
6.00	0.01500	29.00	0.10	5.84	3.37	0.00	0.00	0.00	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.44
5.90	0.02100	29.00	0.10	5.57	2.64	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99
5.80	0.02100	29.00	0.10	5.54	2.78	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99
5.70	0.02100	29.00	0.10	5.55	2.86	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99
5.60	0.02100	29.00	0.10	5.55	2.90	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99
5.50	0.02100	29.00	0.10	5.56	2.93	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99
5.40	0.02100	29.00	0.10	5.56	2.94	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99

5.30	0.02100	29.00	0.10	5.56	2.95	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99
5.20	0.02100	29.00	0.10	5.55	2.95	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99
5.10	0.02100	29.00	0.10	5.55	2.96	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99
5.00	0.02100	29.00	0.10	5.55	2.96	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99
4.90	0.02100	29.00	0.10	5.55	2.96	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99
4.80	0.02100	29.00	0.10	5.55	2.96	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99
4.70	0.02100	29.00	0.10	5.55	2.96	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99
4.60	0.02100	29.00	0.10	5.55	2.96	0.00	0.00	0.00	0.00	0.43	0.11	0.00	0.00	0.00	0.00	0.99
4.50	0.02100	29.00	0.10	5.40	2.59	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
4.40	0.02100	29.00	0.10	5.39	2.38	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
4.30	0.02100	29.00	0.10	5.41	2.26	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
4.20	0.02100	29.00	0.10	5.42	2.19	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
4.10	0.02100	29.00	0.10	5.44	2.15	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
4.00	0.02100	29.00	0.10	5.44	2.13	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
3.90	0.02100	29.00	0.10	5.45	2.12	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
3.80	0.02100	29.00	0.10	5.45	2.11	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
3.70	0.02100	29.00	0.10	5.45	2.11	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
3.60	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
3.50	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
3.40	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
3.30	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
3.20	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
3.10	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
3.00	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
2.90	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
2.80	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
2.70	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
2.60	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
2.50	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
2.40	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
2.30	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
2.20	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
2.10	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
2.00	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
1.90	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
1.80	0.02100	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
1.70	0.02111	29.00	0.10	5.34	2.40	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
1.60	0.02133	29.00	0.10	5.14	2.88	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
1.50	0.02133	29.00	0.10	5.23	2.55	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
1.40	0.02133	29.00	0.10	5.32	2.36	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
1.30	0.02133	29.00	0.10	5.38	2.25	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
1.20	0.02133	29.00	0.10	5.41	2.19	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
1.10	0.02133	29.00	0.10	5.43	2.15	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
1.00	0.02133	29.00	0.10	5.44	2.13	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
0.90	0.02133	29.00	0.10	5.45	2.12	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
0.80	0.02133	29.00	0.10	5.45	2.11	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
0.70	0.02133	29.00	0.10	5.45	2.11	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
0.60	0.02133	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
0.50	0.02133	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
0.40	0.02133	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
0.30	0.02133	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
0.20	0.02133	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
0.10	0.02133	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15
0.00	0.02133	29.00	0.10	5.45	2.10	0.00	0.00	0.00	0.00	0.39	0.11	0.00	0.00	0.00	0.00	1.15

CONDENSED CAPSULE SUMMARY FOR Halpin Canal

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	0.00	0.00	7.21	4.15	0.00	0.00	0.00	0.00							
15.40	0.00300	29.00	0.12	5.27	3.46	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
15.30	0.00300	29.00	0.12	5.07	3.06	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
15.20	0.00300	29.00	0.12	5.08	2.83	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
15.10	0.00300	29.00	0.12	5.09	2.69	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
15.00	0.00300	29.00	0.12	5.10	2.61	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
14.90	0.00300	29.00	0.12	5.11	2.56	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
14.80	0.00300	29.00	0.12	5.11	2.54	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
14.70	0.00300	29.00	0.12	5.11	2.52	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
14.60	0.00300	29.00	0.12	5.11	2.51	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
14.50	0.00300	29.00	0.12	5.11	2.51	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
14.40	0.00300	29.00	0.12	5.11	2.51	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
14.30	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
14.20	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
14.10	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
14.00	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
13.90	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
13.80	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
13.70	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
13.60	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
13.50	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
13.40	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
13.30	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
13.20	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
13.10	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
13.00	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
12.90	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
12.80	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
12.70	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
12.60	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
12.50	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
12.40	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
12.30	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
12.20	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
12.10	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
12.00	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
11.90	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
11.80	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
11.70	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
11.60	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
11.50	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
11.40	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
11.30	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
11.20	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
11.10	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
11.00	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
10.90	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
10.80	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
10.70	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
10.60	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76

10.50	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
10.40	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
10.30	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
10.20	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
10.10	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
10.00	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
9.90	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
9.80	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
9.70	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
9.60	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
9.50	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
9.40	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
9.30	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
9.20	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
9.10	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
9.00	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
8.90	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
8.80	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
8.70	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
8.60	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
8.50	0.00300	29.00	0.12	5.11	2.50	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
8.40	0.00600	29.00	0.12	5.29	3.09	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
8.30	0.00600	29.00	0.12	5.11	2.94	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
8.20	0.00600	29.00	0.12	5.09	2.82	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
8.10	0.00600	29.00	0.12	5.09	2.74	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
8.00	0.00600	29.00	0.12	5.10	2.67	0.00	0.00	0.00	0.00	1.04	0.11	0.00	0.00	0.00	0.00	1.76
7.90	0.00600	29.00	0.12	6.06	4.44	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
7.80	0.00600	29.00	0.12	6.14	5.61	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
7.70	0.00600	29.00	0.12	6.06	6.39	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
7.60	0.00600	29.00	0.12	5.99	6.90	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
7.50	0.00600	29.00	0.12	5.93	7.24	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
7.40	0.00600	29.00	0.12	5.90	7.47	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
7.30	0.00600	29.00	0.12	5.87	7.61	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
7.20	0.00600	29.00	0.12	5.86	7.71	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
7.10	0.00600	29.00	0.12	5.85	7.78	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
7.00	0.00600	29.00	0.12	5.84	7.82	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
6.90	0.00600	29.00	0.12	5.83	7.85	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
6.80	0.00600	29.00	0.12	5.83	7.87	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
6.70	0.00600	29.00	0.12	5.83	7.88	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
6.60	0.00600	29.00	0.12	5.83	7.89	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
6.50	0.00600	29.00	0.12	5.83	7.90	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
6.40	0.00600	29.00	0.12	5.82	7.90	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
6.30	0.00600	29.00	0.12	5.82	7.90	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
6.20	0.00600	29.00	0.12	5.82	7.90	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
6.10	0.00900	29.00	0.12	6.05	6.96	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
6.00	0.00900	29.00	0.12	5.96	7.20	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
5.90	0.00900	29.00	0.12	5.91	7.38	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
5.80	0.00900	29.00	0.12	5.89	7.51	0.00	0.00	0.00	0.00	0.75	0.11	0.00	0.00	0.00	0.00	0.48
5.70	0.00900	29.00	0.12	5.50	6.70	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
5.60	0.00900	29.00	0.12	5.46	6.14	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
5.50	0.00900	29.00	0.12	5.50	5.75	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
5.40	0.00900	29.00	0.12	5.54	5.49	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
5.30	0.00900	29.00	0.12	5.58	5.30	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
5.20	0.00900	29.00	0.12	5.61	5.17	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
5.10	0.00900	29.00	0.12	5.63	5.08	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
5.00	0.00900	29.00	0.12	5.64	5.02	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76

4.90	0.00900	29.00	0.12	5.65	4.98	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
4.80	0.00900	29.00	0.12	5.66	4.95	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
4.70	0.00900	29.00	0.12	5.66	4.93	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
4.60	0.00900	29.00	0.12	5.66	4.91	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
4.50	0.00900	29.00	0.12	5.67	4.90	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
4.40	0.00900	29.00	0.12	5.67	4.90	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
4.30	0.00900	29.00	0.12	5.67	4.89	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
4.20	0.00900	29.00	0.12	5.67	4.89	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
4.10	0.00900	29.00	0.12	5.67	4.89	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
4.00	0.00900	29.00	0.12	5.67	4.89	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
3.90	0.00900	29.00	0.12	5.67	4.89	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
3.80	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
3.70	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
3.60	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
3.50	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
3.40	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
3.30	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
3.20	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
3.10	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
3.00	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
2.90	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
2.80	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
2.70	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
2.60	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
2.50	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
2.40	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
2.30	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
2.20	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
2.10	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
2.00	0.00900	29.00	0.12	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
1.90	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
1.80	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
1.70	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
1.60	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
1.50	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
1.40	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
1.30	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
1.20	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
1.10	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
1.00	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
0.90	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
0.80	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
0.70	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
0.60	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
0.50	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
0.40	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
0.30	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
0.20	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
0.10	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76
0.00	0.00900	29.00	0.11	5.67	4.88	0.00	0.00	0.00	0.00	0.59	0.11	0.00	0.00	0.00	0.00	0.76

CONDENSED CAPSULE SUMMARY FOR Grand Bayou

DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORGN	NH3	CHLA	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD

km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.00300	0.00	0.00	7.21	4.37	0.00	0.00	0.00	0.00							
21.90	0.00300	29.00	0.08	5.48	3.80	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
21.80	0.00300	29.00	0.08	5.33	3.43	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
21.70	0.00300	29.00	0.08	5.34	3.20	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
21.60	0.00300	29.00	0.08	5.36	3.05	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
21.50	0.00300	29.00	0.08	5.37	2.95	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
21.40	0.00300	29.00	0.08	5.38	2.89	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
21.30	0.00300	29.00	0.08	5.38	2.85	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
21.20	0.00300	29.00	0.08	5.38	2.83	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
21.10	0.00300	29.00	0.08	5.39	2.81	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
21.00	0.00300	29.00	0.08	5.39	2.80	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
20.90	0.00300	29.00	0.08	5.39	2.80	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
20.80	0.00300	29.00	0.08	5.39	2.79	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
20.70	0.00300	29.00	0.08	5.39	2.79	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
20.60	0.00300	29.00	0.08	5.39	2.79	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
20.50	0.00300	29.00	0.08	5.39	2.79	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
20.40	0.00300	29.00	0.08	5.39	2.79	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
20.30	0.00300	29.00	0.08	5.39	2.79	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
20.20	0.00300	29.00	0.08	5.39	2.79	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
20.10	0.00300	29.00	0.08	5.39	2.79	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
20.00	0.00300	29.00	0.08	5.39	2.79	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
19.90	0.00300	29.00	0.08	5.39	2.79	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
19.80	0.00300	29.00	0.08	5.39	2.79	0.00	0.00	0.00	0.00	0.79	0.08	0.00	0.00	0.00	0.00	1.25
19.70	0.00300	29.00	0.08	5.16	1.90	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
19.60	0.00600	29.00	0.08	5.21	2.36	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
19.50	0.00600	29.00	0.08	5.17	1.92	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
19.40	0.00600	29.00	0.08	5.20	1.65	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
19.30	0.00600	29.00	0.08	5.22	1.50	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
19.20	0.00600	29.00	0.08	5.24	1.41	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
19.10	0.00600	29.00	0.08	5.25	1.36	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
19.00	0.00600	29.00	0.08	5.25	1.33	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
18.90	0.00600	29.00	0.08	5.26	1.31	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
18.80	0.00600	29.00	0.08	5.26	1.30	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
18.70	0.00600	29.00	0.08	5.26	1.30	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
18.60	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
18.50	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
18.40	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
18.30	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
18.20	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
18.10	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
18.00	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
17.90	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
17.80	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
17.70	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
17.60	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
17.50	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
17.40	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
17.30	0.00600	29.00	0.08	5.26	1.29	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.52
17.20	0.00600	29.00	0.08	5.06	0.87	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
17.10	0.00600	29.00	0.08	5.04	0.59	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
17.00	0.00600	29.00	0.08	5.05	0.40	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
16.90	0.00600	29.00	0.08	5.07	0.27	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
16.80	0.00600	29.00	0.08	5.08	0.18	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
16.70	0.00600	29.00	0.08	5.08	0.12	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80

16.60	0.00600	29.00	0.08	5.09	0.08	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
16.50	0.00600	29.00	0.08	5.09	0.06	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
16.40	0.00600	29.00	0.08	5.09	0.04	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
16.30	0.00600	29.00	0.08	5.10	0.03	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
16.20	0.00600	29.00	0.08	5.10	0.02	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
16.10	0.00600	29.00	0.08	5.10	0.01	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
16.00	0.00600	29.00	0.08	5.10	0.01	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
15.90	0.00600	29.00	0.08	5.10	0.01	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
15.80	0.00600	29.00	0.08	5.10	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
15.70	0.00600	29.00	0.08	5.10	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
15.60	0.00600	29.00	0.08	5.10	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
15.50	0.00600	29.00	0.08	5.10	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
15.40	0.00600	29.00	0.08	5.10	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
15.30	0.00600	29.00	0.08	5.10	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
15.20	0.00600	29.00	0.08	5.10	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
15.10	0.00600	29.00	0.08	5.10	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
15.00	0.00600	29.00	0.08	5.10	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
14.90	0.00600	29.00	0.08	5.10	0.00	0.00	0.00	0.00	0.00	0.70	0.08	0.00	0.00	0.00	0.00	1.80
14.80	0.00600	29.00	0.08	5.08	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
14.70	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
14.60	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
14.50	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
14.40	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
14.30	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
14.20	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
14.10	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
14.00	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
13.90	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
13.80	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
13.70	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
13.60	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
13.50	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
13.40	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
13.30	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
13.20	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
13.10	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
13.00	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
12.90	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
12.80	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
12.70	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
12.60	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
12.50	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
12.40	0.00600	29.00	0.08	5.09	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.00	0.00	0.00	1.82
12.30	0.00600	29.00	0.08	5.17	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
12.20	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
12.10	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
12.00	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
11.90	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
11.80	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
11.70	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
11.60	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
11.50	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
11.40	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
11.30	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
11.20	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
11.10	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66

11.00	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
10.90	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
10.80	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
10.70	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
10.60	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
10.50	0.00600	29.00	0.08	5.18	0.00	0.00	0.00	0.00	0.00	0.56	0.08	0.00	0.00	0.00	0.00	1.66
10.40	0.00600	29.00	0.08	5.37	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
10.30	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
10.20	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
10.10	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
10.00	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
9.90	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
9.80	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
9.70	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
9.60	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
9.50	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
9.40	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
9.30	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
9.20	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
9.10	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
9.00	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
8.90	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
8.80	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
8.70	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
8.60	0.00600	29.00	0.08	5.38	0.00	0.00	0.00	0.00	0.00	0.50	0.08	0.00	0.00	0.00	0.00	1.29
8.50	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
8.40	0.00600	29.00	0.08	5.26	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
8.30	0.00600	29.00	0.08	5.26	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
8.20	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
8.10	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
8.00	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
7.90	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
7.80	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
7.70	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
7.60	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
7.50	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
7.40	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
7.30	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
7.20	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
7.10	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
7.00	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
6.90	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
6.80	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
6.70	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
6.60	0.00600	29.00	0.08	5.27	0.00	0.00	0.00	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.00	1.48
6.50	0.00600	29.00	0.08	5.30	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
6.40	0.00600	29.00	0.08	5.30	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
6.30	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
6.20	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
6.10	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
6.00	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
5.90	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
5.80	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
5.70	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
5.60	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
5.50	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43

5.40	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
5.30	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
5.20	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
5.10	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
5.00	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
4.90	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
4.80	0.00600	29.00	0.08	5.29	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.00	1.43
4.70	0.00600	29.00	0.08	5.67	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
4.60	0.00600	29.00	0.08	5.70	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
4.50	0.00600	29.00	0.08	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
4.40	0.00600	29.00	0.08	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
4.30	0.00600	29.00	0.08	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
4.20	0.00600	29.00	0.08	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
4.10	0.00600	29.00	0.08	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
4.00	0.00600	29.00	0.08	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
3.90	0.00600	29.00	0.08	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
3.80	0.00600	29.00	0.08	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
3.70	0.00600	29.00	0.08	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
3.60	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
3.50	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
3.40	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
3.30	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
3.20	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
3.10	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
3.00	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
2.90	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
2.80	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
2.70	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
2.60	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
2.50	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
2.40	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
2.30	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
2.20	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
2.10	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
2.00	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
1.90	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
1.80	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
1.70	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
1.60	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
1.50	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
1.40	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
1.30	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
1.20	0.00600	29.00	0.09	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
1.10	0.00600	29.00	0.10	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
1.00	0.00600	29.00	0.10	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
0.90	0.00600	29.00	0.10	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
0.80	0.00600	29.00	0.10	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
0.70	0.00600	29.00	0.10	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
0.60	0.00600	29.00	0.10	5.71	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
0.50	0.00600	29.00	0.10	5.70	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
0.40	0.00600	29.00	0.10	5.70	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
0.30	0.00600	29.00	0.10	5.70	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
0.20	0.00600	29.00	0.10	5.70	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
0.10	0.00600	29.00	0.10	5.70	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71
0.00	0.00600	29.00	0.10	5.70	0.00	0.00	0.00	0.00	0.00	0.39	0.08	0.00	0.00	0.00	0.00	0.71

********** 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	0.00	0.00	17.50	288.40	7.21	3.77	0.00	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60

********** 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	20.80	20.70	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
2	20.70	20.60	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
3	20.60	20.50	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
4	20.50	20.40	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
5	20.40	20.30	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
6	20.30	20.20	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
7	20.20	20.10	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
8	20.10	20.00	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
9	20.00	19.90	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
10	19.90	19.80	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
11	19.80	19.70	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
12	19.70	19.60	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
13	19.60	19.50	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
14	19.50	19.40	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
15	19.40	19.30	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
16	19.30	19.20	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
17	19.20	19.10	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
18	19.10	19.00	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
19	19.00	18.90	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
20	18.90	18.80	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
21	18.80	18.70	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
22	18.70	18.60	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
23	18.60	18.50	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
24	18.50	18.40	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
25	18.40	18.30	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
26	18.30	18.20	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
27	18.20	18.10	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
28	18.10	18.00	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
29	18.00	17.90	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
30	17.90	17.80	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
31	17.80	17.70	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
32	17.70	17.60	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
33	17.60	17.50	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
34	17.50	17.40	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
35	17.40	17.30	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
36	17.30	17.20	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
37	17.20	17.10	0.00300	0.0	0.00026	4.52	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.000
TOT						167.07			43304.79	77330.00					
AVG					0.00026		0.56	20.90			11.70				
CUM						167.07									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	20.700	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
2	20.600	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
3	20.500	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
4	20.400	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
5	20.300	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
6	20.200	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
7	20.100	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
8	20.000	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
9	19.900	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
10	19.800	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
11	19.700	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
12	19.600	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
13	19.500	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
14	19.400	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
15	19.300	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
16	19.200	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
17	19.100	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
18	19.000	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
19	18.900	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
20	18.800	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
21	18.700	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
22	18.600	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
23	18.500	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
24	18.400	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
25	18.300	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
26	18.200	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
27	18.100	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
28	18.000	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
29	17.900	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
30	17.800	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
31	17.700	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
32	17.600	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
33	17.500	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
34	17.400	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
35	17.300	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
36	17.200	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
37	17.100	7.69	1.41	0.11	0.00	0.00	0.00	0.00	0.00	1.55	1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			1.19	0.07	0.00	0.00	0.00	0.00	0.00	0.88			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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	20.700	29.00	0.11	17.50	288.40	5.57	4.03	0.00	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.78
2	20.600	29.00	0.11	17.50	288.40	5.33	4.21	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
3	20.500	29.00	0.11	17.50	288.40	5.28	4.33	0.00	4.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.94
4	20.400	29.00	0.11	17.50	288.40	5.27	4.41	0.00	4.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.97
5	20.300	29.00	0.11	17.50	288.40	5.26	4.47	0.00	4.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
6	20.200	29.00	0.11	17.50	288.40	5.25	4.50	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
7	20.100	29.00	0.11	17.50	288.40	5.25	4.53	0.00	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
8	20.000	29.00	0.11	17.50	288.40	5.25	4.55	0.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
9	19.900	29.00	0.11	17.50	288.40	5.25	4.56	0.00	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
10	19.800	29.00	0.11	17.50	288.40	5.25	4.57	0.00	4.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
11	19.700	29.00	0.11	17.50	288.40	5.25	4.57	0.00	4.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
12	19.600	29.00	0.11	17.50	288.40	5.25	4.57	0.00	4.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
13	19.500	29.00	0.11	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
14	19.400	29.00	0.11	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
15	19.300	29.00	0.11	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
16	19.200	29.00	0.11	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
17	19.100	29.00	0.11	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
18	19.000	29.00	0.11	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
19	18.900	29.00	0.11	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
20	18.800	29.00	0.11	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
21	18.700	29.00	0.11	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
22	18.600	29.00	0.11	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
23	18.500	29.00	0.11	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
24	18.400	29.00	0.11	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
25	18.300	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
26	18.200	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
27	18.100	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
28	18.000	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
29	17.900	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
30	17.800	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
31	17.700	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
32	17.600	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.01
33	17.500	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.01
34	17.400	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.01
35	17.300	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.01
36	17.200	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.01
37	17.100	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.01

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
38	UPR RCH	0.00300	29.00	0.10	17.50	288.40	5.25	4.58	0.00	4.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01

********** 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
38	17.10	17.00	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
39	17.00	16.90	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
40	16.90	16.80	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
41	16.80	16.70	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
42	16.70	16.60	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
43	16.60	16.50	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
44	16.50	16.40	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
45	16.40	16.30	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
46	16.30	16.20	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
47	16.20	16.10	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
48	16.10	16.00	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
49	16.00	15.90	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
50	15.90	15.80	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
51	15.80	15.70	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
52	15.70	15.60	0.00300	0.0	0.00032	3.62	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.000
TOT						54.28			14070.00	21000.00					
AVG					0.00032		0.67	14.00			9.38				
CUM						221.35									

********** 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
38	17.000	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
39	16.900	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
40	16.800	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
41	16.700	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
42	16.600	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
43	16.500	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
44	16.400	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
45	16.300	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
46	16.200	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
47	16.100	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
48	16.000	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00

49	15.900	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
50	15.800	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
51	15.700	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
52	15.600	7.69	1.18	0.11	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			1.00	0.07	0.00	0.00	0.00	0.00	0.00	0.59			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
38	17.000	29.00	0.10	17.50	288.40	5.62	5.36	0.00	5.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.22
39	16.900	29.00	0.10	17.50	288.40	5.63	5.92	0.00	5.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35
40	16.800	29.00	0.10	17.50	288.40	5.59	6.33	0.00	6.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.43
41	16.700	29.00	0.10	17.50	288.40	5.56	6.62	0.00	6.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
42	16.600	29.00	0.10	17.50	288.40	5.53	6.84	0.00	6.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.51
43	16.500	29.00	0.10	17.50	288.40	5.51	6.99	0.00	6.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
44	16.400	29.00	0.10	17.50	288.40	5.50	7.10	0.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
45	16.300	29.00	0.10	17.50	288.40	5.49	7.18	0.00	7.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
46	16.200	29.00	0.10	17.50	288.40	5.49	7.24	0.00	7.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
47	16.100	29.00	0.10	17.50	288.40	5.48	7.28	0.00	7.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
48	16.000	29.00	0.10	17.50	288.40	5.48	7.31	0.00	7.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.55
49	15.900	29.00	0.10	17.50	288.40	5.48	7.33	0.00	7.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.55
50	15.800	29.00	0.10	17.50	288.40	5.47	7.35	0.00	7.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.55
51	15.700	29.00	0.10	17.50	288.40	5.47	7.36	0.00	7.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.55
52	15.600	29.00	0.10	17.50	288.40	5.47	7.37	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.55

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 3 Lake Boeuf 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
53	UPR RCH	0.00300	29.00	0.10	17.50	288.40	5.47	7.37	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55

********** 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
53	15.60	15.50	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
54	15.50	15.40	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
55	15.40	15.30	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
56	15.30	15.20	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
57	15.20	15.10	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
58	15.10	15.00	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
59	15.00	14.90	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
60	14.90	14.80	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
61	14.80	14.70	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
62	14.70	14.60	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
63	14.60	14.50	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
64	14.50	14.40	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
65	14.40	14.30	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
66	14.30	14.20	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
67	14.20	14.10	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
68	14.10	14.00	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
69	14.00	13.90	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
70	13.90	13.80	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
71	13.80	13.70	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
72	13.70	13.60	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
73	13.60	13.50	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
74	13.50	13.40	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
75	13.40	13.30	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
76	13.30	13.20	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
77	13.20	13.10	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
78	13.10	13.00	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
79	13.00	12.90	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
80	12.90	12.80	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
81	12.80	12.70	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
82	12.70	12.60	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
83	12.60	12.50	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
84	12.50	12.40	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
85	12.40	12.30	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
86	12.30	12.20	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
87	12.20	12.10	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
88	12.10	12.00	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
89	12.00	11.90	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
90	11.90	11.80	0.00300	0.0	0.00000	822.75	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
TOT						31264.37			8103728.00	6642400.00					
AVG					0.00000		1.22	1748.00			2132.56				
CUM						31485.72									

********** 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
53	15.500	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
54	15.400	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
55	15.300	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
56	15.200	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
57	15.100	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
58	15.000	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
59	14.900	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
60	14.800	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
61	14.700	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
62	14.600	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
63	14.500	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
64	14.400	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
65	14.300	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
66	14.200	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
67	14.100	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
68	14.000	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
69	13.900	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
70	13.800	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
71	13.700	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
72	13.600	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
73	13.500	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
74	13.400	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
75	13.300	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
76	13.200	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
77	13.100	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
78	13.000	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
79	12.900	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
80	12.800	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
81	12.700	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
82	12.600	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
83	12.500	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
84	12.400	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
85	12.300	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
86	12.200	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
87	12.100	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
88	12.000	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
89	11.900	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
90	11.800	7.69	0.64	0.11	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.54	0.07	0.00	0.00	0.00	0.00	0.00	0.13			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
53	15.500	29.00	0.10	17.50	288.40	5.95	6.51	0.00	6.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.33
54	15.400	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
55	15.300	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
56	15.200	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
57	15.100	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
58	15.000	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
59	14.900	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
60	14.800	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
61	14.700	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
62	14.600	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
63	14.500	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
64	14.400	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
65	14.300	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
66	14.200	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
67	14.100	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
68	14.000	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
69	13.900	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
70	13.800	29.00	0.10	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
71	13.700	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
72	13.600	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
73	13.500	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
74	13.400	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
75	13.300	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
76	13.200	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
77	13.100	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
78	13.000	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
79	12.900	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
80	12.800	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
81	12.700	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
82	12.600	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
83	12.500	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
84	12.400	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
85	12.300	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
86	12.200	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
87	12.100	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
88	12.000	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
89	11.900	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
90	11.800	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32

********** 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
91	UPR RCH	0.00300	29.00	0.09	17.50	288.40	5.95	6.49	0.00	6.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32
104	WSTLD	0.00300	0.00	0.00	36.60	199.20	7.21	4.82	0.00	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85

********** 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
91	11.80	11.70	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
92	11.70	11.60	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
93	11.60	11.50	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
94	11.50	11.40	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
95	11.40	11.30	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
96	11.30	11.20	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
97	11.20	11.10	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
98	11.10	11.00	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
99	11.00	10.90	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
100	10.90	10.80	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
101	10.80	10.70	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
102	10.70	10.60	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
103	10.60	10.50	0.00300	0.0	0.00005	24.46	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
104	10.50	10.40	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
105	10.40	10.30	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
106	10.30	10.20	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
107	10.20	10.10	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
108	10.10	10.00	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
109	10.00	9.90	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
110	9.90	9.80	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
111	9.80	9.70	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
112	9.70	9.60	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
113	9.60	9.50	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
114	9.50	9.40	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
115	9.40	9.30	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
116	9.30	9.20	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
117	9.20	9.10	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
118	9.10	9.00	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
119	9.00	8.90	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
120	8.90	8.80	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
121	8.80	8.70	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
122	8.70	8.60	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
123	8.60	8.50	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
124	8.50	8.40	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
125	8.40	8.30	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
126	8.30	8.20	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
127	8.20	8.10	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000

128	8.10	8.00	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
129	8.00	7.90	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
130	7.90	7.80	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
131	7.80	7.70	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
132	7.70	7.60	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
133	7.60	7.50	0.00600	50.0	0.00009	12.23	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
TOT						684.89			272625.38	205755.00					
AVG					0.00007		1.33	47.85			63.40				
CUM						32170.63									

********** 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
91	11.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
92	11.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
93	11.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
94	11.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
95	11.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
96	11.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
97	11.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
98	11.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
99	10.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
100	10.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
101	10.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
102	10.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
103	10.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
104	10.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
105	10.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
106	10.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
107	10.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
108	10.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
109	9.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
110	9.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
111	9.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
112	9.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
113	9.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
114	9.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
115	9.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
116	9.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
117	9.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
118	9.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
119	8.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
120	8.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
121	8.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
122	8.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
123	8.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
124	8.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
125	8.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
126	8.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
127	8.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
128	8.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00

129	7.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
130	7.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
131	7.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
132	7.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
133	7.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.57			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
91	11.700	29.00	0.09	17.50	288.40	5.40	4.71	0.00	4.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.68
92	11.600	29.00	0.09	17.50	288.40	5.48	4.21	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.56
93	11.500	29.00	0.09	17.50	288.40	5.51	4.07	0.00	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
94	11.400	29.00	0.09	17.50	288.40	5.52	4.04	0.00	4.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
95	11.300	29.00	0.09	17.50	288.40	5.52	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
96	11.200	29.00	0.09	17.50	288.40	5.52	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
97	11.100	29.00	0.09	17.50	288.40	5.52	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
98	11.000	29.00	0.09	17.50	288.40	5.52	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
99	10.900	29.00	0.09	17.50	288.40	5.52	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
100	10.800	29.00	0.09	17.50	288.40	5.52	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
101	10.700	29.00	0.10	17.50	288.40	5.52	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
102	10.600	29.00	0.10	17.50	288.40	5.52	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
103	10.500	29.00	0.10	17.50	288.40	5.52	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
104	10.400	29.00	0.10	27.05	243.80	5.59	4.19	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
105	10.300	29.00	0.10	27.05	243.80	5.52	4.10	0.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
106	10.200	29.00	0.10	27.05	243.80	5.52	4.05	0.00	4.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
107	10.100	29.00	0.10	27.05	243.80	5.52	4.03	0.00	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
108	10.000	29.00	0.10	27.05	243.80	5.52	4.03	0.00	4.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
109	9.900	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
110	9.800	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
111	9.700	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
112	9.600	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
113	9.500	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
114	9.400	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
115	9.300	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
116	9.200	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
117	9.100	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
118	9.000	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
119	8.900	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
120	8.800	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
121	8.700	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
122	8.600	29.00	0.10	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
123	8.500	29.00	0.11	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
124	8.400	29.00	0.11	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
125	8.300	29.00	0.11	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
126	8.200	29.00	0.11	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
127	8.100	29.00	0.11	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
128	8.000	29.00	0.11	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
129	7.900	29.00	0.11	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
130	7.800	29.00	0.11	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54

131	7.700	29.00	0.11	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
132	7.600	29.00	0.11	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54
133	7.500	29.00	0.11	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.54

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 8 Bayou Boeuf 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
289	UPR RCH	0.00600	29.00	0.11	27.05	243.80	5.53	4.02	0.00	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54
289	TRIB	0.00900	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57

********** 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
289	7.50	7.40	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
290	7.40	7.30	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
291	7.30	7.20	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
292	7.20	7.10	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
293	7.10	7.00	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
294	7.00	6.90	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
295	6.90	6.80	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
296	6.80	6.70	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
297	6.70	6.60	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
298	6.60	6.50	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
299	6.50	6.40	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
300	6.40	6.30	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
301	6.30	6.20	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
302	6.20	6.10	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
303	6.10	6.00	0.01500	60.0	0.00021	5.48	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.000
TOT						82.14			106447.51	62250.00					
AVG					0.00021		1.71	41.50			70.97				
CUM						32252.78									

********** 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
289	7.400	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
290	7.300	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
291	7.200	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
292	7.100	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
293	7.000	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00

294	6.900	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
295	6.800	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
296	6.700	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
297	6.600	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
298	6.500	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
299	6.400	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
300	6.300	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
301	6.200	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
302	6.100	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
303	6.000	7.69	0.46	0.11	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.39	0.07	0.00	0.00	0.00	0.00	0.00	0.25			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
289	7.400	29.00	0.11	26.32	227.12	5.76	4.11	0.00	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.92
290	7.300	29.00	0.11	26.32	227.12	5.79	3.84	0.00	3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.10
291	7.200	29.00	0.11	26.32	227.12	5.81	3.67	0.00	3.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19
292	7.100	29.00	0.11	26.32	227.12	5.82	3.56	0.00	3.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.23
293	7.000	29.00	0.11	26.32	227.12	5.82	3.49	0.00	3.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.26
294	6.900	29.00	0.11	26.32	227.12	5.83	3.45	0.00	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27
295	6.800	29.00	0.11	26.32	227.12	5.83	3.42	0.00	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27
296	6.700	29.00	0.10	26.32	227.12	5.84	3.40	0.00	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27
297	6.600	29.00	0.10	26.32	227.12	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.	1.28
298	6.500	29.00	0.10	26.32	227.12	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.	1.28
299	6.400	29.00	0.10	26.32	227.12	5.84	3.38	0.00	3.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
300	6.300	29.00	0.10	26.32	227.12	5.84	3.38	0.00	3.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
301	6.200	29.00	0.10	26.32	227.12	5.84	3.38	0.00	3.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
302	6.100	29.00	0.10	26.32	227.12	5.84	3.38	0.00	3.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
303	6.000	29.00	0.10	26.32	227.12	5.84	3.37	0.00	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28

********** 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
524	UPR RCH	0.01500	29.00	0.10	26.32	227.12	5.84	3.37	0.00	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28
524	TRIB	0.00600	29.00	0.10	15.75	175.35	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63

********** 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
524	6.00	5.90	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
525	5.90	5.80	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
526	5.80	5.70	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
527	5.70	5.60	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
528	5.60	5.50	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
529	5.50	5.40	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
530	5.40	5.30	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
531	5.30	5.20	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
532	5.20	5.10	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
533	5.10	5.00	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
534	5.00	4.90	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
535	4.90	4.80	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
536	4.80	4.70	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
537	4.70	4.60	0.02100	57.1	0.00016	7.04	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.000
TOT						98.54			178787.67	96642.00					
AVG					0.00016		1.85	69.03			127.71				
CUM						32351.32									

********** 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
524	5.900	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
525	5.800	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
526	5.700	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
527	5.600	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
528	5.500	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
529	5.400	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
530	5.300	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
531	5.200	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
532	5.100	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
533	5.000	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
534	4.900	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00

535	4.800	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
536	4.700	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
537	4.600	7.69	0.43	0.11	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.36	0.07	0.00	0.00	0.00	0.00	0.00	0.56			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
524	5.900	29.00	0.10	23.30	212.33	5.57	2.64	0.00	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.67
525	5.800	29.00	0.10	23.30	212.33	5.54	2.78	0.00	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.48
526	5.700	29.00	0.10	23.30	212.33	5.55	2.86	0.00	2.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.40
527	5.600	29.00	0.10	23.30	212.33	5.55	2.90	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.36
528	5.500	29.00	0.10	23.30	212.33	5.56	2.93	0.00	2.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.35
529	5.400	29.00	0.10	23.30	212.33	5.56	2.94	0.00	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
530	5.300	29.00	0.10	23.30	212.33	5.56	2.95	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
531	5.200	29.00	0.10	23.30	212.33	5.55	2.95	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
532	5.100	29.00	0.10	23.30	212.33	5.55	2.96	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
533	5.000	29.00	0.10	23.30	212.33	5.55	2.96	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
534	4.900	29.00	0.10	23.30	212.33	5.55	2.96	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
535	4.800	29.00	0.10	23.30	212.33	5.55	2.96	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
536	4.700	29.00	0.10	23.30	212.33	5.55	2.96	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
537	4.600	29.00	0.10	23.30	212.33	5.55	2.96	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 19 Bayou Beouf 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
538	UPR RCH	0.02100	29.00	0.10	23.30	212.33	5.55	2.96	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
566	WSTLD	0.00011	0.00	0.00	0.00	0.00	2.00	103.50	0.00	103.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.50
567	WSTLD	0.00022	0.00	0.00	0.00	0.00	2.00	103.50	0.00	103.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.50

********** 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
538	4.60	4.50	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
539	4.50	4.40	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
540	4.40	4.30	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
541	4.30	4.20	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
542	4.20	4.10	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
543	4.10	4.00	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
544	4.00	3.90	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
545	3.90	3.80	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
546	3.80	3.70	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
547	3.70	3.60	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
548	3.60	3.50	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
549	3.50	3.40	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
550	3.40	3.30	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
551	3.30	3.20	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
552	3.20	3.10	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
553	3.10	3.00	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
554	3.00	2.90	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
555	2.90	2.80	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
556	2.80	2.70	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
557	2.70	2.60	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
558	2.60	2.50	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
559	2.50	2.40	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
560	2.40	2.30	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
561	2.30	2.20	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
562	2.20	2.10	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
563	2.10	2.00	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
564	2.00	1.90	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
565	1.90	1.80	0.02100	57.1	0.00017	6.96	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
566	1.80	1.70	0.02111	57.4	0.00017	6.92	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
567	1.70	1.60	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
568	1.60	1.50	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
569	1.50	1.40	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
570	1.40	1.30	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
571	1.30	1.20	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
572	1.20	1.10	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
573	1.10	1.00	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
574	1.00	0.90	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
575	0.90	0.80	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
576	0.80	0.70	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
577	0.70	0.60	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
578	0.60	0.50	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
579	0.50	0.40	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
580	0.40	0.30	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
581	0.30	0.20	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
582	0.20	0.10	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
583	0.10	0.00	0.02133	57.8	0.00017	6.85	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.000
TOT						318.16			580649.06	288880.00					
AVG					0.00017		2.01	62.80			126.23				
CUM						32669.48									

********** 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
538	4.500	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
539	4.400	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
540	4.300	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
541	4.200	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
542	4.100	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
543	4.000	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
544	3.900	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
545	3.800	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
546	3.700	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
547	3.600	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
548	3.500	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
549	3.400	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
550	3.300	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
551	3.200	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
552	3.100	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
553	3.000	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
554	2.900	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
555	2.800	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
556	2.700	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
557	2.600	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
558	2.500	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
559	2.400	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
560	2.300	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
561	2.200	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
562	2.100	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
563	2.000	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
564	1.900	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
565	1.800	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
566	1.700	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
567	1.600	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
568	1.500	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
569	1.400	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
570	1.300	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
571	1.200	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
572	1.100	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
573	1.000	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
574	0.900	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
575	0.800	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
576	0.700	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
577	0.600	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
578	0.500	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
579	0.400	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
580	0.300	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
581	0.200	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
582	0.100	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
583	0.000	7.69	0.39	0.11	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.33	0.07	0.00	0.00	0.00	0.00	0.00	0.65			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
538	4.500	29.00	0.10	23.30	212.33	5.40	2.59	0.00	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.40
539	4.400	29.00	0.10	23.30	212.33	5.39	2.38	0.00	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.43
540	4.300	29.00	0.10	23.30	212.33	5.41	2.26	0.00	2.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.44
541	4.200	29.00	0.10	23.30	212.33	5.42	2.19	0.00	2.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
542	4.100	29.00	0.10	23.30	212.33	5.44	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
543	4.000	29.00	0.10	23.30	212.33	5.44	2.13	0.00	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
544	3.900	29.00	0.10	23.30	212.33	5.45	2.12	0.00	2.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
545	3.800	29.00	0.10	23.30	212.33	5.45	2.11	0.00	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
546	3.700	29.00	0.10	23.30	212.33	5.45	2.11	0.00	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
547	3.600	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
548	3.500	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
549	3.400	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
550	3.300	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
551	3.200	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
552	3.100	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
553	3.000	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
554	2.900	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
555	2.800	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
556	2.700	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
557	2.600	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
558	2.500	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
559	2.400	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
560	2.300	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
561	2.200	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
562	2.100	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
563	2.000	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
564	1.900	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
565	1.800	29.00	0.10	23.30	212.33	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
566	1.700	29.00	0.10	23.18	211.22	5.34	2.40	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.60
567	1.600	29.00	0.10	22.94	209.04	5.14	2.88	0.00	2.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.81
568	1.500	29.00	0.10	22.94	209.04	5.23	2.55	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
569	1.400	29.00	0.10	22.94	209.04	5.32	2.36	0.00	2.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.52
570	1.300	29.00	0.10	22.94	209.04	5.38	2.25	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.48
571	1.200	29.00	0.10	22.94	209.04	5.41	2.19	0.00	2.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
572	1.100	29.00	0.10	22.94	209.04	5.43	2.15	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
573	1.000	29.00	0.10	22.94	209.04	5.44	2.13	0.00	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
574	0.900	29.00	0.10	22.94	209.04	5.45	2.12	0.00	2.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
575	0.800	29.00	0.10	22.94	209.04	5.45	2.11	0.00	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
576	0.700	29.00	0.10	22.94	209.04	5.45	2.11	0.00	2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
577	0.600	29.00	0.10	22.94	209.04	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
578	0.500	29.00	0.10	22.94	209.04	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
579	0.400	29.00	0.10	22.94	209.04	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
580	0.300	29.00	0.10	22.94	209.04	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
581	0.200	29.00	0.10	22.94	209.04	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
582	0.100	29.00	0.10	22.94	209.04	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
583	0.000	29.00	0.10	22.94	209.04	5.45	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45

STREAM SUMMARY
Theriot Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Summer Projection Meeting DO Standard of 5 mg/L

TRAVEL TIME	=	32669.48 DAYS			
MAXIMUM EFFLUENT	=	60.00 PERCENT			
FLOW	=	0.00300	TO	0.02133	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00000	TO	0.00032	m/s
DEPTH	=	0.56	TO	2.01	m
WIDTH	=	14.00	TO	******	m
BOD DECAY	=	0.11	TO	0.11	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.23	TO	1.55	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.39	TO	1.41	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	=	29.00	TO	29.00	deg C
DISSOLVED OXYGEN	=	5.14	TO	5.95	mg/L

FINAL REPORT Halpin Canal
REACH NO. 5 Halpin Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
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
134	HDWTR	0.00300	0.00	0.00	29.10	245.20	7.21	4.15	0.00	4.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74
204	WSTLD	0.00300	0.00	0.00	24.20	201.40	7.21	4.11	0.00	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
134	15.50	15.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
135	15.40	15.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
136	15.30	15.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
137	15.20	15.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
138	15.10	15.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
139	15.00	14.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
140	14.90	14.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
141	14.80	14.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
142	14.70	14.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
143	14.60	14.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
144	14.50	14.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
145	14.40	14.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
146	14.30	14.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
147	14.20	14.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
148	14.10	14.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
149	14.00	13.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
150	13.90	13.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
151	13.80	13.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
152	13.70	13.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
153	13.60	13.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
154	13.50	13.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
155	13.40	13.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
156	13.30	13.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
157	13.20	13.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
158	13.10	13.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
159	13.00	12.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
160	12.90	12.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
161	12.80	12.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
162	12.70	12.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
163	12.60	12.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
164	12.50	12.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
165	12.40	12.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
166	12.30	12.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
167	12.20	12.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
168	12.10	12.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
169	12.00	11.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
170	11.90	11.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
171	11.80	11.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
172	11.70	11.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
173	11.60	11.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
174	11.50	11.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
175	11.40	11.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
176	11.30	11.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
177	11.20	11.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
178	11.10	11.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
179	11.00	10.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
180	10.90	10.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
181	10.80	10.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
182	10.70	10.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
183	10.60	10.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000

184	10.50	10.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
185	10.40	10.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
186	10.30	10.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
187	10.20	10.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
188	10.10	10.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
189	10.00	9.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
190	9.90	9.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
191	9.80	9.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
192	9.70	9.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
193	9.60	9.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
194	9.50	9.40	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
195	9.40	9.30	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
196	9.30	9.20	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
197	9.20	9.10	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
198	9.10	9.00	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
199	9.00	8.90	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
200	8.90	8.80	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
201	8.80	8.70	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
202	8.70	8.60	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
203	8.60	8.50	0.00300	0.0	0.00017	6.80	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
204	8.50	8.40	0.00600	50.0	0.00034	3.40	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
205	8.40	8.30	0.00600	50.0	0.00034	3.40	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
206	8.30	8.20	0.00600	50.0	0.00034	3.40	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
207	8.20	8.10	0.00600	50.0	0.00034	3.40	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
208	8.10	8.00	0.00600	50.0	0.00034	3.40	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.000
TOT						493.18			132240.09	174000.00					
AVG					0.00018		0.76	23.20			17.63				
CUM						493.18									

********** 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
134	15.400	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
135	15.300	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
136	15.200	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
137	15.100	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
138	15.000	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
139	14.900	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
140	14.800	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
141	14.700	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
142	14.600	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
143	14.500	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
144	14.400	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
145	14.300	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
146	14.200	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
147	14.100	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
148	14.000	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
149	13.900	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
150	13.800	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
151	13.700	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
152	13.600	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00

153	13.500	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
154	13.400	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
155	13.300	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
156	13.200	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
157	13.100	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
158	13.000	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
159	12.900	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
160	12.800	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
161	12.700	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
162	12.600	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
163	12.500	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
164	12.400	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
165	12.300	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
166	12.200	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
167	12.100	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
168	12.000	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
169	11.900	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
170	11.800	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
171	11.700	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
172	11.600	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
173	11.500	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
174	11.400	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
175	11.300	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
176	11.200	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
177	11.100	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
178	11.000	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
179	10.900	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
180	10.800	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
181	10.700	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
182	10.600	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
183	10.500	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
184	10.400	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
185	10.300	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
186	10.200	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
187	10.100	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
188	10.000	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
189	9.900	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
190	9.800	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
191	9.700	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
192	9.600	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
193	9.500	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
194	9.400	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
195	9.300	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
196	9.200	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
197	9.100	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
198	9.000	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
199	8.900	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
200	8.800	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
201	8.700	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
202	8.600	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
203	8.500	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
204	8.400	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
205	8.300	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
206	8.200	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
207	8.100	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
208	8.000	7.69	1.04	0.11	0.00	0.00	0.00	0.00	0.00	1.76	1.76	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00

AVG 20 DEG C RATE 0.88 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 0.10 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
134	15.400	29.00	0.12	29.10	245.20	5.27	3.46	0.00	3.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.58
135	15.300	29.00	0.12	29.10	245.20	5.07	3.06	0.00	3.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
136	15.200	29.00	0.12	29.10	245.20	5.08	2.83	0.00	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.48
137	15.100	29.00	0.12	29.10	245.20	5.09	2.69	0.00	2.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
138	15.000	29.00	0.12	29.10	245.20	5.10	2.61	0.00	2.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.46
139	14.900	29.00	0.12	29.10	245.20	5.11	2.56	0.00	2.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
140	14.800	29.00	0.12	29.10	245.20	5.11	2.54	0.00	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
141	14.700	29.00	0.12	29.10	245.20	5.11	2.52	0.00	2.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
142	14.600	29.00	0.12	29.10	245.20	5.11	2.51	0.00	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
143	14.500	29.00	0.12	29.10	245.20	5.11	2.51	0.00	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
144	14.400	29.00	0.12	29.10	245.20	5.11	2.51	0.00	2.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
145	14.300	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
146	14.200	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
147	14.100	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
148	14.000	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
149	13.900	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
150	13.800	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
151	13.700	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
152	13.600	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
153	13.500	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
154	13.400	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
155	13.300	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
156	13.200	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
157	13.100	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
158	13.000	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
159	12.900	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
160	12.800	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
161	12.700	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
162	12.600	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
163	12.500	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
164	12.400	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
165	12.300	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
166	12.200	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
167	12.100	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
168	12.000	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
169	11.900	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
170	11.800	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
171	11.700	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
172	11.600	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
173	11.500	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
174	11.400	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
175	11.300	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
176	11.200	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
177	11.100	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
178	11.000	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45

179	10.900	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
180	10.800	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
181	10.700	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
182	10.600	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
183	10.500	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
184	10.400	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
185	10.300	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
186	10.200	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
187	10.100	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
188	10.000	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
189	9.900	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
190	9.800	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
191	9.700	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
192	9.600	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
193	9.500	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
194	9.400	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
195	9.300	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
196	9.200	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
197	9.100	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
198	9.000	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
199	8.900	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
200	8.800	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
201	8.700	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
202	8.600	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
203	8.500	29.00	0.12	29.10	245.20	5.11	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
204	8.400	29.00	0.12	26.65	223.30	5.29	3.09	0.00	3.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
205	8.300	29.00	0.12	26.65	223.30	5.11	2.94	0.00	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53
206	8.200	29.00	0.12	26.65	223.30	5.09	2.82	0.00	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.50
207	8.100	29.00	0.12	26.65	223.30	5.09	2.74	0.00	2.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.48
208	8.000	29.00	0.12	26.65	223.30	5.10	2.67	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.47

********** 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
209	UPR RCH	0.00600	29.00	0.12	26.65	223.30	5.10	2.67	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47
227	WSTLD	0.00300	0.00	0.00	24.20	201.40	7.21	4.11	0.00	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85

********** 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
209	8.00	7.90	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
210	7.90	7.80	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
211	7.80	7.70	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
212	7.70	7.60	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
213	7.60	7.50	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
214	7.50	7.40	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
215	7.40	7.30	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
216	7.30	7.20	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
217	7.20	7.10	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
218	7.10	7.00	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
219	7.00	6.90	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
220	6.90	6.80	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
221	6.80	6.70	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
222	6.70	6.60	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
223	6.60	6.50	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
224	6.50	6.40	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
225	6.40	6.30	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
226	6.30	6.20	0.00600	50.0	0.00024	4.82	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
227	6.20	6.10	0.00900	66.7	0.00036	3.21	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
228	6.10	6.00	0.00900	66.7	0.00036	3.21	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
229	6.00	5.90	0.00900	66.7	0.00036	3.21	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
230	5.90	5.80	0.00900	66.7	0.00036	3.21	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.000
TOT						99.63			54978.00	52360.00					
AVG					0.00026		1.05	23.80			24.99				
CUM						592.80									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
209	7.900	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
210	7.800	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
211	7.700	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
212	7.600	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
213	7.500	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
214	7.400	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
215	7.300	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
216	7.200	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
217	7.100	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
218	7.000	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
219	6.900	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
220	6.800	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
221	6.700	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
222	6.600	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
223	6.500	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
224	6.400	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
225	6.300	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
226	6.200	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
227	6.100	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
228	6.000	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
229	5.900	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
230	5.800	7.69	0.75	0.11	0.00	0.00	0.00	0.00	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.64	0.07	0.00	0.00	0.00	0.00	0.00	0.27			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
209	7.900	29.00	0.12	26.65	223.30	6.06	4.44	0.00	4.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53
210	7.800	29.00	0.12	26.65	223.30	6.14	5.61	0.00	5.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.56
211	7.700	29.00	0.12	26.65	223.30	6.06	6.39	0.00	6.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.58
212	7.600	29.00	0.12	26.65	223.30	5.99	6.90	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.58
213	7.500	29.00	0.12	26.65	223.30	5.93	7.24	0.00	7.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
214	7.400	29.00	0.12	26.65	223.30	5.90	7.47	0.00	7.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
215	7.300	29.00	0.12	26.65	223.30	5.87	7.61	0.00	7.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
216	7.200	29.00	0.12	26.65	223.30	5.86	7.71	0.00	7.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
217	7.100	29.00	0.12	26.65	223.30	5.85	7.78	0.00	7.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
218	7.000	29.00	0.12	26.65	223.30	5.84	7.82	0.00	7.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
219	6.900	29.00	0.12	26.65	223.30	5.83	7.85	0.00	7.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
220	6.800	29.00	0.12	26.65	223.30	5.83	7.87	0.00	7.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
221	6.700	29.00	0.12	26.65	223.30	5.83	7.88	0.00	7.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
222	6.600	29.00	0.12	26.65	223.30	5.83	7.89	0.00	7.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
223	6.500	29.00	0.12	26.65	223.30	5.83	7.90	0.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
224	6.400	29.00	0.12	26.65	223.30	5.82	7.90	0.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
225	6.300	29.00	0.12	26.65	223.30	5.82	7.90	0.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59

226	6.200	29.00	0.12	26.65	223.30	5.82	7.90	0.00	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
227	6.100	29.00	0.12	25.83	216.00	6.05	6.96	0.00	6.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.65
228	6.000	29.00	0.12	25.83	216.00	5.96	7.20	0.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
229	5.900	29.00	0.12	25.83	216.00	5.91	7.38	0.00	7.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
230	5.800	29.00	0.12	25.83	216.00	5.89	7.51	0.00	7.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61

FINAL REPORT Halpin Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 7 Halpin Canal 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
231	UPR RCH	0.00900	29.00	0.12	25.83	216.00	5.89	7.51	0.00	7.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61

********** 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
231	5.80	5.70	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
232	5.70	5.60	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
233	5.60	5.50	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
234	5.50	5.40	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
235	5.40	5.30	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
236	5.30	5.20	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
237	5.20	5.10	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
238	5.10	5.00	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
239	5.00	4.90	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
240	4.90	4.80	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
241	4.80	4.70	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
242	4.70	4.60	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
243	4.60	4.50	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
244	4.50	4.40	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
245	4.40	4.30	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
246	4.30	4.20	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
247	4.20	4.10	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
248	4.10	4.00	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
249	4.00	3.90	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
250	3.90	3.80	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
251	3.80	3.70	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
252	3.70	3.60	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
253	3.60	3.50	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
254	3.50	3.40	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
255	3.40	3.30	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
256	3.30	3.20	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
257	3.20	3.10	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
258	3.10	3.00	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
259	3.00	2.90	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
260	2.90	2.80	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
261	2.80	2.70	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000

262	2.70	2.60	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
263	2.60	2.50	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
264	2.50	2.40	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
265	2.40	2.30	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
266	2.30	2.20	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
267	2.20	2.10	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
268	2.10	2.00	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
269	2.00	1.90	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
270	1.90	1.80	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
271	1.80	1.70	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
272	1.70	1.60	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
273	1.60	1.50	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
274	1.50	1.40	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
275	1.40	1.30	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
276	1.30	1.20	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
277	1.20	1.10	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
278	1.10	1.00	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
279	1.00	0.90	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
280	0.90	0.80	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
281	0.80	0.70	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
282	0.70	0.60	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
283	0.60	0.50	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
284	0.50	0.40	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
285	0.40	0.30	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
286	0.30	0.20	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
287	0.20	0.10	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
288	0.10	0.00	0.00900	66.7	0.00028	4.20	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.000
TOT						243.87			189636.73	141520.00					
AVG					0.00028		1.34	24.40			32.70				
CUM						836.68									

********** 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
231	5.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
232	5.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
233	5.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
234	5.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
235	5.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
236	5.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
237	5.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
238	5.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
239	4.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
240	4.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
241	4.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
242	4.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
243	4.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
244	4.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
245	4.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
246	4.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
247	4.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00

248	4.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
249	3.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
250	3.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
251	3.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
252	3.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
253	3.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
254	3.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
255	3.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
256	3.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
257	3.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
258	3.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
259	2.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
260	2.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
261	2.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
262	2.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
263	2.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
264	2.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
265	2.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
266	2.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
267	2.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
268	2.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
269	1.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
270	1.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
271	1.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
272	1.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
273	1.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
274	1.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
275	1.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
276	1.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
277	1.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
278	1.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
279	0.900	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
280	0.800	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
281	0.700	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
282	0.600	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
283	0.500	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
284	0.400	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
285	0.300	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
286	0.200	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
287	0.100	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
288	0.000	7.69	0.59	0.11	0.00	0.00	0.00	0.00	0.00	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
AVG 20 DEG C RATE			0.50	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	0.10	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
231	5.700	29.00	0.12	25.83	216.00	5.50	6.70	0.00	6.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.59
232	5.600	29.00	0.12	25.83	216.00	5.46	6.14	0.00	6.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.58
233	5.500	29.00	0.12	25.83	216.00	5.50	5.75	0.00	5.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.58
234	5.400	29.00	0.12	25.83	216.00	5.54	5.49	0.00	5.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.58

235	5.300	29.00	0.12	25.83	216.00	5.58	5.30	0.00	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.58
236	5.200	29.00	0.12	25.83	216.00	5.61	5.17	0.00	5.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
237	5.100	29.00	0.12	25.83	216.00	5.63	5.08	0.00	5.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
238	5.000	29.00	0.12	25.83	216.00	5.64	5.02	0.00	5.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
239	4.900	29.00	0.12	25.83	216.00	5.65	4.98	0.00	4.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
240	4.800	29.00	0.12	25.83	216.00	5.66	4.95	0.00	4.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
241	4.700	29.00	0.12	25.83	216.00	5.66	4.93	0.00	4.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
242	4.600	29.00	0.12	25.83	216.00	5.66	4.91	0.00	4.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
243	4.500	29.00	0.12	25.83	216.00	5.67	4.90	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
244	4.400	29.00	0.12	25.83	216.00	5.67	4.90	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
245	4.300	29.00	0.12	25.83	216.00	5.67	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
246	4.200	29.00	0.12	25.83	216.00	5.67	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
247	4.100	29.00	0.12	25.83	216.00	5.67	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
248	4.000	29.00	0.12	25.83	216.00	5.67	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
249	3.900	29.00	0.12	25.83	216.00	5.67	4.89	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
250	3.800	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
251	3.700	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
252	3.600	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
253	3.500	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
254	3.400	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
255	3.300	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
256	3.200	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
257	3.100	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
258	3.000	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
259	2.900	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
260	2.800	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
261	2.700	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
262	2.600	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
263	2.500	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
264	2.400	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
265	2.300	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
266	2.200	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
267	2.100	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
268	2.000	29.00	0.12	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
269	1.900	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
270	1.800	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
271	1.700	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
272	1.600	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
273	1.500	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
274	1.400	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
275	1.300	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
276	1.200	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
277	1.100	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
278	1.000	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
279	0.900	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
280	0.800	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
281	0.700	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
282	0.600	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
283	0.500	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
284	0.400	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
285	0.300	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
286	0.200	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
287	0.100	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57
288	0.000	29.00	0.11	25.83	216.00	5.67	4.88	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.57

STREAM SUMMARY
Halpin Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Summer Projection Meeting DO Standard of 5 mg/L

TRAVEL TIME	=	836.68	DAYS		
MAXIMUM EFFLUENT	=	66.67	PERCENT		
FLOW	=	0.00300	TO	0.00900	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00017	TO	0.00036	m/s
DEPTH	=	0.76	TO	1.34	m
WIDTH	=	23.20	TO	24.40	m
BOD DECAY	=	0.11	TO	0.11	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.48	TO	1.76	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.59	TO	1.04	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	=	29.00	TO	29.00	deg C
DISSOLVED OXYGEN	=	5.07	TO	6.14	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
304	HDWTR	0.00300	0.00	0.00	12.10	143.00	7.21	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30

********** 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
304	22.00	21.90	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
305	21.90	21.80	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
306	21.80	21.70	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
307	21.70	21.60	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
308	21.60	21.50	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
309	21.50	21.40	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
310	21.40	21.30	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
311	21.30	21.20	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
312	21.20	21.10	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
313	21.10	21.00	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
314	21.00	20.90	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
315	20.90	20.80	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
316	20.80	20.70	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
317	20.70	20.60	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
318	20.60	20.50	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
319	20.50	20.40	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
320	20.40	20.30	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
321	20.30	20.20	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
322	20.20	20.10	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
323	20.10	20.00	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
324	20.00	19.90	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
325	19.90	19.80	0.00300	0.0	0.00015	7.49	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.000
TOT						164.85			42728.39	42900.00					
AVG					0.00015		1.00	19.50			19.42				
CUM						164.85									

********** 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
304	21.900	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
305	21.800	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
306	21.700	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
307	21.600	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
308	21.500	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
309	21.400	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
310	21.300	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
311	21.200	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
312	21.100	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
313	21.000	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
314	20.900	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
315	20.800	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
316	20.700	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
317	20.600	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
318	20.500	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
319	20.400	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
320	20.300	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
321	20.200	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
322	20.100	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
323	20.000	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
324	19.900	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
325	19.800	7.69	0.79	0.08	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.67	0.05	0.00	0.00	0.00	0.00	0.00	0.71			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
304	21.900	29.00	0.08	12.10	143.00	5.48	3.80	0.00	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.66
305	21.800	29.00	0.08	12.10	143.00	5.33	3.43	0.00	3.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.55
306	21.700	29.00	0.08	12.10	143.00	5.34	3.20	0.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53
307	21.600	29.00	0.08	12.10	143.00	5.36	3.05	0.00	3.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53
308	21.500	29.00	0.08	12.10	143.00	5.37	2.95	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53
309	21.400	29.00	0.08	12.10	143.00	5.38	2.89	0.00	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53
310	21.300	29.00	0.08	12.10	143.00	5.38	2.85	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53
311	21.200	29.00	0.08	12.10	143.00	5.38	2.83	0.00	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53
312	21.100	29.00	0.08	12.10	143.00	5.39	2.81	0.00	2.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53
313	21.000	29.00	0.08	12.10	143.00	5.39	2.80	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53
314	20.900	29.00	0.08	12.10	143.00	5.39	2.80	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.53
315	20.800	29.00	0.08	12.10	143.00	5.39	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
316	20.700	29.00	0.08	12.10	143.00	5.39	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
317	20.600	29.00	0.08	12.10	143.00	5.39	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
318	20.500	29.00	0.08	12.10	143.00	5.39	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
319	20.400	29.00	0.08	12.10	143.00	5.39	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
320	20.300	29.00	0.08	12.10	143.00	5.39	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

321	20.200	29.00	0.08	12.10	143.00	5.39	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
322	20.100	29.00	0.08	12.10	143.00	5.39	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
323	20.000	29.00	0.08	12.10	143.00	5.39	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
324	19.900	29.00	0.08	12.10	143.00	5.39	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
325	19.800	29.00	0.08	12.10	143.00	5.39	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

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 10 Grand Bayou 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
326	UPR RCH	0.00300	29.00	0.08	12.10	143.00	5.39	2.79	0.00	2.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53
327	WSTLD	0.00300	0.00	0.00	19.40	207.70	7.21	4.37	0.00	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30

********** 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
326	19.80	19.70	0.00300	0.0	0.00006	19.00	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
327	19.70	19.60	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
328	19.60	19.50	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
329	19.50	19.40	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
330	19.40	19.30	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
331	19.30	19.20	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
332	19.20	19.10	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
333	19.10	19.00	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
334	19.00	18.90	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
335	18.90	18.80	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
336	18.80	18.70	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
337	18.70	18.60	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
338	18.60	18.50	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
339	18.50	18.40	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
340	18.40	18.30	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
341	18.30	18.20	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
342	18.20	18.10	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
343	18.10	18.00	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
344	18.00	17.90	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
345	17.90	17.80	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
346	17.80	17.70	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
347	17.70	17.60	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
348	17.60	17.50	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
349	17.50	17.40	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
350	17.40	17.30	0.00600	50.0	0.00012	9.50	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.000
TOT						246.95			123093.75	81250.00					
AVG					0.00012		1.51	32.50			49.24				
CUM						411.79									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
326	19.700	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
327	19.600	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
328	19.500	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
329	19.400	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
330	19.300	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
331	19.200	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
332	19.100	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
333	19.000	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
334	18.900	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
335	18.800	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
336	18.700	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
337	18.600	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
338	18.500	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
339	18.400	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
340	18.300	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
341	18.200	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
342	18.100	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
343	18.000	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
344	17.900	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
345	17.800	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
346	17.700	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
347	17.600	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
348	17.500	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
349	17.400	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
350	17.300	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.52	1.52	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.44	0.05	0.00	0.00	0.00	0.00	0.00	0.86			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
326	19.700	29.00	0.08	12.10	143.00	5.16	1.90	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.27
327	19.600	29.00	0.08	15.75	175.35	5.21	2.36	0.00	2.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.32
328	19.500	29.00	0.08	15.75	175.35	5.17	1.92	0.00	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.26
329	19.400	29.00	0.08	15.75	175.35	5.20	1.65	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
330	19.300	29.00	0.08	15.75	175.35	5.22	1.50	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
331	19.200	29.00	0.08	15.75	175.35	5.24	1.41	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
332	19.100	29.00	0.08	15.75	175.35	5.25	1.36	0.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
333	19.000	29.00	0.08	15.75	175.35	5.25	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
334	18.900	29.00	0.08	15.75	175.35	5.26	1.31	0.00	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
335	18.800	29.00	0.08	15.75	175.35	5.26	1.30	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
336	18.700	29.00	0.08	15.75	175.35	5.26	1.30	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
337	18.600	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
338	18.500	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25

339	18.400	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
340	18.300	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
341	18.200	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
342	18.100	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
343	18.000	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
344	17.900	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
345	17.800	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
346	17.700	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
347	17.600	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
348	17.500	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
349	17.400	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25
350	17.300	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.25

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 11 Grand Bayou 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
351	UPR RCH	0.00600	29.00	0.08	15.75	175.35	5.26	1.29	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25

********** 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
351	17.30	17.20	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
352	17.20	17.10	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
353	17.10	17.00	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
354	17.00	16.90	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
355	16.90	16.80	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
356	16.80	16.70	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
357	16.70	16.60	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
358	16.60	16.50	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
359	16.50	16.40	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
360	16.40	16.30	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
361	16.30	16.20	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
362	16.20	16.10	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
363	16.10	16.00	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
364	16.00	15.90	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
365	15.90	15.80	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
366	15.80	15.70	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
367	15.70	15.60	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
368	15.60	15.50	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
369	15.50	15.40	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
370	15.40	15.30	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
371	15.30	15.20	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
372	15.20	15.10	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
373	15.10	15.00	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000
374	15.00	14.90	0.00600	50.0	0.00018	6.32	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.000

TOT							151.72						78650.88	70224.00									
AVG						0.00018			1.12	29.26					32.77								
CUM							563.51																

********** 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
351	17.200	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
352	17.100	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
353	17.000	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
354	16.900	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
355	16.800	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
356	16.700	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
357	16.600	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
358	16.500	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
359	16.400	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
360	16.300	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
361	16.200	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
362	16.100	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
363	16.000	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
364	15.900	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
365	15.800	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
366	15.700	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
367	15.600	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
368	15.500	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
369	15.400	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
370	15.300	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
371	15.200	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
372	15.100	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
373	15.000	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
374	14.900	7.69	0.70	0.08	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.60	0.05	0.00	0.00	0.00	0.00	0.00	1.02			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
351	17.200	29.00	0.08	15.75	175.35	5.06	0.87	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.31
352	17.100	29.00	0.08	15.75	175.35	5.04	0.59	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.32
353	17.000	29.00	0.08	15.75	175.35	5.05	0.40	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
354	16.900	29.00	0.08	15.75	175.35	5.07	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
355	16.800	29.00	0.08	15.75	175.35	5.08	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
356	16.700	29.00	0.08	15.75	175.35	5.08	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
357	16.600	29.00	0.08	15.75	175.35	5.09	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
358	16.500	29.00	0.08	15.75	175.35	5.09	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
359	16.400	29.00	0.08	15.75	175.35	5.09	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33

360	16.300	29.00	0.08	15.75	175.35	5.10	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
361	16.200	29.00	0.08	15.75	175.35	5.10	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
362	16.100	29.00	0.08	15.75	175.35	5.10	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
363	16.000	29.00	0.08	15.75	175.35	5.10	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
364	15.900	29.00	0.08	15.75	175.35	5.10	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
365	15.800	29.00	0.08	15.75	175.35	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
366	15.700	29.00	0.08	15.75	175.35	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
367	15.600	29.00	0.08	15.75	175.35	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
368	15.500	29.00	0.08	15.75	175.35	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
369	15.400	29.00	0.08	15.75	175.35	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
370	15.300	29.00	0.08	15.75	175.35	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
371	15.200	29.00	0.08	15.75	175.35	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
372	15.100	29.00	0.08	15.75	175.35	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
373	15.000	29.00	0.08	15.75	175.35	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
374	14.900	29.00	0.08	15.75	175.35	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 12 Grand Bayou 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
375	UPR RCH	0.00600	29.00	0.08	15.75	175.35	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33

********** 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
375	14.90	14.80	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
376	14.80	14.70	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
377	14.70	14.60	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
378	14.60	14.50	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
379	14.50	14.40	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
380	14.40	14.30	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
381	14.30	14.20	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
382	14.20	14.10	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
383	14.10	14.00	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
384	14.00	13.90	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
385	13.90	13.80	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
386	13.80	13.70	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
387	13.70	13.60	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
388	13.60	13.50	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
389	13.50	13.40	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
390	13.40	13.30	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
391	13.30	13.20	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
392	13.20	13.10	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
393	13.10	13.00	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
394	13.00	12.90	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
395	12.90	12.80	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000

396	12.80	12.70	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
397	12.70	12.60	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
398	12.60	12.50	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
399	12.50	12.40	0.00600	50.0	0.00022	5.30	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.000
TOT						132.52			68696.88	55625.00					
AVG					0.00022		1.24	22.25			27.48				
CUM						696.03									

********** 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
375	14.800	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
376	14.700	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
377	14.600	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
378	14.500	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
379	14.400	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
380	14.300	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
381	14.200	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
382	14.100	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
383	14.000	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
384	13.900	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
385	13.800	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
386	13.700	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
387	13.600	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
388	13.500	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
389	13.400	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
390	13.300	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
391	13.200	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
392	13.100	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
393	13.000	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
394	12.900	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
395	12.800	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
396	12.700	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
397	12.600	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
398	12.500	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
399	12.400	7.69	0.64	0.08	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.54	0.05	0.00	0.00	0.00	0.00	0.00	1.03			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
375	14.800	29.00	0.08	15.75	175.35	5.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
376	14.700	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
377	14.600	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
378	14.500	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29

379	14.400	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
380	14.300	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
381	14.200	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
382	14.100	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
383	14.000	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
384	13.900	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
385	13.800	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
386	13.700	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
387	13.600	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
388	13.500	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
389	13.400	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
390	13.300	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
391	13.200	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
392	13.100	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
393	13.000	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
394	12.900	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
395	12.800	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
396	12.700	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
397	12.600	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
398	12.500	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29
399	12.400	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.29

********** 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
400	UPR RCH	0.00600	29.00	0.08	15.75	175.35	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
400	12.40	12.30	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
401	12.30	12.20	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
402	12.20	12.10	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
403	12.10	12.00	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
404	12.00	11.90	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
405	11.90	11.80	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
406	11.80	11.70	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
407	11.70	11.60	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
408	11.60	11.50	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
409	11.50	11.40	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
410	11.40	11.30	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
411	11.30	11.20	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
412	11.20	11.10	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
413	11.10	11.00	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
414	11.00	10.90	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
415	10.90	10.80	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
416	10.80	10.70	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
417	10.70	10.60	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
418	10.60	10.50	0.00600	50.0	0.00015	7.59	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.000
TOT						144.19			74746.00	53390.00					
AVG					0.00015		1.40	28.10			39.34				
CUM						840.22									

********** 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
400	12.300	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
401	12.200	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
402	12.100	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
403	12.000	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
404	11.900	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
405	11.800	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
406	11.700	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00

407	11.600	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
408	11.500	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
409	11.400	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
410	11.300	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
411	11.200	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
412	11.100	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
413	11.000	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
414	10.900	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
415	10.800	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
416	10.700	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
417	10.600	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
418	10.500	7.69	0.56	0.08	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.48	0.05	0.00	0.00	0.00	0.00	0.00	0.94			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
400	12.300	29.00	0.08	15.75	175.35	5.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.33
401	12.200	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
402	12.100	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
403	12.000	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
404	11.900	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
405	11.800	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
406	11.700	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
407	11.600	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
408	11.500	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
409	11.400	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
410	11.300	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
411	11.200	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
412	11.100	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
413	11.000	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
414	10.900	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
415	10.800	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
416	10.700	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
417	10.600	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34
418	10.500	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.34

********** 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
419	UPR RCH	0.00600	29.00	0.08	15.75	175.35	5.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34

********** 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
419	10.50	10.40	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
420	10.40	10.30	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
421	10.30	10.20	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
422	10.20	10.10	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
423	10.10	10.00	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
424	10.00	9.90	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
425	9.90	9.80	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
426	9.80	9.70	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
427	9.70	9.60	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
428	9.60	9.50	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
429	9.50	9.40	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
430	9.40	9.30	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
431	9.30	9.20	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
432	9.20	9.10	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
433	9.10	9.00	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
434	9.00	8.90	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
435	8.90	8.80	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
436	8.80	8.70	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
437	8.70	8.60	0.00600	50.0	0.00010	11.22	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.000
TOT						213.20			110522.07	69730.00					
AVG					0.00010		1.58	36.70			58.17				
CUM						1053.41									

********** 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
419	10.400	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
420	10.300	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
421	10.200	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
422	10.100	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
423	10.000	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
424	9.900	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
425	9.800	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00

426	9.700	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
427	9.600	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
428	9.500	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
429	9.400	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
430	9.300	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
431	9.200	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
432	9.100	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
433	9.000	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
434	8.900	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
435	8.800	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
436	8.700	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
437	8.600	7.69	0.50	0.08	0.00	0.00	0.00	0.00	0.00	1.29	1.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.42	0.05	0.00	0.00	0.00	0.00	0.00	0.73			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
419	10.400	29.00	0.08	15.75	175.35	5.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.49
420	10.300	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.50
421	10.200	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
422	10.100	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
423	10.000	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
424	9.900	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
425	9.800	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
426	9.700	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
427	9.600	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
428	9.500	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
429	9.400	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
430	9.300	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
431	9.200	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
432	9.100	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
433	9.000	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
434	8.900	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
435	8.800	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
436	8.700	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51
437	8.600	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.51

********** 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
438	UPR RCH	0.00600	29.00	0.08	15.75	175.35	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51

********** 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
438	8.60	8.50	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
439	8.50	8.40	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
440	8.40	8.30	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
441	8.30	8.20	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
442	8.20	8.10	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
443	8.10	8.00	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
444	8.00	7.90	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
445	7.90	7.80	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
446	7.80	7.70	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
447	7.70	7.60	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
448	7.60	7.50	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
449	7.50	7.40	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
450	7.40	7.30	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
451	7.30	7.20	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
452	7.20	7.10	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
453	7.10	7.00	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
454	7.00	6.90	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
455	6.90	6.80	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
456	6.80	6.70	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
457	6.70	6.60	0.00600	50.0	0.00011	10.45	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.000
TOT						208.93			108306.83	65839.99					
AVG					0.00011		1.65	32.92			54.15				
CUM						1262.34									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
438	8.500	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
439	8.400	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
440	8.300	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
441	8.200	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
442	8.100	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
443	8.000	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00

444	7.900	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
445	7.800	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
446	7.700	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
447	7.600	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
448	7.500	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
449	7.400	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
450	7.300	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
451	7.200	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
452	7.100	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
453	7.000	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
454	6.900	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
455	6.800	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
456	6.700	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
457	6.600	7.69	0.48	0.08	0.00	0.00	0.00	0.00	0.00	1.48	1.48	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.40	0.05	0.00	0.00	0.00	0.00	0.00	0.84			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
438	8.500	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.41
439	8.400	29.00	0.08	15.75	175.35	5.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
440	8.300	29.00	0.08	15.75	175.35	5.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
441	8.200	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
442	8.100	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
443	8.000	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
444	7.900	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
445	7.800	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
446	7.700	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
447	7.600	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
448	7.500	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
449	7.400	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
450	7.300	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
451	7.200	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
452	7.100	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
453	7.000	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
454	6.900	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
455	6.800	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
456	6.700	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39
457	6.600	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.39

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
458	UPR RCH	0.00600	29.00	0.08	15.75	175.35	5.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39

********** 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
458	6.60	6.50	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
459	6.50	6.40	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
460	6.40	6.30	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
461	6.30	6.20	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
462	6.20	6.10	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
463	6.10	6.00	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
464	6.00	5.90	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
465	5.90	5.80	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
466	5.80	5.70	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
467	5.70	5.60	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
468	5.60	5.50	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
469	5.50	5.40	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
470	5.40	5.30	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
471	5.30	5.20	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
472	5.20	5.10	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
473	5.10	5.00	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
474	5.00	4.90	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
475	4.90	4.80	0.00600	50.0	0.00011	10.36	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.000
TOT						186.57			96717.61	63630.00					
AVG					0.00011		1.52	35.35			53.73				
CUM						1448.91									

********** 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
458	6.500	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
459	6.400	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
460	6.300	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
461	6.200	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
462	6.100	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
463	6.000	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
464	5.900	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
465	5.800	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00

466	5.700	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
467	5.600	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
468	5.500	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
469	5.400	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
470	5.300	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
471	5.200	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
472	5.100	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
473	5.000	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
474	4.900	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
475	4.800	7.69	0.52	0.08	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.44	0.05	0.00	0.00	0.00	0.00	0.00	0.81			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
458	6.500	29.00	0.08	15.75	175.35	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
459	6.400	29.00	0.08	15.75	175.35	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
460	6.300	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
461	6.200	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
462	6.100	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
463	6.000	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
464	5.900	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
465	5.800	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
466	5.700	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
467	5.600	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
468	5.500	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
469	5.400	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
470	5.300	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
471	5.200	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
472	5.100	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
473	5.000	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
474	4.900	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45
475	4.800	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.45

********** 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
476	UPR RCH	0.00600	29.00	0.08	15.75	175.35	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45

********** 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
476	4.80	4.70	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
477	4.70	4.60	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
478	4.60	4.50	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
479	4.50	4.40	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
480	4.40	4.30	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
481	4.30	4.20	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
482	4.20	4.10	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
483	4.10	4.00	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
484	4.00	3.90	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
485	3.90	3.80	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
486	3.80	3.70	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
487	3.70	3.60	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
488	3.60	3.50	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
489	3.50	3.40	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
490	3.40	3.30	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
491	3.30	3.20	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
492	3.20	3.10	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
493	3.10	3.00	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
494	3.00	2.90	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
495	2.90	2.80	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
496	2.80	2.70	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
497	2.70	2.60	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
498	2.60	2.50	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
499	2.50	2.40	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
500	2.40	2.30	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
501	2.30	2.20	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
502	2.20	2.10	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
503	2.10	2.00	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
504	2.00	1.90	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
505	1.90	1.80	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
506	1.80	1.70	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
507	1.70	1.60	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
508	1.60	1.50	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
509	1.50	1.40	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
510	1.40	1.30	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
511	1.30	1.20	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
512	1.20	1.10	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
513	1.10	1.00	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000

514	1.00	0.90	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
515	0.90	0.80	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
516	0.80	0.70	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
517	0.70	0.60	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
518	0.60	0.50	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
519	0.50	0.40	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
520	0.40	0.30	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
521	0.30	0.20	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
522	0.20	0.10	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
523	0.10	0.00	0.00600	50.0	0.00009	13.54	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.000
TOT						650.16			337040.84	165215.98					
AVG					0.00009		2.04	34.42			70.22				
CUM						2099.07									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
476	4.700	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
477	4.600	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
478	4.500	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
479	4.400	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
480	4.300	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
481	4.200	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
482	4.100	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
483	4.000	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
484	3.900	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
485	3.800	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
486	3.700	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
487	3.600	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
488	3.500	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
489	3.400	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
490	3.300	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
491	3.200	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
492	3.100	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
493	3.000	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
494	2.900	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
495	2.800	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
496	2.700	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
497	2.600	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
498	2.500	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
499	2.400	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
500	2.300	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
501	2.200	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
502	2.100	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
503	2.000	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
504	1.900	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
505	1.800	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
506	1.700	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
507	1.600	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
508	1.500	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
509	1.400	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00

510	1.300	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
511	1.200	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
512	1.100	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
513	1.000	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
514	0.900	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
515	0.800	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
516	0.700	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
517	0.600	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
518	0.500	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
519	0.400	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
520	0.300	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
521	0.200	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
522	0.100	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
523	0.000	7.69	0.39	0.08	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
AVG 20 DEG C RATE			0.33	0.05	0.00	0.00	0.00	0.00	0.00	0.40			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
476	4.700	29.00	0.08	15.75	175.35	5.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.61
477	4.600	29.00	0.08	15.75	175.35	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
478	4.500	29.00	0.08	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
479	4.400	29.00	0.08	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
480	4.300	29.00	0.08	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
481	4.200	29.00	0.08	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
482	4.100	29.00	0.08	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
483	4.000	29.00	0.08	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
484	3.900	29.00	0.08	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
485	3.800	29.00	0.08	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
486	3.700	29.00	0.08	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
487	3.600	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
488	3.500	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
489	3.400	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
490	3.300	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
491	3.200	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
492	3.100	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
493	3.000	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
494	2.900	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
495	2.800	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
496	2.700	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
497	2.600	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
498	2.500	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
499	2.400	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
500	2.300	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
501	2.200	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
502	2.100	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
503	2.000	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
504	1.900	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
505	1.800	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
506	1.700	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63

507	1.600	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
508	1.500	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
509	1.400	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
510	1.300	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
511	1.200	29.00	0.09	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
512	1.100	29.00	0.10	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
513	1.000	29.00	0.10	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
514	0.900	29.00	0.10	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
515	0.800	29.00	0.10	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
516	0.700	29.00	0.10	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
517	0.600	29.00	0.10	15.75	175.35	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
518	0.500	29.00	0.10	15.75	175.35	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
519	0.400	29.00	0.10	15.75	175.35	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
520	0.300	29.00	0.10	15.75	175.35	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
521	0.200	29.00	0.10	15.75	175.35	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
522	0.100	29.00	0.10	15.75	175.35	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63
523	0.000	29.00	0.10	15.75	175.35	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.63

STREAM SUMMARY
Grand Bayou

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Summer Projection Meeting DO Standard of 5 mg/L

TRAVEL TIME	=	2099.07	DAYS		
MAXIMUM EFFLUENT	=	50.00	PERCENT		
FLOW	=	0.00300	TO	0.00600	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00006	TO	0.00022	m/s
DEPTH	=	1.00	TO	2.04	m
WIDTH	=	19.50	TO	36.70	m
BOD DECAY	=	0.08	TO	0.08	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.71	TO	1.82	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.39	TO	0.79	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	=	29.00	TO	29.00	deg C
DISSOLVED OXYGEN	=	5.04	TO	5.71	mg/L

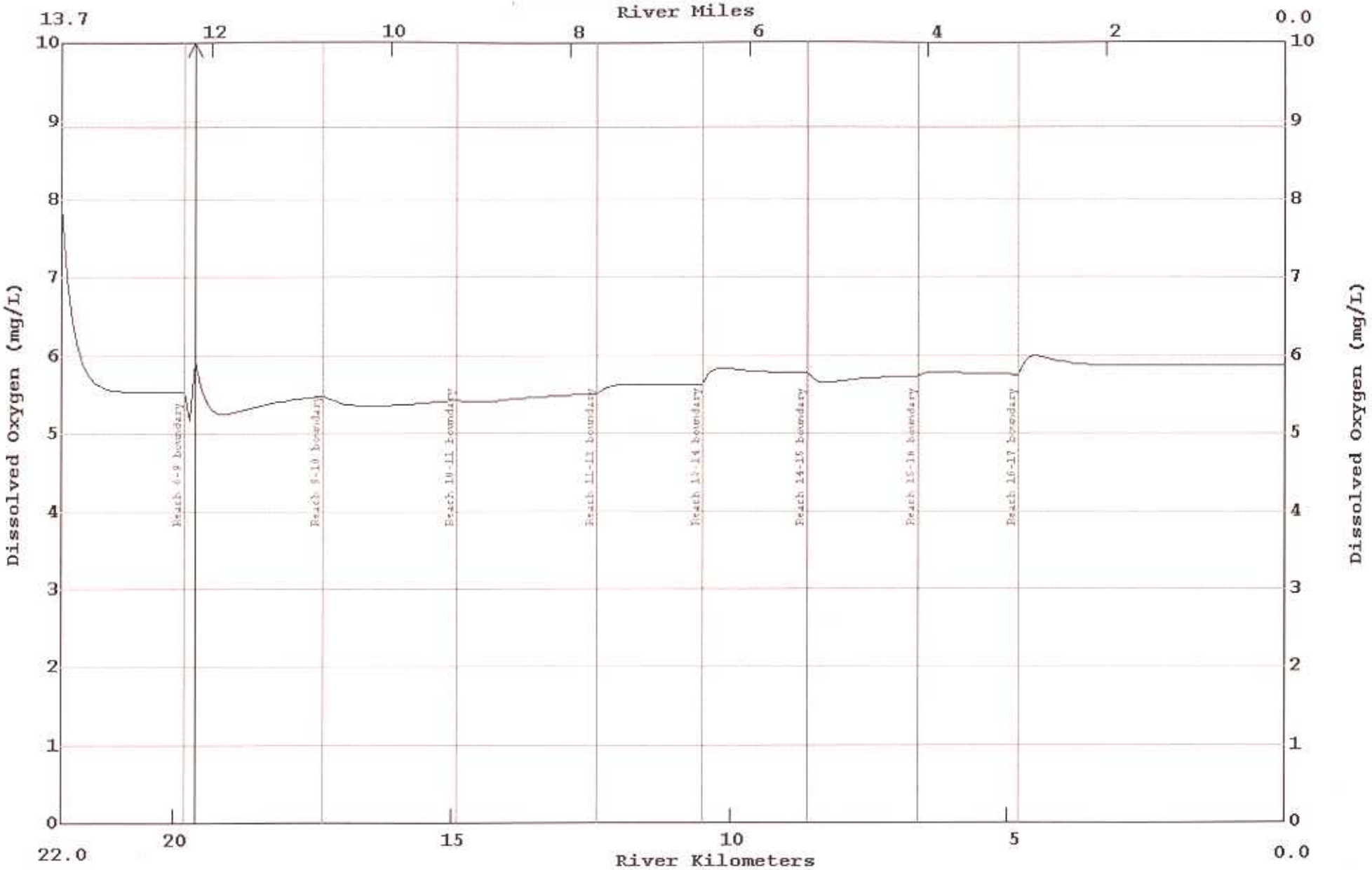
LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Summer Projection Meeting DO Standard of 5 mg/L

INPUT/OUTPUT LOADING SUMMARY

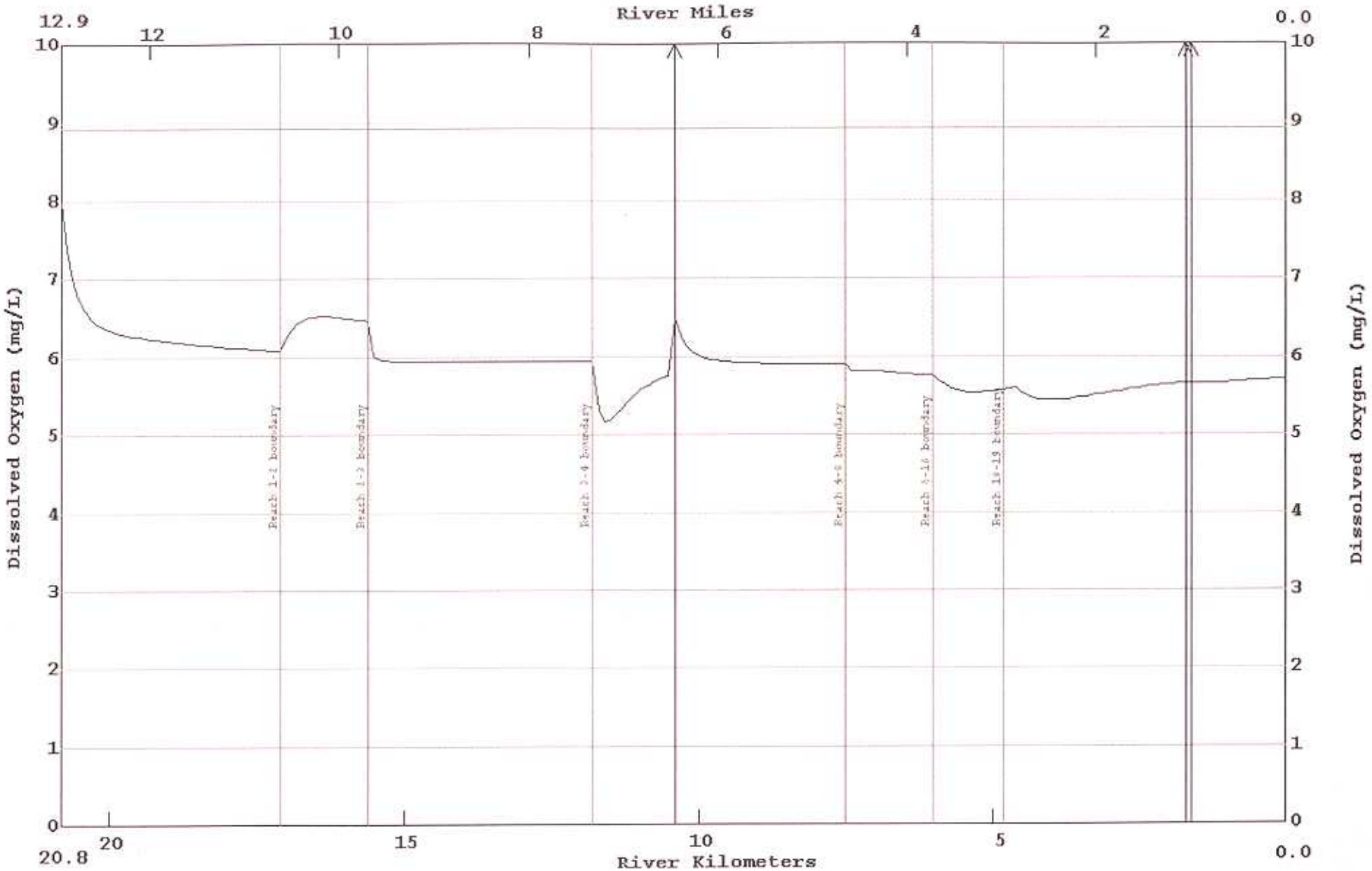
	FLOW m^3/s	DO kg/d	BOD#1 kg/d	BOD#2 kg/d	ORG-N kg/d	NH3-N kg/d	NO3-N kg/d	PHOS kg/d	CHL A	NCM
HEADWATER INFLOW	0.009	5.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7
INCREMENTAL INFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	0.012	7.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	2.8
WITHDRAWLS	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OUTFLOW THRU LOWER BNDRY	-0.021	-10.1	-3.9	0.0	0.0	0.0	0.0	0.0	0.0	-0.8
DISPERSION THRU LOWER BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	6139.0	0.0	0.0					2448.0
NATURAL REAERATION		12243.4								
DAM REAERATION		0.0								
BACKGROUND SOD		-3650.2								
BOD#1 DECAY		-6145.9	-6145.9							
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		-2450.8								-2450.8
NCM SETTLING		0.0								0.0
TOTAL INPUTS	0.021	12256.5	6149.6	0.0	0.0	0.0	0.0	0.0	0.0	2451.5
TOTAL OUTPUTS	-0.021	-12257.0	-6149.8	0.0	0.0	0.0	0.0	0.0	0.0	-2451.6
NET CONVERGENCE ERROR	0.000	-0.5	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.1

.....EXECUTION COMPLETED

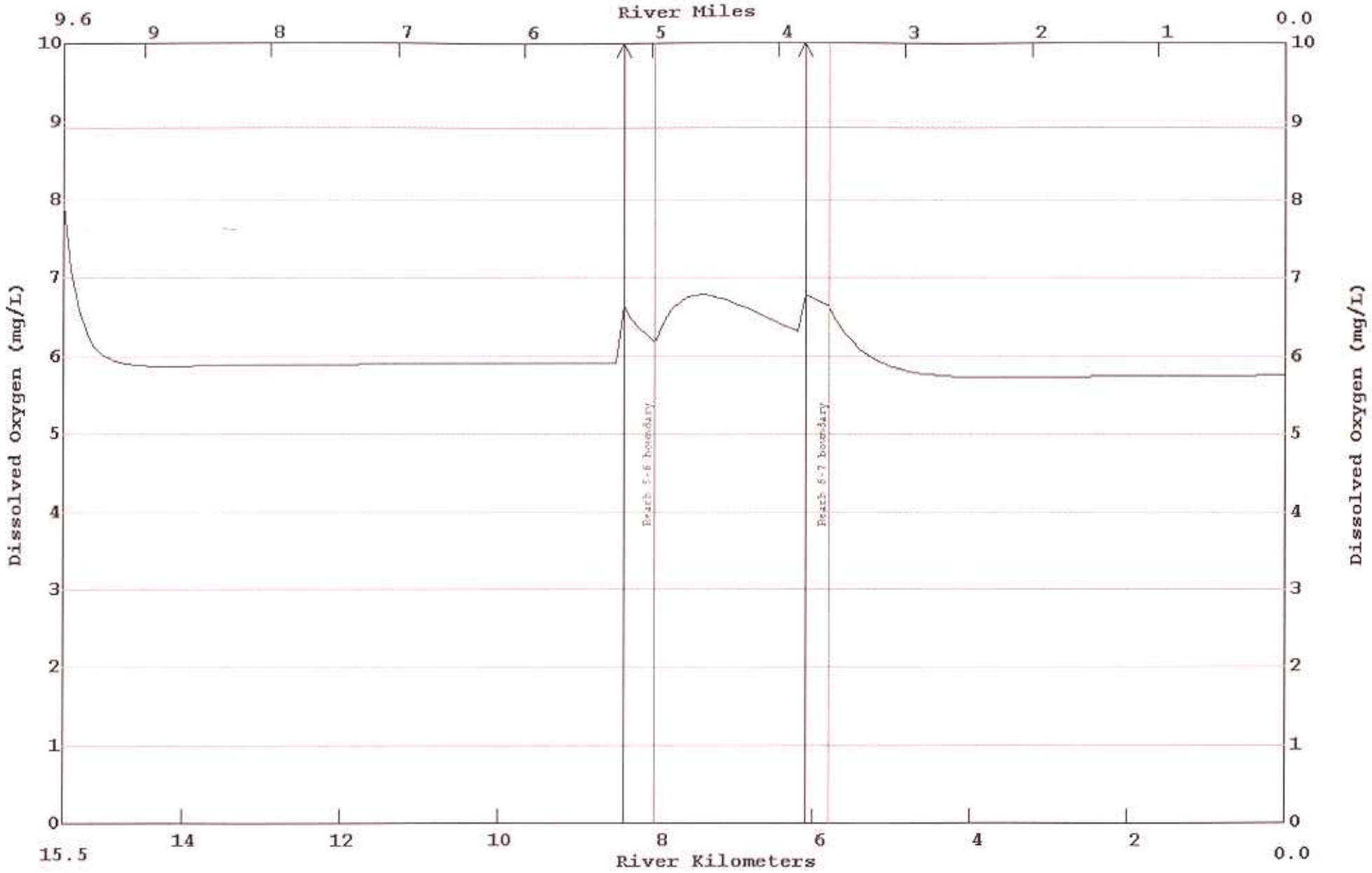
LA-QUAL Version 6.02 Run at 11:04 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\proj\winter\bf_wint.txt
Winter Projection Meeting DO Standard of 5 mg/L min= 5.16 max= 7.93
Grand Bayou



LA-QUAL Version 6.02 Run at 11:04 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\proj\winter\bf_wint.txt
Winter Projection Meeting DO Standard of 5 mg/L min= 5.16 max= 8.00
Main Stem



LA-QUAL Version 6.02 Run at 11:04 on 03/04/2004 File R:\projects\3110-051\la-qual\boeuf\proj\winter\bf_wint.txt
Winter Projection Meeting DO Standard of 5 mg/L min= 5.73 max= 7.95
Halpin Canal



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LA-QUAL Version 6.02
Louisiana Department of Environmental Quality

Input file is R:\projects\3110-051\la-qual\boeuf\proj\winter\bf_wint.txt
Output produced at 11:04 on 03/04/2004

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

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
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
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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	TC	Theriot Canal	20.80	TO	17.10	0.1000	3.70	37	1	37
REACH ID	2	TC	Theriot Canal	17.10	TO	15.60	0.1000	1.50	15	38	52
REACH ID	3	LB	Lake Boeuf	15.60	TO	11.80	0.1000	3.80	38	53	90
REACH ID	4	BB	Bayou Boeuf	11.80	TO	7.50	0.1000	4.30	43	91	133
REACH ID	5	HC	Halpin Canal	15.50	TO	8.00	0.1000	7.50	75	134	208
REACH ID	6	HC	Halpin Canal	8.00	TO	5.80	0.1000	2.20	22	209	230
REACH ID	7	HC	Halpin Canal	5.80	TO	0.00	0.1000	5.80	58	231	288
REACH ID	8	BB	Bayou Boeuf	7.50	TO	6.00	0.1000	1.50	15	289	303
REACH ID	9	GB	Grand Bayou	22.00	TO	19.80	0.1000	2.20	22	304	325
REACH ID	10	GB	Grand Bayou	19.80	TO	17.30	0.1000	2.50	25	326	350
REACH ID	11	GB	Grand Bayou	17.30	TO	14.90	0.1000	2.40	24	351	374
REACH ID	12	GB	Grand Bayou	14.90	TO	12.40	0.1000	2.50	25	375	399
REACH ID	13	GB	Grand Bayou	12.40	TO	10.50	0.1000	1.90	19	400	418
REACH ID	14	GB	Grand Bayou	10.50	TO	8.60	0.1000	1.90	19	419	437
REACH ID	15	GB	Grand Bayou	8.60	TO	6.60	0.1000	2.00	20	438	457
REACH ID	16	GB	Grand Bayou	6.60	TO	4.80	0.1000	1.80	18	458	475
REACH ID	17	GB	Grand Bayou	4.80	TO	0.00	0.1000	4.80	48	476	523
REACH ID	18	BB	Bayou Beouf	6.00	TO	4.60	0.1000	1.40	14	524	537
REACH ID	19	BB	Bayou Beouf	4.60	TO	0.00	0.1000	4.60	46	538	583

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	TC	0.000	0.000	20.900	0.000	0.000	0.560	0.00000	0.000
HYDR-1	2	TC	0.000	0.000	14.000	0.000	0.000	0.670	0.00000	0.000
HYDR-1	3	LB	0.000	0.000	1748.000	0.000	0.000	1.220	0.00000	0.000
HYDR-1	4	BB	0.000	0.000	47.850	0.000	0.000	1.325	0.00000	0.000
HYDR-1	5	HC	0.000	0.000	23.200	0.000	0.000	0.760	0.00000	0.000
HYDR-1	6	HC	0.000	0.000	23.800	0.000	0.000	1.050	0.00000	0.000
HYDR-1	7	HC	0.000	0.000	24.400	0.000	0.000	1.340	0.00000	0.000
HYDR-1	8	BB	0.000	0.000	41.500	0.000	0.000	1.710	0.00000	0.000
HYDR-1	9	GB	0.000	0.000	19.500	0.000	0.000	0.996	0.00000	0.000
HYDR-1	10	GB	0.000	0.000	32.500	0.000	0.000	1.515	0.00000	0.000
HYDR-1	11	GB	0.000	0.000	29.260	0.000	0.000	1.120	0.00000	0.000
HYDR-1	12	GB	0.000	0.000	22.250	0.000	0.000	1.235	0.00000	0.000
HYDR-1	13	GB	0.000	0.000	28.100	0.000	0.000	1.400	0.00000	0.000
HYDR-1	14	GB	0.000	0.000	36.700	0.000	0.000	1.585	0.00000	0.000
HYDR-1	15	GB	0.000	0.000	32.920	0.000	0.000	1.645	0.00000	0.000
HYDR-1	16	GB	0.000	0.000	35.350	0.000	0.000	1.520	0.00000	0.000
HYDR-1	17	GB	0.000	0.000	34.420	0.000	0.000	2.040	0.00000	0.000
HYDR-1	18	BB	0.000	0.000	69.030	0.000	0.000	1.850	0.00000	0.000
HYDR-1	19	BB	0.000	0.000	62.800	0.000	0.000	2.010	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"

ENDATA10

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

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	TC	20.88	0.12	5.70	0.00	0.00	0.00	0.00	0.00
INITIAL	2	TC	20.88	0.10	0.10	0.00	0.00	0.00	0.00	0.00
INITIAL	3	LB	20.88	0.10	0.10	0.00	0.00	0.00	0.00	0.00
INITIAL	4	BB	20.88	0.09	3.10	0.00	0.00	0.00	0.00	0.00
INITIAL	5	HC	20.88	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	6	HC	20.88	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	7	HC	20.88	0.12	1.70	0.00	0.00	0.00	0.00	0.00
INITIAL	8	BB	20.88	0.11	3.10	0.00	0.00	0.00	0.00	0.00
INITIAL	9	GB	20.88	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	10	GB	20.88	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	11	GB	20.88	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	12	GB	20.88	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	13	GB	20.88	0.08	2.25	0.00	0.00	0.00	0.00	0.00
INITIAL	14	GB	20.88	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	15	GB	20.88	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	16	GB	20.88	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	17	GB	20.88	0.08	2.60	0.00	0.00	0.00	0.00	0.00
INITIAL	18	BB	20.88	0.10	3.00	0.00	0.00	0.00	0.00	0.00
INITIAL	19	BB	20.88	0.10	3.00	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	TC	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	2	TC	15 LOUISIANA	0.000	0.000	0.000	0.940	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	LB	15 LOUISIANA	0.000	0.000	0.000	0.200	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	BB	15 LOUISIANA	0.000	0.000	0.000	0.920	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	HC	15 LOUISIANA	0.000	0.000	0.000	1.600	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	HC	15 LOUISIANA	0.000	0.000	0.000	0.570	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	HC	15 LOUISIANA	0.000	0.000	0.000	0.750	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	BB	15 LOUISIANA	0.000	0.000	0.000	0.440	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	GB	15 LOUISIANA	0.000	0.000	0.000	1.290	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	GB	15 LOUISIANA	0.000	0.000	0.000	1.510	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	11	GB	15 LOUISIANA	0.000	0.000	0.000	1.800	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	GB	15 LOUISIANA	0.000	0.000	0.000	1.830	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	GB	15 LOUISIANA	0.000	0.000	0.000	1.610	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	GB	15 LOUISIANA	0.000	0.000	0.000	1.210	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	15	GB	15 LOUISIANA	0.000	0.000	0.000	1.410	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	16	GB	15 LOUISIANA	0.000	0.000	0.000	1.360	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	17	GB	15 LOUISIANA	0.000	0.000	0.000	0.660	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	18	BB	15 LOUISIANA	0.000	0.000	0.000	0.960	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COEF-1	19	BB	15 LOUISIANA	0.000	0.000	0.000	1.090	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     ORG-N   ORGN CONV       NH3       NH3      PHOS     DENIT
                                DECA      SETT  TO NH3 SRCE     DECA      SRCE      SRCE      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   TC       0.000     0.100     0.000     0.000
COEF-4           2   TC       0.000     0.100     0.000     0.000
COEF-4           3   LB       0.000     0.100     0.000     0.000
COEF-4           4   BB       0.000     0.100     0.000     0.000
COEF-4           5   HC       0.000     0.100     0.000     0.000
COEF-4           6   HC       0.000     0.100     0.000     0.000
COEF-4           7   HC       0.000     0.100     0.000     0.000
COEF-4           8   BB       0.000     0.100     0.000     0.000
COEF-4           9   GB       0.000     0.360     0.000     0.000
COEF-4          10   GB       0.000     0.360     0.000     0.000
COEF-4          11   GB       0.000     0.360     0.000     0.000
COEF-4          12   GB       0.000     0.360     0.000     0.000
COEF-4          13   GB       0.000     0.360     0.000     0.000
COEF-4          14   GB       0.000     0.360     0.000     0.000
COEF-4          15   GB       0.000     0.360     0.000     0.000
COEF-4          16   GB       0.000     0.360     0.000     0.000
COEF-4          17   GB       0.000     0.360     0.000     0.000
COEF-4          18   BB       0.000     0.100     0.000     0.000
COEF-4          19   BB       0.000     0.100     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
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$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

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	TC	34.00	0.00	0.00	13.00	0.00	0.00
NONPOINT	2	TC	17.00	0.00	0.00	6.00	0.00	0.00
NONPOINT	3	LB	8839.00	0.00	0.00	3128.00	0.00	0.00
NONPOINT	4	BB	187.00	0.00	0.00	43.00	0.00	0.00
NONPOINT	5	HC	56.00	0.00	0.00	17.00	0.00	0.00
NONPOINT	6	HC	95.00	0.00	0.00	13.00	0.00	0.00
NONPOINT	7	HC	172.00	0.00	0.00	34.00	0.00	0.00
NONPOINT	8	BB	66.00	0.00	0.00	44.00	0.00	0.00
NONPOINT	9	GB	16.00	0.00	0.00	27.00	0.00	0.00
NONPOINT	10	GB	22.00	0.00	0.00	35.00	0.00	0.00
NONPOINT	11	GB	0.00	0.00	0.00	30.00	0.00	0.00
NONPOINT	12	GB	0.00	0.00	0.00	23.00	0.00	0.00
NONPOINT	13	GB	0.00	0.00	0.00	30.00	0.00	0.00
NONPOINT	14	GB	0.00	0.00	0.00	61.00	0.00	0.00
NONPOINT	15	GB	0.00	0.00	0.00	47.00	0.00	0.00
NONPOINT	16	GB	0.00	0.00	0.00	48.00	0.00	0.00
NONPOINT	17	GB	0.00	0.00	0.00	232.00	0.00	0.00
NONPOINT	18	BB	96.00	0.00	0.00	19.00	0.00	0.00
NONPOINT	19	BB	218.00	0.00	0.00	81.00	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	Theriot Canal	0	0.02800	0.989	0.00	0.00	17.500	288.400
HDWTR-1	134	Halpin Canal	0	0.02800	0.989	0.00	0.00	29.100	245.200
HDWTR-1	304	Grand Bayou	0	0.02800	0.989	0.00	0.00	12.100	143.000

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	Theriot Canal	8.00	5.99	0.00	0.00	0.00	0.00
HDWTR-2	134	Halpin Canal	7.95	6.59	0.00	0.00	0.00	0.00
HDWTR-2	304	Grand Bayou	7.93	6.97	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	Theriot Canal	0.00	0.00	0.00	0.96
HDWTR-3	134	Halpin Canal	0.00	0.00	0.00	1.17
HWDTR-3	304	Grand Bayou	0.00	0.00	0.00	2.07

ENDATA22

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

CARD TYPE	JUNCTION ELEMENT	UPSTRM ELEMENT	RIVER KILOM	NAME
JUNCTION	289	133	7.50	Halpin Canal
JUNCTION	524	303	6.00	Grand Bayou

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	104	10.50	Bowie Canal	0.02800	0.98870	0.639	0.00	0.00	36.600	199.200
WSTLD-1	204	8.50	Pitre Lening	0.02800	0.98870	0.639	0.00	0.00	24.200	201.400
WSTLD-1	227	6.20	Unnamed	0.02800	0.98870	0.639	0.00	0.00	24.200	201.400
WSTLD-1	327	19.70	Bayou Onion	0.02800	0.98870	0.639	0.00	0.00	19.400	207.700
WSTLD-1	566	1.80	LA DOTD	0.00011	0.00388	0.003	0.00	0.00	0.000	0.000
WSTLD-1	567	1.70	LaFourche Sch Bld	0.00022	0.00777	0.005	0.00	0.00	0.000	0.000

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	104	Bowie Canal	7.93	7.70	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	204	Pitre Lening	7.89	6.53	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	227	Unnamed	7.89	6.53	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	327	Bayou Onion	7.92	7.01	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	566	LA DOTD	2.00	103.50	0.00	0.00	0.00	0.00	0.00	0.00
WSTLD-2	567	LaFourche Sch Bld	2.00	103.50	0.00	0.00	0.00	0.00	0.00	0.00

ENDATA25

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

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

WSTLD-3         104     Bowie Canal                 0.00      0.00      0.00      1.37
WSTLD-3         204     Pitre Lening                0.00      0.00      0.00      1.35
WSTLD-3         227     Unnamed                     0.00      0.00      0.00      1.35
WSTLD-3         327     Bayou Onion                 0.00      0.00      0.00      2.09
WSTLD-3         566     LA DOTD                     0.00      0.00      0.00     64.50
WSTLD-3         567     LaFourche Sch Bld           0.00      0.00      0.00     64.50
ENDATA26

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

CARD TYPE    CONSTITUENT                    CONCENTRATION

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  2  3  4  8 18 19
NUMBER OF REACHES IN PLOT 2 =   3
PLOT RCH  5  6  7
NUMBER OF REACHES IN PLOT 3 =   9
PLOT RCH  9 10 11 12 13 14 15 16 17
ENDATA30

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


OVERLAY 1 MS_proj.ovl                       Main Stem
OVERLAY 2 HAL_proj.ovl                      Halpin Canal
OVERLAY 3 GB_proj.ovl                       Grand Bayou
ENDATA31



     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
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.....OXYGEN DEPENDENT RATES CONVERGENT IN  28 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 Theriot Canal

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	0.02800	0.00	0.00	8.00	5.99	0.00	0.00	0.00	0.00							
20.70	0.02800	20.88	0.11	7.39	6.15	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
20.60	0.02800	20.88	0.11	7.00	6.31	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
20.50	0.02800	20.88	0.11	6.76	6.46	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
20.40	0.02800	20.88	0.11	6.60	6.61	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
20.30	0.02800	20.88	0.11	6.50	6.75	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
20.20	0.02800	20.88	0.11	6.43	6.89	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
20.10	0.02800	20.88	0.11	6.38	7.02	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
20.00	0.02800	20.88	0.11	6.35	7.15	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
19.90	0.02800	20.88	0.11	6.32	7.27	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
19.80	0.02800	20.88	0.11	6.30	7.39	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
19.70	0.02800	20.88	0.11	6.28	7.51	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
19.60	0.02800	20.88	0.11	6.27	7.62	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
19.50	0.02800	20.88	0.11	6.25	7.72	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
19.40	0.02800	20.88	0.11	6.24	7.83	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
19.30	0.02800	20.88	0.11	6.23	7.93	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
19.20	0.02800	20.88	0.11	6.22	8.03	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
19.10	0.02800	20.88	0.11	6.21	8.12	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
19.00	0.02800	20.88	0.11	6.20	8.21	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
18.90	0.02800	20.88	0.11	6.19	8.30	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
18.80	0.02800	20.88	0.11	6.19	8.38	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
18.70	0.02800	20.88	0.11	6.18	8.46	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
18.60	0.02800	20.88	0.11	6.17	8.54	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
18.50	0.02800	20.88	0.11	6.16	8.62	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
18.40	0.02800	20.88	0.11	6.15	8.69	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
18.30	0.02800	20.88	0.10	6.15	8.76	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
18.20	0.02800	20.88	0.10	6.14	8.83	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
18.10	0.02800	20.88	0.10	6.14	8.90	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
18.00	0.02800	20.88	0.10	6.13	8.96	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
17.90	0.02800	20.88	0.10	6.12	9.02	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
17.80	0.02800	20.88	0.10	6.12	9.08	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
17.70	0.02800	20.88	0.10	6.11	9.14	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
17.60	0.02800	20.88	0.10	6.11	9.19	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
17.50	0.02800	20.88	0.10	6.10	9.25	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
17.40	0.02800	20.88	0.10	6.10	9.30	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
17.30	0.02800	20.88	0.10	6.09	9.35	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
17.20	0.02800	20.88	0.10	6.09	9.40	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
17.10	0.02800	20.88	0.10	6.09	9.45	0.00	0.00	0.00	0.00	1.27	0.07	0.00	0.00	0.00	0.00	1.49
17.00	0.02800	20.88	0.10	6.25	9.64	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
16.90	0.02800	20.88	0.10	6.36	9.83	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
16.80	0.02800	20.88	0.10	6.43	10.02	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
16.70	0.02800	20.88	0.10	6.48	10.20	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
16.60	0.02800	20.88	0.10	6.50	10.37	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99

16.50	0.02800	20.88	0.10	6.52	10.54	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
16.40	0.02800	20.88	0.10	6.52	10.71	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
16.30	0.02800	20.88	0.10	6.52	10.87	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
16.20	0.02800	20.88	0.10	6.52	11.03	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
16.10	0.02800	20.88	0.10	6.51	11.18	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
16.00	0.02800	20.88	0.10	6.50	11.33	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
15.90	0.02800	20.88	0.10	6.49	11.47	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
15.80	0.02800	20.88	0.10	6.48	11.61	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
15.70	0.02800	20.88	0.10	6.47	11.75	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
15.60	0.02800	20.88	0.10	6.46	11.88	0.00	0.00	0.00	0.00	1.07	0.07	0.00	0.00	0.00	0.00	0.99
15.50	0.02800	20.88	0.10	6.02	14.55	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
15.40	0.02800	20.88	0.10	5.96	14.91	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
15.30	0.02800	20.88	0.10	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
15.20	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
15.10	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
15.00	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.90	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.80	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.70	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.60	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.50	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.40	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.30	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.20	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.10	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
14.00	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.90	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.80	0.02800	20.88	0.10	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.70	0.02800	20.88	0.09	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.60	0.02800	20.88	0.09	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.50	0.02800	20.88	0.09	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.40	0.02800	20.88	0.09	5.95	14.97	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.30	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.20	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.10	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
13.00	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.90	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.80	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.70	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.60	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.50	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.40	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.30	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.20	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.10	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
12.00	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
11.90	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
11.80	0.02800	20.88	0.09	5.95	14.96	0.00	0.00	0.00	0.00	0.55	0.07	0.00	0.00	0.00	0.00	0.21
11.70	0.02800	20.88	0.09	5.32	14.07	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.97
11.60	0.02800	20.88	0.09	5.16	13.33	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.97
11.50	0.02800	20.88	0.09	5.18	12.70	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.97
11.40	0.02800	20.88	0.09	5.25	12.17	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.97
11.30	0.02800	20.88	0.09	5.34	11.73	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.97
11.20	0.02800	20.88	0.09	5.43	11.36	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.97
11.10	0.02800	20.88	0.09	5.50	11.04	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.97
11.00	0.02800	20.88	0.09	5.56	10.78	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.97

10.90	0.02800	20.88	0.09	5.62	10.56	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.97
10.80	0.02800	20.88	0.09	5.66	10.38	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.97
10.70	0.02800	20.88	0.10	5.69	10.22	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.97
10.60	0.02800	20.88	0.10	5.72	10.09	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.97
10.50	0.02800	20.88	0.10	5.75	9.98	0.00	0.00	0.00	0.00	0.51	0.07	0.00	0.00	0.00	0.00	0.97
10.40	0.05600	20.88	0.10	6.49	8.89	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
10.30	0.05600	20.88	0.10	6.27	8.94	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
10.20	0.05600	20.88	0.10	6.15	8.98	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
10.10	0.05600	20.88	0.10	6.07	9.02	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
10.00	0.05600	20.88	0.10	6.02	9.05	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
9.90	0.05600	20.88	0.10	5.99	9.08	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
9.80	0.05600	20.88	0.10	5.97	9.11	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
9.70	0.05600	20.88	0.10	5.95	9.14	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
9.60	0.05600	20.88	0.10	5.94	9.16	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
9.50	0.05600	20.88	0.10	5.94	9.18	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
9.40	0.05600	20.88	0.10	5.93	9.20	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
9.30	0.05600	20.88	0.10	5.93	9.22	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
9.20	0.05600	20.88	0.10	5.92	9.24	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
9.10	0.05600	20.88	0.10	5.92	9.25	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
9.00	0.05600	20.88	0.10	5.92	9.27	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
8.90	0.05600	20.88	0.10	5.92	9.28	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
8.80	0.05600	20.88	0.10	5.91	9.29	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
8.70	0.05600	20.88	0.10	5.91	9.30	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
8.60	0.05600	20.88	0.10	5.91	9.31	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
8.50	0.05600	20.88	0.11	5.91	9.32	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
8.40	0.05600	20.88	0.11	5.91	9.33	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
8.30	0.05600	20.88	0.11	5.91	9.33	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
8.20	0.05600	20.88	0.11	5.91	9.34	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
8.10	0.05600	20.88	0.11	5.90	9.35	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
8.00	0.05600	20.88	0.11	5.90	9.35	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
7.90	0.05600	20.88	0.11	5.90	9.36	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
7.80	0.05600	20.88	0.11	5.90	9.36	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
7.70	0.05600	20.88	0.11	5.90	9.37	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
7.60	0.05600	20.88	0.11	5.90	9.37	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
7.50	0.05600	20.88	0.11	5.90	9.37	0.00	0.00	0.00	0.00	0.52	0.07	0.00	0.00	0.00	0.00	0.97
7.40	0.14000	20.88	0.11	5.82	11.16	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
7.30	0.14000	20.88	0.11	5.82	11.05	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
7.20	0.14000	20.88	0.11	5.82	10.95	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
7.10	0.14000	20.88	0.11	5.82	10.85	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
7.00	0.14000	20.88	0.11	5.82	10.75	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
6.90	0.14000	20.88	0.11	5.81	10.66	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
6.80	0.14000	20.88	0.11	5.80	10.57	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
6.70	0.14000	20.88	0.10	5.80	10.49	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
6.60	0.14000	20.88	0.10	5.79	10.40	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
6.50	0.14000	20.88	0.10	5.79	10.33	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
6.40	0.14000	20.88	0.10	5.78	10.25	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
6.30	0.14000	20.88	0.10	5.77	10.18	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
6.20	0.14000	20.88	0.10	5.77	10.11	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
6.10	0.14000	20.88	0.10	5.76	10.05	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
6.00	0.14000	20.88	0.10	5.76	9.98	0.00	0.00	0.00	0.00	0.41	0.07	0.00	0.00	0.00	0.00	0.47
5.90	0.19600	20.88	0.10	5.70	7.14	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01
5.80	0.19600	20.88	0.10	5.64	7.15	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01
5.70	0.19600	20.88	0.10	5.60	7.17	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01
5.60	0.19600	20.88	0.10	5.57	7.18	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01
5.50	0.19600	20.88	0.10	5.55	7.19	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01
5.40	0.19600	20.88	0.10	5.54	7.20	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01

5.30	0.19600	20.88	0.10	5.54	7.20	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01
5.20	0.19600	20.88	0.10	5.54	7.21	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01
5.10	0.19600	20.88	0.10	5.55	7.22	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01
5.00	0.19600	20.88	0.10	5.56	7.23	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01
4.90	0.19600	20.88	0.10	5.57	7.24	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01
4.80	0.19600	20.88	0.10	5.58	7.24	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01
4.70	0.19600	20.88	0.10	5.59	7.25	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01
4.60	0.19600	20.88	0.10	5.60	7.26	0.00	0.00	0.00	0.00	0.38	0.07	0.00	0.00	0.00	0.00	1.01
4.50	0.19600	20.88	0.10	5.54	7.15	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
4.40	0.19600	20.88	0.10	5.50	7.04	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
4.30	0.19600	20.88	0.10	5.47	6.95	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
4.20	0.19600	20.88	0.10	5.45	6.85	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
4.10	0.19600	20.88	0.10	5.44	6.77	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
4.00	0.19600	20.88	0.10	5.44	6.68	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
3.90	0.19600	20.88	0.10	5.44	6.60	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
3.80	0.19600	20.88	0.10	5.45	6.53	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
3.70	0.19600	20.88	0.10	5.46	6.46	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
3.60	0.19600	20.88	0.10	5.47	6.39	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
3.50	0.19600	20.88	0.10	5.48	6.33	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
3.40	0.19600	20.88	0.10	5.49	6.27	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
3.30	0.19600	20.88	0.10	5.50	6.21	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
3.20	0.19600	20.88	0.10	5.51	6.15	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
3.10	0.19600	20.88	0.10	5.53	6.10	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
3.00	0.19600	20.88	0.10	5.54	6.05	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
2.90	0.19600	20.88	0.10	5.55	6.01	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
2.80	0.19600	20.88	0.10	5.56	5.96	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
2.70	0.19600	20.88	0.10	5.57	5.92	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
2.60	0.19600	20.88	0.10	5.59	5.88	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
2.50	0.19600	20.88	0.10	5.60	5.84	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
2.40	0.19600	20.88	0.10	5.61	5.81	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
2.30	0.19600	20.88	0.10	5.62	5.77	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
2.20	0.19600	20.88	0.10	5.63	5.74	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
2.10	0.19600	20.88	0.10	5.63	5.71	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
2.00	0.19600	20.88	0.10	5.64	5.68	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
1.90	0.19600	20.88	0.10	5.65	5.66	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
1.80	0.19600	20.88	0.10	5.66	5.63	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
1.70	0.19611	20.88	0.10	5.66	5.66	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
1.60	0.19633	20.88	0.10	5.65	5.73	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
1.50	0.19633	20.88	0.10	5.65	5.70	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
1.40	0.19633	20.88	0.10	5.65	5.68	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
1.30	0.19633	20.88	0.10	5.65	5.65	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
1.20	0.19633	20.88	0.10	5.66	5.62	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
1.10	0.19633	20.88	0.10	5.66	5.60	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
1.00	0.19633	20.88	0.10	5.67	5.58	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
0.90	0.19633	20.88	0.10	5.67	5.55	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
0.80	0.19633	20.88	0.10	5.68	5.53	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
0.70	0.19633	20.88	0.10	5.68	5.51	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
0.60	0.19633	20.88	0.10	5.69	5.50	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
0.50	0.19633	20.88	0.10	5.69	5.48	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
0.40	0.19633	20.88	0.10	5.70	5.46	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
0.30	0.19633	20.88	0.10	5.70	5.44	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
0.20	0.19633	20.88	0.10	5.71	5.43	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
0.10	0.19633	20.88	0.10	5.71	5.42	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15
0.00	0.19633	20.88	0.10	5.72	5.40	0.00	0.00	0.00	0.00	0.35	0.07	0.00	0.00	0.00	0.00	1.15

CONDENSED CAPSULE SUMMARY FOR Halpin Canal

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	0.00	0.00	7.95	6.59	0.00	0.00	0.00	0.00							
15.40	0.02800	20.88	0.12	7.11	6.55	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
15.30	0.02800	20.88	0.12	6.61	6.51	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
15.20	0.02800	20.88	0.12	6.31	6.48	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
15.10	0.02800	20.88	0.12	6.13	6.44	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
15.00	0.02800	20.88	0.12	6.02	6.41	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
14.90	0.02800	20.88	0.12	5.96	6.38	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
14.80	0.02800	20.88	0.12	5.92	6.35	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
14.70	0.02800	20.88	0.12	5.90	6.33	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
14.60	0.02800	20.88	0.12	5.89	6.30	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
14.50	0.02800	20.88	0.12	5.88	6.27	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
14.40	0.02800	20.88	0.12	5.88	6.25	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
14.30	0.02800	20.88	0.12	5.88	6.23	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
14.20	0.02800	20.88	0.12	5.88	6.21	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
14.10	0.02800	20.88	0.12	5.88	6.19	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
14.00	0.02800	20.88	0.12	5.88	6.17	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
13.90	0.02800	20.88	0.12	5.88	6.15	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
13.80	0.02800	20.88	0.12	5.88	6.13	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
13.70	0.02800	20.88	0.12	5.88	6.12	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
13.60	0.02800	20.88	0.12	5.88	6.10	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
13.50	0.02800	20.88	0.12	5.89	6.09	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
13.40	0.02800	20.88	0.12	5.89	6.07	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
13.30	0.02800	20.88	0.12	5.89	6.06	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
13.20	0.02800	20.88	0.12	5.89	6.05	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
13.10	0.02800	20.88	0.12	5.89	6.04	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
13.00	0.02800	20.88	0.12	5.89	6.02	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
12.90	0.02800	20.88	0.12	5.89	6.01	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
12.80	0.02800	20.88	0.12	5.89	6.00	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
12.70	0.02800	20.88	0.12	5.89	5.99	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
12.60	0.02800	20.88	0.12	5.89	5.98	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
12.50	0.02800	20.88	0.12	5.89	5.98	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
12.40	0.02800	20.88	0.12	5.90	5.97	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
12.30	0.02800	20.88	0.12	5.90	5.96	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
12.20	0.02800	20.88	0.12	5.90	5.95	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
12.10	0.02800	20.88	0.12	5.90	5.94	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
12.00	0.02800	20.88	0.12	5.90	5.94	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
11.90	0.02800	20.88	0.12	5.90	5.93	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
11.80	0.02800	20.88	0.12	5.90	5.93	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
11.70	0.02800	20.88	0.12	5.90	5.92	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
11.60	0.02800	20.88	0.12	5.90	5.91	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
11.50	0.02800	20.88	0.12	5.90	5.91	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
11.40	0.02800	20.88	0.12	5.90	5.90	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
11.30	0.02800	20.88	0.12	5.90	5.90	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
11.20	0.02800	20.88	0.12	5.90	5.89	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
11.10	0.02800	20.88	0.12	5.90	5.89	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
11.00	0.02800	20.88	0.12	5.90	5.89	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
10.90	0.02800	20.88	0.12	5.90	5.88	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
10.80	0.02800	20.88	0.12	5.90	5.88	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
10.70	0.02800	20.88	0.12	5.90	5.88	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
10.60	0.02800	20.88	0.12	5.90	5.87	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69

10.50	0.02800	20.88	0.12	5.90	5.87	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
10.40	0.02800	20.88	0.12	5.90	5.87	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
10.30	0.02800	20.88	0.12	5.90	5.86	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
10.20	0.02800	20.88	0.12	5.90	5.86	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
10.10	0.02800	20.88	0.12	5.90	5.86	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
10.00	0.02800	20.88	0.12	5.90	5.86	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
9.90	0.02800	20.88	0.12	5.90	5.85	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
9.80	0.02800	20.88	0.12	5.91	5.85	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
9.70	0.02800	20.88	0.12	5.91	5.85	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
9.60	0.02800	20.88	0.12	5.91	5.85	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
9.50	0.02800	20.88	0.12	5.91	5.85	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
9.40	0.02800	20.88	0.12	5.91	5.84	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
9.30	0.02800	20.88	0.12	5.91	5.84	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
9.20	0.02800	20.88	0.12	5.91	5.84	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
9.10	0.02800	20.88	0.12	5.91	5.84	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
9.00	0.02800	20.88	0.12	5.91	5.84	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
8.90	0.02800	20.88	0.12	5.91	5.84	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
8.80	0.02800	20.88	0.12	5.91	5.83	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
8.70	0.02800	20.88	0.12	5.91	5.83	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
8.60	0.02800	20.88	0.12	5.91	5.83	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
8.50	0.02800	20.88	0.12	5.91	5.83	0.00	0.00	0.00	0.00	0.92	0.07	0.00	0.00	0.00	0.00	1.69
8.40	0.05600	20.88	0.12	6.66	6.17	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	1.69
8.30	0.05600	20.88	0.12	6.48	6.16	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	1.69
8.20	0.05600	20.88	0.12	6.35	6.15	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	1.69
8.10	0.05600	20.88	0.12	6.25	6.14	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	1.69
8.00	0.05600	20.88	0.12	6.18	6.14	0.00	0.00	0.00	0.00	0.95	0.07	0.00	0.00	0.00	0.00	1.69
7.90	0.05600	20.88	0.12	6.43	6.77	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
7.80	0.05600	20.88	0.12	6.59	7.39	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
7.70	0.05600	20.88	0.12	6.70	7.98	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
7.60	0.05600	20.88	0.12	6.76	8.55	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
7.50	0.05600	20.88	0.12	6.78	9.10	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
7.40	0.05600	20.88	0.12	6.79	9.63	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
7.30	0.05600	20.88	0.12	6.77	10.14	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
7.20	0.05600	20.88	0.12	6.75	10.63	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
7.10	0.05600	20.88	0.12	6.72	11.11	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
7.00	0.05600	20.88	0.12	6.68	11.56	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
6.90	0.05600	20.88	0.12	6.64	12.00	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
6.80	0.05600	20.88	0.12	6.59	12.43	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
6.70	0.05600	20.88	0.12	6.55	12.84	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
6.60	0.05600	20.88	0.12	6.50	13.23	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
6.50	0.05600	20.88	0.12	6.45	13.61	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
6.40	0.05600	20.88	0.12	6.41	13.98	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
6.30	0.05600	20.88	0.12	6.37	14.33	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
6.20	0.05600	20.88	0.12	6.32	14.67	0.00	0.00	0.00	0.00	0.67	0.07	0.00	0.00	0.00	0.00	0.60
6.10	0.08400	20.88	0.12	6.79	12.25	0.00	0.00	0.00	0.00	0.69	0.07	0.00	0.00	0.00	0.00	0.60
6.00	0.08400	20.88	0.12	6.73	12.53	0.00	0.00	0.00	0.00	0.69	0.07	0.00	0.00	0.00	0.00	0.60
5.90	0.08400	20.88	0.12	6.68	12.80	0.00	0.00	0.00	0.00	0.69	0.07	0.00	0.00	0.00	0.00	0.60
5.80	0.08400	20.88	0.12	6.64	13.07	0.00	0.00	0.00	0.00	0.69	0.07	0.00	0.00	0.00	0.00	0.60
5.70	0.08400	20.88	0.12	6.45	13.05	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
5.60	0.08400	20.88	0.12	6.30	13.03	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
5.50	0.08400	20.88	0.12	6.18	13.01	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
5.40	0.08400	20.88	0.12	6.09	12.99	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
5.30	0.08400	20.88	0.12	6.01	12.97	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
5.20	0.08400	20.88	0.12	5.95	12.96	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
5.10	0.08400	20.88	0.12	5.90	12.94	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
5.00	0.08400	20.88	0.12	5.86	12.93	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79

4.90	0.08400	20.88	0.12	5.83	12.91	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
4.80	0.08400	20.88	0.12	5.81	12.90	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
4.70	0.08400	20.88	0.12	5.79	12.88	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
4.60	0.08400	20.88	0.12	5.77	12.87	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
4.50	0.08400	20.88	0.12	5.76	12.85	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
4.40	0.08400	20.88	0.12	5.75	12.84	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
4.30	0.08400	20.88	0.12	5.74	12.83	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
4.20	0.08400	20.88	0.12	5.74	12.82	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
4.10	0.08400	20.88	0.12	5.74	12.80	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
4.00	0.08400	20.88	0.12	5.73	12.79	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
3.90	0.08400	20.88	0.12	5.73	12.78	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
3.80	0.08400	20.88	0.12	5.73	12.77	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
3.70	0.08400	20.88	0.12	5.73	12.76	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
3.60	0.08400	20.88	0.12	5.73	12.75	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
3.50	0.08400	20.88	0.12	5.73	12.74	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
3.40	0.08400	20.88	0.12	5.73	12.73	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
3.30	0.08400	20.88	0.12	5.73	12.72	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
3.20	0.08400	20.88	0.12	5.73	12.71	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
3.10	0.08400	20.88	0.12	5.73	12.70	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
3.00	0.08400	20.88	0.12	5.73	12.70	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
2.90	0.08400	20.88	0.12	5.73	12.69	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
2.80	0.08400	20.88	0.12	5.74	12.68	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
2.70	0.08400	20.88	0.12	5.74	12.67	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
2.60	0.08400	20.88	0.12	5.74	12.67	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
2.50	0.08400	20.88	0.12	5.74	12.66	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
2.40	0.08400	20.88	0.12	5.74	12.65	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
2.30	0.08400	20.88	0.12	5.74	12.65	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
2.20	0.08400	20.88	0.12	5.74	12.64	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
2.10	0.08400	20.88	0.12	5.74	12.63	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
2.00	0.08400	20.88	0.12	5.74	12.63	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
1.90	0.08400	20.88	0.11	5.75	12.62	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
1.80	0.08400	20.88	0.11	5.75	12.62	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
1.70	0.08400	20.88	0.11	5.75	12.61	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
1.60	0.08400	20.88	0.11	5.75	12.60	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
1.50	0.08400	20.88	0.11	5.75	12.60	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
1.40	0.08400	20.88	0.11	5.75	12.59	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
1.30	0.08400	20.88	0.11	5.75	12.59	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
1.20	0.08400	20.88	0.11	5.75	12.58	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
1.10	0.08400	20.88	0.11	5.75	12.58	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
1.00	0.08400	20.88	0.11	5.75	12.58	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
0.90	0.08400	20.88	0.11	5.75	12.57	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
0.80	0.08400	20.88	0.11	5.75	12.57	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
0.70	0.08400	20.88	0.11	5.76	12.56	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
0.60	0.08400	20.88	0.11	5.76	12.56	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
0.50	0.08400	20.88	0.11	5.76	12.56	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
0.40	0.08400	20.88	0.11	5.76	12.55	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
0.30	0.08400	20.88	0.11	5.76	12.55	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
0.20	0.08400	20.88	0.11	5.76	12.55	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
0.10	0.08400	20.88	0.11	5.76	12.54	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79
0.00	0.08400	20.88	0.11	5.76	12.54	0.00	0.00	0.00	0.00	0.53	0.07	0.00	0.00	0.00	0.00	0.79

CONDENSED CAPSULE SUMMARY FOR Grand Bayou

DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORGN	NH3	CHLA	REAER RATE	BOD1 DECA	BOD1 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD

km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
HDWTR	0.02800	0.00	0.00	7.93	6.97	0.00	0.00	0.00	0.00							
21.90	0.02800	20.88	0.08	7.01	6.98	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
21.80	0.02800	20.88	0.08	6.44	6.99	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
21.70	0.02800	20.88	0.08	6.08	7.00	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
21.60	0.02800	20.88	0.08	5.86	7.00	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
21.50	0.02800	20.88	0.08	5.73	7.01	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
21.40	0.02800	20.88	0.08	5.65	7.02	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
21.30	0.02800	20.88	0.08	5.60	7.03	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
21.20	0.02800	20.88	0.08	5.57	7.03	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
21.10	0.02800	20.88	0.08	5.55	7.04	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
21.00	0.02800	20.88	0.08	5.55	7.04	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
20.90	0.02800	20.88	0.08	5.54	7.05	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
20.80	0.02800	20.88	0.08	5.54	7.06	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
20.70	0.02800	20.88	0.08	5.54	7.06	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
20.60	0.02800	20.88	0.08	5.54	7.07	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
20.50	0.02800	20.88	0.08	5.54	7.07	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
20.40	0.02800	20.88	0.08	5.54	7.08	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
20.30	0.02800	20.88	0.08	5.54	7.08	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
20.20	0.02800	20.88	0.08	5.54	7.09	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
20.10	0.02800	20.88	0.08	5.54	7.09	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
20.00	0.02800	20.88	0.08	5.54	7.09	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
19.90	0.02800	20.88	0.08	5.54	7.10	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
19.80	0.02800	20.88	0.08	5.54	7.10	0.00	0.00	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.00	1.36
19.70	0.02800	20.88	0.08	5.16	6.75	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.60
19.60	0.05600	20.88	0.08	5.95	6.71	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
19.50	0.05600	20.88	0.08	5.60	6.54	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
19.40	0.05600	20.88	0.08	5.41	6.39	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
19.30	0.05600	20.88	0.08	5.30	6.24	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
19.20	0.05600	20.88	0.08	5.26	6.10	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
19.10	0.05600	20.88	0.08	5.24	5.96	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
19.00	0.05600	20.88	0.08	5.25	5.83	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
18.90	0.05600	20.88	0.08	5.26	5.71	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
18.80	0.05600	20.88	0.08	5.28	5.60	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
18.70	0.05600	20.88	0.08	5.30	5.49	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
18.60	0.05600	20.88	0.08	5.32	5.39	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
18.50	0.05600	20.88	0.08	5.34	5.29	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
18.40	0.05600	20.88	0.08	5.36	5.19	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
18.30	0.05600	20.88	0.08	5.38	5.11	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
18.20	0.05600	20.88	0.08	5.39	5.02	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
18.10	0.05600	20.88	0.08	5.41	4.94	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
18.00	0.05600	20.88	0.08	5.42	4.87	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
17.90	0.05600	20.88	0.08	5.43	4.79	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
17.80	0.05600	20.88	0.08	5.44	4.73	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
17.70	0.05600	20.88	0.08	5.45	4.66	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
17.60	0.05600	20.88	0.08	5.46	4.60	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
17.50	0.05600	20.88	0.08	5.47	4.54	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
17.40	0.05600	20.88	0.08	5.48	4.48	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
17.30	0.05600	20.88	0.08	5.48	4.43	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.00	0.00	0.00	1.60
17.20	0.05600	20.88	0.08	5.45	4.28	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
17.10	0.05600	20.88	0.08	5.42	4.13	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
17.00	0.05600	20.88	0.08	5.40	3.99	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
16.90	0.05600	20.88	0.08	5.38	3.86	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
16.80	0.05600	20.88	0.08	5.37	3.73	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
16.70	0.05600	20.88	0.08	5.36	3.60	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90

16.60	0.05600	20.88	0.08	5.36	3.48	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
16.50	0.05600	20.88	0.08	5.36	3.36	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
16.40	0.05600	20.88	0.08	5.36	3.24	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
16.30	0.05600	20.88	0.08	5.36	3.13	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
16.20	0.05600	20.88	0.08	5.36	3.03	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
16.10	0.05600	20.88	0.08	5.36	2.92	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
16.00	0.05600	20.88	0.08	5.37	2.82	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
15.90	0.05600	20.88	0.08	5.37	2.73	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
15.80	0.05600	20.88	0.08	5.38	2.64	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
15.70	0.05600	20.88	0.08	5.38	2.55	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
15.60	0.05600	20.88	0.08	5.39	2.46	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
15.50	0.05600	20.88	0.08	5.40	2.37	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
15.40	0.05600	20.88	0.08	5.40	2.29	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
15.30	0.05600	20.88	0.08	5.41	2.22	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
15.20	0.05600	20.88	0.08	5.41	2.14	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
15.10	0.05600	20.88	0.08	5.42	2.07	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
15.00	0.05600	20.88	0.08	5.43	2.00	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
14.90	0.05600	20.88	0.08	5.43	1.93	0.00	0.00	0.00	0.00	0.63	0.05	0.00	0.00	0.00	0.00	1.90
14.80	0.05600	20.88	0.08	5.42	1.87	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
14.70	0.05600	20.88	0.08	5.41	1.82	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
14.60	0.05600	20.88	0.08	5.40	1.77	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
14.50	0.05600	20.88	0.08	5.41	1.72	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
14.40	0.05600	20.88	0.08	5.41	1.67	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
14.30	0.05600	20.88	0.08	5.41	1.62	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
14.20	0.05600	20.88	0.08	5.42	1.57	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
14.10	0.05600	20.88	0.08	5.43	1.53	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
14.00	0.05600	20.88	0.08	5.43	1.48	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
13.90	0.05600	20.88	0.08	5.44	1.44	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
13.80	0.05600	20.88	0.08	5.45	1.40	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
13.70	0.05600	20.88	0.08	5.45	1.36	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
13.60	0.05600	20.88	0.08	5.46	1.32	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
13.50	0.05600	20.88	0.08	5.46	1.28	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
13.40	0.05600	20.88	0.08	5.47	1.25	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
13.30	0.05600	20.88	0.08	5.47	1.21	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
13.20	0.05600	20.88	0.08	5.48	1.18	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
13.10	0.05600	20.88	0.08	5.48	1.14	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
13.00	0.05600	20.88	0.08	5.49	1.11	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
12.90	0.05600	20.88	0.08	5.49	1.08	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
12.80	0.05600	20.88	0.08	5.49	1.05	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
12.70	0.05600	20.88	0.08	5.50	1.02	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
12.60	0.05600	20.88	0.08	5.50	0.99	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
12.50	0.05600	20.88	0.08	5.50	0.96	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
12.40	0.05600	20.88	0.08	5.51	0.93	0.00	0.00	0.00	0.00	0.57	0.05	0.00	0.00	0.00	0.00	1.93
12.30	0.05600	20.88	0.08	5.56	0.89	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
12.20	0.05600	20.88	0.08	5.59	0.86	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
12.10	0.05600	20.88	0.08	5.61	0.82	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
12.00	0.05600	20.88	0.08	5.62	0.79	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
11.90	0.05600	20.88	0.08	5.62	0.76	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
11.80	0.05600	20.88	0.08	5.63	0.73	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
11.70	0.05600	20.88	0.08	5.63	0.70	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
11.60	0.05600	20.88	0.08	5.63	0.67	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
11.50	0.05600	20.88	0.08	5.63	0.64	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
11.40	0.05600	20.88	0.08	5.63	0.62	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
11.30	0.05600	20.88	0.08	5.63	0.59	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
11.20	0.05600	20.88	0.08	5.63	0.57	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
11.10	0.05600	20.88	0.08	5.63	0.54	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70

11.00	0.05600	20.88	0.08	5.63	0.52	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
10.90	0.05600	20.88	0.08	5.63	0.50	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
10.80	0.05600	20.88	0.08	5.63	0.48	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
10.70	0.05600	20.88	0.08	5.63	0.46	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
10.60	0.05600	20.88	0.08	5.63	0.44	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
10.50	0.05600	20.88	0.08	5.63	0.42	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.00	0.00	1.70
10.40	0.05600	20.88	0.08	5.76	0.40	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
10.30	0.05600	20.88	0.08	5.82	0.38	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
10.20	0.05600	20.88	0.08	5.84	0.35	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
10.10	0.05600	20.88	0.08	5.84	0.33	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
10.00	0.05600	20.88	0.08	5.83	0.31	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
9.90	0.05600	20.88	0.08	5.83	0.29	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
9.80	0.05600	20.88	0.08	5.82	0.28	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
9.70	0.05600	20.88	0.08	5.81	0.26	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
9.60	0.05600	20.88	0.08	5.80	0.25	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
9.50	0.05600	20.88	0.08	5.80	0.23	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
9.40	0.05600	20.88	0.08	5.79	0.22	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
9.30	0.05600	20.88	0.08	5.79	0.20	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
9.20	0.05600	20.88	0.08	5.79	0.19	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
9.10	0.05600	20.88	0.08	5.79	0.18	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
9.00	0.05600	20.88	0.08	5.79	0.17	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
8.90	0.05600	20.88	0.08	5.79	0.16	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
8.80	0.05600	20.88	0.08	5.79	0.15	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
8.70	0.05600	20.88	0.08	5.79	0.14	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
8.60	0.05600	20.88	0.08	5.79	0.13	0.00	0.00	0.00	0.00	0.44	0.05	0.00	0.00	0.00	0.00	1.28
8.50	0.05600	20.88	0.08	5.71	0.13	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
8.40	0.05600	20.88	0.08	5.67	0.12	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
8.30	0.05600	20.88	0.08	5.66	0.11	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
8.20	0.05600	20.88	0.08	5.66	0.11	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
8.10	0.05600	20.88	0.08	5.66	0.10	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
8.00	0.05600	20.88	0.08	5.67	0.10	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
7.90	0.05600	20.88	0.08	5.68	0.09	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
7.80	0.05600	20.88	0.08	5.69	0.08	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
7.70	0.05600	20.88	0.08	5.70	0.08	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
7.60	0.05600	20.88	0.08	5.71	0.08	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
7.50	0.05600	20.88	0.08	5.71	0.07	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
7.40	0.05600	20.88	0.08	5.72	0.07	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
7.30	0.05600	20.88	0.08	5.72	0.06	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
7.20	0.05600	20.88	0.08	5.72	0.06	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
7.10	0.05600	20.88	0.08	5.73	0.06	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
7.00	0.05600	20.88	0.08	5.73	0.05	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
6.90	0.05600	20.88	0.08	5.73	0.05	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
6.80	0.05600	20.88	0.08	5.73	0.05	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
6.70	0.05600	20.88	0.08	5.73	0.05	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
6.60	0.05600	20.88	0.08	5.73	0.04	0.00	0.00	0.00	0.00	0.42	0.05	0.00	0.00	0.00	0.00	1.49
6.50	0.05600	20.88	0.08	5.77	0.04	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
6.40	0.05600	20.88	0.08	5.79	0.04	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
6.30	0.05600	20.88	0.08	5.79	0.04	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
6.20	0.05600	20.88	0.08	5.79	0.03	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
6.10	0.05600	20.88	0.08	5.79	0.03	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
6.00	0.05600	20.88	0.08	5.78	0.03	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
5.90	0.05600	20.88	0.08	5.78	0.03	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
5.80	0.05600	20.88	0.08	5.77	0.03	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
5.70	0.05600	20.88	0.08	5.77	0.03	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
5.60	0.05600	20.88	0.08	5.77	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
5.50	0.05600	20.88	0.08	5.76	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44

5.40	0.05600	20.88	0.08	5.76	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
5.30	0.05600	20.88	0.08	5.76	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
5.20	0.05600	20.88	0.08	5.76	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
5.10	0.05600	20.88	0.08	5.76	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
5.00	0.05600	20.88	0.08	5.76	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
4.90	0.05600	20.88	0.08	5.76	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
4.80	0.05600	20.88	0.08	5.76	0.02	0.00	0.00	0.00	0.00	0.45	0.05	0.00	0.00	0.00	0.00	1.44
4.70	0.05600	20.88	0.08	5.91	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
4.60	0.05600	20.88	0.08	5.98	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
4.50	0.05600	20.88	0.08	5.99	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
4.40	0.05600	20.88	0.08	5.98	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
4.30	0.05600	20.88	0.08	5.97	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
4.20	0.05600	20.88	0.08	5.95	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
4.10	0.05600	20.88	0.08	5.93	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
4.00	0.05600	20.88	0.08	5.92	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
3.90	0.05600	20.88	0.08	5.91	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
3.80	0.05600	20.88	0.08	5.90	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
3.70	0.05600	20.88	0.08	5.89	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
3.60	0.05600	20.88	0.09	5.89	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
3.50	0.05600	20.88	0.09	5.88	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
3.40	0.05600	20.88	0.09	5.88	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
3.30	0.05600	20.88	0.09	5.88	0.01	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
3.20	0.05600	20.88	0.09	5.88	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
3.10	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
3.00	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
2.90	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
2.80	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
2.70	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
2.60	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
2.50	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
2.40	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
2.30	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
2.20	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
2.10	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
2.00	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
1.90	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
1.80	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
1.70	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
1.60	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
1.50	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
1.40	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
1.30	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
1.20	0.05600	20.88	0.09	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
1.10	0.05600	20.88	0.10	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
1.00	0.05600	20.88	0.10	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
0.90	0.05600	20.88	0.10	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
0.80	0.05600	20.88	0.10	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
0.70	0.05600	20.88	0.10	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
0.60	0.05600	20.88	0.10	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
0.50	0.05600	20.88	0.10	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
0.40	0.05600	20.88	0.10	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
0.30	0.05600	20.88	0.10	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
0.20	0.05600	20.88	0.10	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
0.10	0.05600	20.88	0.10	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70
0.00	0.05600	20.88	0.10	5.87	0.00	0.00	0.00	0.00	0.00	0.34	0.05	0.00	0.00	0.00	0.00	0.70

********** 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	0.00	0.00	17.50	288.40	8.00	5.99	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96

********** 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	20.80	20.70	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
2	20.70	20.60	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
3	20.60	20.50	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
4	20.50	20.40	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
5	20.40	20.30	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
6	20.30	20.20	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
7	20.20	20.10	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
8	20.10	20.00	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
9	20.00	19.90	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
10	19.90	19.80	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
11	19.80	19.70	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
12	19.70	19.60	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
13	19.60	19.50	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
14	19.50	19.40	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
15	19.40	19.30	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
16	19.30	19.20	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
17	19.20	19.10	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
18	19.10	19.00	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
19	19.00	18.90	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
20	18.90	18.80	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
21	18.80	18.70	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
22	18.70	18.60	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
23	18.60	18.50	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
24	18.50	18.40	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
25	18.40	18.30	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
26	18.30	18.20	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
27	18.20	18.10	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
28	18.10	18.00	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
29	18.00	17.90	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
30	17.90	17.80	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
31	17.80	17.70	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
32	17.70	17.60	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
33	17.60	17.50	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
34	17.50	17.40	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
35	17.40	17.30	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
36	17.30	17.20	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
37	17.20	17.10	0.02800	0.0	0.00239	0.48	0.56	20.90	1170.40	2090.00	11.70	0.00	0.000	0.000	0.002
TOT						17.90			43304.79	77330.00					
AVG					0.00239		0.56	20.90			11.70				
CUM						17.90									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	20.700	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
2	20.600	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
3	20.500	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
4	20.400	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
5	20.300	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
6	20.200	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
7	20.100	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
8	20.000	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
9	19.900	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
10	19.800	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
11	19.700	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
12	19.600	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
13	19.500	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
14	19.400	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
15	19.300	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
16	19.200	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
17	19.100	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
18	19.000	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
19	18.900	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
20	18.800	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
21	18.700	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
22	18.600	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
23	18.500	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
24	18.400	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
25	18.300	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
26	18.200	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
27	18.100	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
28	18.000	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
29	17.900	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
30	17.800	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
31	17.700	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
32	17.600	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
33	17.500	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
34	17.400	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
35	17.300	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
36	17.200	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
37	17.100	8.93	1.27	0.07	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			1.25	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	0.10	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	20.700	20.88	0.11	17.50	288.40	7.39	6.15	0.00	6.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.05
2	20.600	20.88	0.11	17.50	288.40	7.00	6.31	0.00	6.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
3	20.500	20.88	0.11	17.50	288.40	6.76	6.46	0.00	6.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.22
4	20.400	20.88	0.11	17.50	288.40	6.60	6.61	0.00	6.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
5	20.300	20.88	0.11	17.50	288.40	6.50	6.75	0.00	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
6	20.200	20.88	0.11	17.50	288.40	6.43	6.89	0.00	6.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
7	20.100	20.88	0.11	17.50	288.40	6.38	7.02	0.00	7.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.51
8	20.000	20.88	0.11	17.50	288.40	6.35	7.15	0.00	7.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.58
9	19.900	20.88	0.11	17.50	288.40	6.32	7.27	0.00	7.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.64
10	19.800	20.88	0.11	17.50	288.40	6.30	7.39	0.00	7.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
11	19.700	20.88	0.11	17.50	288.40	6.28	7.51	0.00	7.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
12	19.600	20.88	0.11	17.50	288.40	6.27	7.62	0.00	7.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
13	19.500	20.88	0.11	17.50	288.40	6.25	7.72	0.00	7.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.85
14	19.400	20.88	0.11	17.50	288.40	6.24	7.83	0.00	7.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.90
15	19.300	20.88	0.11	17.50	288.40	6.23	7.93	0.00	7.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.95
16	19.200	20.88	0.11	17.50	288.40	6.22	8.03	0.00	8.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.99
17	19.100	20.88	0.11	17.50	288.40	6.21	8.12	0.00	8.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.03
18	19.000	20.88	0.11	17.50	288.40	6.20	8.21	0.00	8.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.07
19	18.900	20.88	0.11	17.50	288.40	6.19	8.30	0.00	8.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.11
20	18.800	20.88	0.11	17.50	288.40	6.19	8.38	0.00	8.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.14
21	18.700	20.88	0.11	17.50	288.40	6.18	8.46	0.00	8.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.18
22	18.600	20.88	0.11	17.50	288.40	6.17	8.54	0.00	8.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.21
23	18.500	20.88	0.11	17.50	288.40	6.16	8.62	0.00	8.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.24
24	18.400	20.88	0.11	17.50	288.40	6.15	8.69	0.00	8.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.27
25	18.300	20.88	0.10	17.50	288.40	6.15	8.76	0.00	8.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.29
26	18.200	20.88	0.10	17.50	288.40	6.14	8.83	0.00	8.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.32
27	18.100	20.88	0.10	17.50	288.40	6.14	8.90	0.00	8.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.35
28	18.000	20.88	0.10	17.50	288.40	6.13	8.96	0.00	8.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.37
29	17.900	20.88	0.10	17.50	288.40	6.12	9.02	0.00	9.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.39
30	17.800	20.88	0.10	17.50	288.40	6.12	9.08	0.00	9.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.41
31	17.700	20.88	0.10	17.50	288.40	6.11	9.14	0.00	9.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.43
32	17.600	20.88	0.10	17.50	288.40	6.11	9.19	0.00	9.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.45
33	17.500	20.88	0.10	17.50	288.40	6.10	9.25	0.00	9.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.47
34	17.400	20.88	0.10	17.50	288.40	6.10	9.30	0.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.49
35	17.300	20.88	0.10	17.50	288.40	6.09	9.35	0.00	9.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.50
36	17.200	20.88	0.10	17.50	288.40	6.09	9.40	0.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
37	17.100	20.88	0.10	17.50	288.40	6.09	9.45	0.00	9.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.54

********** 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
38	UPR RCH	0.02800	20.88	0.10	17.50	288.40	6.09	9.45	0.00	9.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.54

********** 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
38	17.10	17.00	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
39	17.00	16.90	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
40	16.90	16.80	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
41	16.80	16.70	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
42	16.70	16.60	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
43	16.60	16.50	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
44	16.50	16.40	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
45	16.40	16.30	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
46	16.30	16.20	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
47	16.20	16.10	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
48	16.10	16.00	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
49	16.00	15.90	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
50	15.90	15.80	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
51	15.80	15.70	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
52	15.70	15.60	0.02800	0.0	0.00299	0.39	0.67	14.00	938.00	1400.00	9.38	0.00	0.000	0.000	0.003
TOT						5.82			14070.00	21000.00					
AVG					0.00299		0.67	14.00			9.38				
CUM						23.72									

********** 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
38	17.000	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
39	16.900	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
40	16.800	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
41	16.700	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
42	16.600	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
43	16.500	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
44	16.400	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
45	16.300	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
46	16.200	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
47	16.100	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
48	16.000	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

49	15.900	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
50	15.800	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
51	15.700	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
52	15.600	8.93	1.07	0.07	0.00	0.00	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			1.05	0.07	0.00	0.00	0.00	0.00	0.00	0.94			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
38	17.000	20.88	0.10	17.50	288.40	6.25	9.64	0.00	9.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.59
39	16.900	20.88	0.10	17.50	288.40	6.36	9.83	0.00	9.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.65
40	16.800	20.88	0.10	17.50	288.40	6.43	10.02	0.00	10.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.70
41	16.700	20.88	0.10	17.50	288.40	6.48	10.20	0.00	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.76
42	16.600	20.88	0.10	17.50	288.40	6.50	10.37	0.00	10.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.81
43	16.500	20.88	0.10	17.50	288.40	6.52	10.54	0.00	10.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
44	16.400	20.88	0.10	17.50	288.40	6.52	10.71	0.00	10.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.90
45	16.300	20.88	0.10	17.50	288.40	6.52	10.87	0.00	10.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.94
46	16.200	20.88	0.10	17.50	288.40	6.52	11.03	0.00	11.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.99
47	16.100	20.88	0.10	17.50	288.40	6.51	11.18	0.00	11.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.03
48	16.000	20.88	0.10	17.50	288.40	6.50	11.33	0.00	11.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.07
49	15.900	20.88	0.10	17.50	288.40	6.49	11.47	0.00	11.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.10
50	15.800	20.88	0.10	17.50	288.40	6.48	11.61	0.00	11.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.14
51	15.700	20.88	0.10	17.50	288.40	6.47	11.75	0.00	11.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.18
52	15.600	20.88	0.10	17.50	288.40	6.46	11.88	0.00	11.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.21

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 3 Lake Boeuf 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
53	UPR RCH	0.02800	20.88	0.10	17.50	288.40	6.46	11.88	0.00	11.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.21

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
53	15.60	15.50	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
54	15.50	15.40	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
55	15.40	15.30	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
56	15.30	15.20	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
57	15.20	15.10	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
58	15.10	15.00	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
59	15.00	14.90	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
60	14.90	14.80	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
61	14.80	14.70	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
62	14.70	14.60	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
63	14.60	14.50	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
64	14.50	14.40	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
65	14.40	14.30	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
66	14.30	14.20	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
67	14.20	14.10	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
68	14.10	14.00	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
69	14.00	13.90	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
70	13.90	13.80	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
71	13.80	13.70	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
72	13.70	13.60	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
73	13.60	13.50	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
74	13.50	13.40	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
75	13.40	13.30	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
76	13.30	13.20	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
77	13.20	13.10	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
78	13.10	13.00	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
79	13.00	12.90	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
80	12.90	12.80	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
81	12.80	12.70	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
82	12.70	12.60	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
83	12.60	12.50	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
84	12.50	12.40	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
85	12.40	12.30	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
86	12.30	12.20	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
87	12.20	12.10	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
88	12.10	12.00	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
89	12.00	11.90	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
90	11.90	11.80	0.02800	0.0	0.00001	88.15	1.22	1748.00	213256.00	174800.00	2132.56	0.00	0.000	0.000	0.000
TOT						3349.75			8103728.00	6642400.00					
AVG					0.00001		1.22	1748.00			2132.56				
CUM						3373.47									

********** 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
53	15.500	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
54	15.400	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
55	15.300	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
56	15.200	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
57	15.100	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
58	15.000	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
59	14.900	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
60	14.800	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
61	14.700	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
62	14.600	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
63	14.500	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
64	14.400	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
65	14.300	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
66	14.200	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
67	14.100	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
68	14.000	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
69	13.900	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
70	13.800	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
71	13.700	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
72	13.600	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
73	13.500	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
74	13.400	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
75	13.300	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
76	13.200	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
77	13.100	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
78	13.000	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
79	12.900	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
80	12.800	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
81	12.700	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
82	12.600	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
83	12.500	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
84	12.400	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
85	12.300	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
86	12.200	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
87	12.100	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
88	12.000	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
89	11.900	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
90	11.800	8.93	0.55	0.07	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.54	0.07	0.00	0.00	0.00	0.00	0.00	0.20			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
53	15.500	20.88	0.10	17.50	288.40	6.02	14.55	0.00	14.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.60
54	15.400	20.88	0.10	17.50	288.40	5.96	14.91	0.00	14.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.63
55	15.300	20.88	0.10	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
56	15.200	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
57	15.100	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
58	15.000	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
59	14.900	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
60	14.800	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
61	14.700	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
62	14.600	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
63	14.500	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
64	14.400	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
65	14.300	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
66	14.200	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
67	14.100	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
68	14.000	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
69	13.900	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
70	13.800	20.88	0.10	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
71	13.700	20.88	0.09	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
72	13.600	20.88	0.09	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
73	13.500	20.88	0.09	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
74	13.400	20.88	0.09	17.50	288.40	5.95	14.97	0.00	14.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
75	13.300	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
76	13.200	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
77	13.100	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
78	13.000	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
79	12.900	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
80	12.800	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
81	12.700	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
82	12.600	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
83	12.500	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
84	12.400	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
85	12.300	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
86	12.200	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
87	12.100	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
88	12.000	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
89	11.900	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64
90	11.800	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.64

********** 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
91	UPR RCH	0.02800	20.88	0.09	17.50	288.40	5.95	14.96	0.00	14.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.64
104	WSTLD	0.02800	0.00	0.00	36.60	199.20	7.93	7.70	0.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37

********** 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
91	11.80	11.70	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
92	11.70	11.60	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
93	11.60	11.50	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
94	11.50	11.40	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
95	11.40	11.30	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
96	11.30	11.20	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
97	11.20	11.10	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
98	11.10	11.00	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
99	11.00	10.90	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
100	10.90	10.80	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
101	10.80	10.70	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
102	10.70	10.60	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
103	10.60	10.50	0.02800	0.0	0.00044	2.62	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.000
104	10.50	10.40	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
105	10.40	10.30	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
106	10.30	10.20	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
107	10.20	10.10	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
108	10.10	10.00	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
109	10.00	9.90	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
110	9.90	9.80	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
111	9.80	9.70	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
112	9.70	9.60	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
113	9.60	9.50	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
114	9.50	9.40	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
115	9.40	9.30	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
116	9.30	9.20	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
117	9.20	9.10	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
118	9.10	9.00	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
119	9.00	8.90	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
120	8.90	8.80	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
121	8.80	8.70	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
122	8.70	8.60	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
123	8.60	8.50	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
124	8.50	8.40	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
125	8.40	8.30	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
126	8.30	8.20	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
127	8.20	8.10	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001

128	8.10	8.00	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
129	8.00	7.90	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
130	7.90	7.80	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
131	7.80	7.70	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
132	7.70	7.60	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
133	7.60	7.50	0.05600	50.0	0.00088	1.31	1.33	47.85	6340.12	4785.00	63.40	0.00	0.000	0.000	0.001
TOT						73.38			272625.38	205755.00					
AVG					0.00068		1.33	47.85			63.40				
CUM						3446.85									

********** 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
91	11.700	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
92	11.600	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
93	11.500	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
94	11.400	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
95	11.300	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
96	11.200	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
97	11.100	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
98	11.000	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
99	10.900	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
100	10.800	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
101	10.700	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
102	10.600	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
103	10.500	8.93	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
104	10.400	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
105	10.300	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
106	10.200	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
107	10.100	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
108	10.000	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
109	9.900	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
110	9.800	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
111	9.700	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
112	9.600	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
113	9.500	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
114	9.400	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
115	9.300	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
116	9.200	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
117	9.100	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
118	9.000	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
119	8.900	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
120	8.800	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
121	8.700	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
122	8.600	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
123	8.500	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
124	8.400	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
125	8.300	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
126	8.200	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
127	8.100	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
128	8.000	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

129	7.900	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
130	7.800	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
131	7.700	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
132	7.600	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
133	7.500	8.93	0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.97	0.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.92			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
91	11.700	20.88	0.09	17.50	288.40	5.32	14.07	0.00	14.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	3.17
92	11.600	20.88	0.09	17.50	288.40	5.16	13.33	0.00	13.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.80
93	11.500	20.88	0.09	17.50	288.40	5.18	12.70	0.00	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
94	11.400	20.88	0.09	17.50	288.40	5.25	12.17	0.00	12.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.29
95	11.300	20.88	0.09	17.50	288.40	5.34	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
96	11.200	20.88	0.09	17.50	288.40	5.43	11.36	0.00	11.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.98
97	11.100	20.88	0.09	17.50	288.40	5.50	11.04	0.00	11.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.87
98	11.000	20.88	0.09	17.50	288.40	5.56	10.78	0.00	10.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.79
99	10.900	20.88	0.09	17.50	288.40	5.62	10.56	0.00	10.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
100	10.800	20.88	0.09	17.50	288.40	5.66	10.38	0.00	10.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.67
101	10.700	20.88	0.10	17.50	288.40	5.69	10.22	0.00	10.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
102	10.600	20.88	0.10	17.50	288.40	5.72	10.09	0.00	10.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.60
103	10.500	20.88	0.10	17.50	288.40	5.75	9.98	0.00	9.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.57
104	10.400	20.88	0.10	27.05	243.80	6.49	8.89	0.00	8.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.47
105	10.300	20.88	0.10	27.05	243.80	6.27	8.94	0.00	8.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
106	10.200	20.88	0.10	27.05	243.80	6.15	8.98	0.00	8.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
107	10.100	20.88	0.10	27.05	243.80	6.07	9.02	0.00	9.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
108	10.000	20.88	0.10	27.05	243.80	6.02	9.05	0.00	9.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
109	9.900	20.88	0.10	27.05	243.80	5.99	9.08	0.00	9.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
110	9.800	20.88	0.10	27.05	243.80	5.97	9.11	0.00	9.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
111	9.700	20.88	0.10	27.05	243.80	5.95	9.14	0.00	9.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
112	9.600	20.88	0.10	27.05	243.80	5.94	9.16	0.00	9.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
113	9.500	20.88	0.10	27.05	243.80	5.94	9.18	0.00	9.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
114	9.400	20.88	0.10	27.05	243.80	5.93	9.20	0.00	9.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
115	9.300	20.88	0.10	27.05	243.80	5.93	9.22	0.00	9.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
116	9.200	20.88	0.10	27.05	243.80	5.92	9.24	0.00	9.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
117	9.100	20.88	0.10	27.05	243.80	5.92	9.25	0.00	9.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
118	9.000	20.88	0.10	27.05	243.80	5.92	9.27	0.00	9.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
119	8.900	20.88	0.10	27.05	243.80	5.92	9.28	0.00	9.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
120	8.800	20.88	0.10	27.05	243.80	5.91	9.29	0.00	9.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
121	8.700	20.88	0.10	27.05	243.80	5.91	9.30	0.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
122	8.600	20.88	0.10	27.05	243.80	5.91	9.31	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
123	8.500	20.88	0.11	27.05	243.80	5.91	9.32	0.00	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
124	8.400	20.88	0.11	27.05	243.80	5.91	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
125	8.300	20.88	0.11	27.05	243.80	5.91	9.33	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
126	8.200	20.88	0.11	27.05	243.80	5.91	9.34	0.00	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
127	8.100	20.88	0.11	27.05	243.80	5.90	9.35	0.00	9.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
128	8.000	20.88	0.11	27.05	243.80	5.90	9.35	0.00	9.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
129	7.900	20.88	0.11	27.05	243.80	5.90	9.36	0.00	9.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
130	7.800	20.88	0.11	27.05	243.80	5.90	9.36	0.00	9.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49

131	7.700	20.88	0.11	27.05	243.80	5.90	9.37	0.00	9.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
132	7.600	20.88	0.11	27.05	243.80	5.90	9.37	0.00	9.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
133	7.500	20.88	0.11	27.05	243.80	5.90	9.37	0.00	9.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49

FINAL REPORT Theriot Canal LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 8 Bayou Boeuf 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
289	UPR RCH	0.05600	20.88	0.11	27.05	243.80	5.90	9.37	0.00	9.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49
289	TRIB	0.08400	20.88	0.11	25.83	216.00	5.76	12.54	0.00	12.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.69

********** 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
289	7.50	7.40	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
290	7.40	7.30	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
291	7.30	7.20	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
292	7.20	7.10	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
293	7.10	7.00	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
294	7.00	6.90	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
295	6.90	6.80	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
296	6.80	6.70	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
297	6.70	6.60	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
298	6.60	6.50	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
299	6.50	6.40	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
300	6.40	6.30	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
301	6.30	6.20	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
302	6.20	6.10	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
303	6.10	6.00	0.14000	60.0	0.00197	0.59	1.71	41.50	7096.50	4150.00	70.97	0.00	0.000	0.000	0.002
TOT						8.80			106447.51	62250.00					
AVG					0.00197		1.71	41.50			70.97				
CUM						3455.65									

********** 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
289	7.400	8.93	0.41	0.07	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	0.11	0.00
290	7.300	8.93	0.41	0.07	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	0.11	0.00
291	7.200	8.93	0.41	0.07	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	0.11	0.00
292	7.100	8.93	0.41	0.07	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	0.11	0.00
293	7.000	8.93	0.41	0.07	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	0.11	0.00

294	6.900	8.93	0.41	0.07	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	0.11	0.00
295	6.800	8.93	0.41	0.07	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	0.11	0.00
296	6.700	8.93	0.41	0.07	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	0.11	0.00
297	6.600	8.93	0.41	0.07	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	0.11	0.00
298	6.500	8.93	0.41	0.07	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	0.11	0.00
299	6.400	8.93	0.41	0.07	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	0.11	0.00
300	6.300	8.93	0.41	0.07	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	0.11	0.00
301	6.200	8.93	0.41	0.07	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	0.11	0.00
302	6.100	8.93	0.41	0.07	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	0.11	0.00
303	6.000	8.93	0.41	0.07	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	0.11	0.00
AVG 20 DEG C RATE			0.40	0.07	0.00	0.00	0.00	0.00	0.00	0.44			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
289	7.400	20.88	0.11	26.32	227.12	5.82	11.16	0.00	11.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
290	7.300	20.88	0.11	26.32	227.12	5.82	11.05	0.00	11.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.87
291	7.200	20.88	0.11	26.32	227.12	5.82	10.95	0.00	10.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.99
292	7.100	20.88	0.11	26.32	227.12	5.82	10.85	0.00	10.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.10
293	7.000	20.88	0.11	26.32	227.12	5.82	10.75	0.00	10.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.21
294	6.900	20.88	0.11	26.32	227.12	5.81	10.66	0.00	10.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.31
295	6.800	20.88	0.11	26.32	227.12	5.80	10.57	0.00	10.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.40
296	6.700	20.88	0.10	26.32	227.12	5.80	10.49	0.00	10.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.49
297	6.600	20.88	0.10	26.32	227.12	5.79	10.40	0.00	10.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.57
298	6.500	20.88	0.10	26.32	227.12	5.79	10.33	0.00	10.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.65
299	6.400	20.88	0.10	26.32	227.12	5.78	10.25	0.00	10.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.72
300	6.300	20.88	0.10	26.32	227.12	5.77	10.18	0.00	10.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.79
301	6.200	20.88	0.10	26.32	227.12	5.77	10.11	0.00	10.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.85
302	6.100	20.88	0.10	26.32	227.12	5.76	10.05	0.00	10.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.91
303	6.000	20.88	0.10	26.32	227.12	5.76	9.98	0.00	9.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.97

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CL mg/L	COND umhos	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 mg/L	PHOS mg/L	CHL A µg/L	COLI #/100mL	NBOD mg/L
524	UPR RCH	0.14000	20.88	0.10	26.32	227.12	5.76	9.98	0.00	9.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.97
524	TRIB	0.05600	20.88	0.10	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.80

********** 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
524	6.00	5.90	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
525	5.90	5.80	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
526	5.80	5.70	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
527	5.70	5.60	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
528	5.60	5.50	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
529	5.50	5.40	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
530	5.40	5.30	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
531	5.30	5.20	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
532	5.20	5.10	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
533	5.10	5.00	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
534	5.00	4.90	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
535	4.90	4.80	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
536	4.80	4.70	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
537	4.70	4.60	0.19600	57.1	0.00153	0.75	1.85	69.03	12770.55	6903.00	127.71	0.00	0.000	0.000	0.002
TOT						10.56			178787.67	96642.00					
AVG					0.00153		1.85	69.03			127.71				
CUM						3466.21									

********** 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
524	5.900	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
525	5.800	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
526	5.700	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
527	5.600	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
528	5.500	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
529	5.400	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
530	5.300	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
531	5.200	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
532	5.100	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
533	5.000	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
534	4.900	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

535	4.800	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
536	4.700	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
537	4.600	8.93	0.38	0.07	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.37	0.07	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	0.10	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
524	5.900	20.88	0.10	23.30	212.33	5.70	7.14	0.00	7.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.52
525	5.800	20.88	0.10	23.30	212.33	5.64	7.15	0.00	7.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.40
526	5.700	20.88	0.10	23.30	212.33	5.60	7.17	0.00	7.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.30
527	5.600	20.88	0.10	23.30	212.33	5.57	7.18	0.00	7.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.20
528	5.500	20.88	0.10	23.30	212.33	5.55	7.19	0.00	7.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.11
529	5.400	20.88	0.10	23.30	212.33	5.54	7.20	0.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	2.03
530	5.300	20.88	0.10	23.30	212.33	5.54	7.20	0.00	7.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.96
531	5.200	20.88	0.10	23.30	212.33	5.54	7.21	0.00	7.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.88
532	5.100	20.88	0.10	23.30	212.33	5.55	7.22	0.00	7.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.82
533	5.000	20.88	0.10	23.30	212.33	5.56	7.23	0.00	7.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.76
534	4.900	20.88	0.10	23.30	212.33	5.57	7.24	0.00	7.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
535	4.800	20.88	0.10	23.30	212.33	5.58	7.24	0.00	7.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.65
536	4.700	20.88	0.10	23.30	212.33	5.59	7.25	0.00	7.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.60
537	4.600	20.88	0.10	23.30	212.33	5.60	7.26	0.00	7.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.56

FINAL REPORT Theriot Canal
REACH NO. 19 Bayou Beouf

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
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
538	UPR RCH	0.19600	20.88	0.10	23.30	212.33	5.60	7.26	0.00	7.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.56
566	WSTLD	0.00011	0.00	0.00	0.00	0.00	2.00	103.50	0.00	103.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.50
567	WSTLD	0.00022	0.00	0.00	0.00	0.00	2.00	103.50	0.00	103.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.50

********** 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
538	4.60	4.50	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
539	4.50	4.40	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
540	4.40	4.30	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
541	4.30	4.20	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
542	4.20	4.10	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
543	4.10	4.00	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
544	4.00	3.90	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
545	3.90	3.80	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
546	3.80	3.70	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
547	3.70	3.60	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
548	3.60	3.50	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
549	3.50	3.40	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
550	3.40	3.30	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
551	3.30	3.20	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
552	3.20	3.10	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
553	3.10	3.00	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
554	3.00	2.90	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
555	2.90	2.80	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
556	2.80	2.70	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
557	2.70	2.60	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
558	2.60	2.50	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
559	2.50	2.40	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
560	2.40	2.30	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
561	2.30	2.20	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
562	2.20	2.10	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
563	2.10	2.00	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
564	2.00	1.90	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
565	1.90	1.80	0.19600	57.1	0.00155	0.75	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
566	1.80	1.70	0.19611	57.2	0.00155	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
567	1.70	1.60	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
568	1.60	1.50	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
569	1.50	1.40	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
570	1.40	1.30	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
571	1.30	1.20	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
572	1.20	1.10	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
573	1.10	1.00	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
574	1.00	0.90	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
575	0.90	0.80	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
576	0.80	0.70	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
577	0.70	0.60	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
578	0.60	0.50	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
579	0.50	0.40	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
580	0.40	0.30	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
581	0.30	0.20	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
582	0.20	0.10	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
583	0.10	0.00	0.19633	57.2	0.00156	0.74	2.01	62.80	12622.80	6280.00	126.23	0.00	0.000	0.000	0.002
TOT						34.27			580649.06	288880.00					
AVG					0.00155		2.01	62.80			126.23				
CUM						3500.47									

********** 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
538	4.500	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
539	4.400	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
540	4.300	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
541	4.200	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
542	4.100	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
543	4.000	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
544	3.900	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
545	3.800	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
546	3.700	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
547	3.600	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
548	3.500	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
549	3.400	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
550	3.300	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
551	3.200	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
552	3.100	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
553	3.000	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
554	2.900	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
555	2.800	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
556	2.700	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
557	2.600	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
558	2.500	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
559	2.400	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
560	2.300	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
561	2.200	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
562	2.100	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
563	2.000	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
564	1.900	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
565	1.800	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
566	1.700	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
567	1.600	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
568	1.500	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
569	1.400	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
570	1.300	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
571	1.200	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
572	1.100	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
573	1.000	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
574	0.900	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
575	0.800	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
576	0.700	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
577	0.600	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
578	0.500	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
579	0.400	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
580	0.300	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
581	0.200	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
582	0.100	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
583	0.000	8.93	0.35	0.07	0.00	0.00	0.00	0.00	0.00	1.15	1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.34	0.07	0.00	0.00	0.00	0.00	0.00	1.09			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
538	4.500	20.88	0.10	23.30	212.33	5.54	7.15	0.00	7.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.54
539	4.400	20.88	0.10	23.30	212.33	5.50	7.04	0.00	7.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.52
540	4.300	20.88	0.10	23.30	212.33	5.47	6.95	0.00	6.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.51
541	4.200	20.88	0.10	23.30	212.33	5.45	6.85	0.00	6.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
542	4.100	20.88	0.10	23.30	212.33	5.44	6.77	0.00	6.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
543	4.000	20.88	0.10	23.30	212.33	5.44	6.68	0.00	6.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.47
544	3.900	20.88	0.10	23.30	212.33	5.44	6.60	0.00	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.46
545	3.800	20.88	0.10	23.30	212.33	5.45	6.53	0.00	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
546	3.700	20.88	0.10	23.30	212.33	5.46	6.46	0.00	6.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
547	3.600	20.88	0.10	23.30	212.33	5.47	6.39	0.00	6.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.43
548	3.500	20.88	0.10	23.30	212.33	5.48	6.33	0.00	6.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.42
549	3.400	20.88	0.10	23.30	212.33	5.49	6.27	0.00	6.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.41
550	3.300	20.88	0.10	23.30	212.33	5.50	6.21	0.00	6.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.40
551	3.200	20.88	0.10	23.30	212.33	5.51	6.15	0.00	6.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.40
552	3.100	20.88	0.10	23.30	212.33	5.53	6.10	0.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.39
553	3.000	20.88	0.10	23.30	212.33	5.54	6.05	0.00	6.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.39
554	2.900	20.88	0.10	23.30	212.33	5.55	6.01	0.00	6.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.38
555	2.800	20.88	0.10	23.30	212.33	5.56	5.96	0.00	5.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.38
556	2.700	20.88	0.10	23.30	212.33	5.57	5.92	0.00	5.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
557	2.600	20.88	0.10	23.30	212.33	5.59	5.88	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
558	2.500	20.88	0.10	23.30	212.33	5.60	5.84	0.00	5.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.36
559	2.400	20.88	0.10	23.30	212.33	5.61	5.81	0.00	5.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.36
560	2.300	20.88	0.10	23.30	212.33	5.62	5.77	0.00	5.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.36
561	2.200	20.88	0.10	23.30	212.33	5.63	5.74	0.00	5.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35
562	2.100	20.88	0.10	23.30	212.33	5.63	5.71	0.00	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35
563	2.000	20.88	0.10	23.30	212.33	5.64	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35
564	1.900	20.88	0.10	23.30	212.33	5.65	5.66	0.00	5.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35
565	1.800	20.88	0.10	23.30	212.33	5.66	5.63	0.00	5.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.34
566	1.700	20.88	0.10	23.29	212.21	5.66	5.66	0.00	5.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
567	1.600	20.88	0.10	23.26	211.97	5.65	5.73	0.00	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
568	1.500	20.88	0.10	23.26	211.97	5.65	5.70	0.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.43
569	1.400	20.88	0.10	23.26	211.97	5.65	5.68	0.00	5.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.42
570	1.300	20.88	0.10	23.26	211.97	5.65	5.65	0.00	5.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.41
571	1.200	20.88	0.10	23.26	211.97	5.66	5.62	0.00	5.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.40
572	1.100	20.88	0.10	23.26	211.97	5.66	5.60	0.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.40
573	1.000	20.88	0.10	23.26	211.97	5.67	5.58	0.00	5.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.39
574	0.900	20.88	0.10	23.26	211.97	5.67	5.55	0.00	5.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.39
575	0.800	20.88	0.10	23.26	211.97	5.68	5.53	0.00	5.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.38
576	0.700	20.88	0.10	23.26	211.97	5.68	5.51	0.00	5.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.38
577	0.600	20.88	0.10	23.26	211.97	5.69	5.50	0.00	5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
578	0.500	20.88	0.10	23.26	211.97	5.69	5.48	0.00	5.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
579	0.400	20.88	0.10	23.26	211.97	5.70	5.46	0.00	5.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.36
580	0.300	20.88	0.10	23.26	211.97	5.70	5.44	0.00	5.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.36
581	0.200	20.88	0.10	23.26	211.97	5.71	5.43	0.00	5.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.36
582	0.100	20.88	0.10	23.26	211.97	5.71	5.42	0.00	5.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35
583	0.000	20.88	0.10	23.26	211.97	5.72	5.40	0.00	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35

STREAM SUMMARY
Theriot Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Winter Projection Meeting DO Standard of 5 mg/L

TRAVEL TIME	=	3500.47	DAYS		
MAXIMUM EFFLUENT	=	60.00	PERCENT		
FLOW	=	0.02800	TO	0.19633	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00001	TO	0.00299	m/s
DEPTH	=	0.56	TO	2.01	m
WIDTH	=	14.00	TO	******	m
BOD DECAY	=	0.07	TO	0.07	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.21	TO	1.49	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.35	TO	1.27	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	=	20.88	TO	20.88	deg C
DISSOLVED OXYGEN	=	5.16	TO	7.39	mg/L

FINAL REPORT Halpin Canal
REACH NO. 5 Halpin Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
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
134	HDWTR	0.02800	0.00	0.00	29.10	245.20	7.95	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17
204	WSTLD	0.02800	0.00	0.00	24.20	201.40	7.89	6.53	0.00	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35

********** 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
134	15.50	15.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
135	15.40	15.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
136	15.30	15.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
137	15.20	15.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
138	15.10	15.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
139	15.00	14.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
140	14.90	14.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
141	14.80	14.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
142	14.70	14.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
143	14.60	14.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
144	14.50	14.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
145	14.40	14.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
146	14.30	14.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
147	14.20	14.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
148	14.10	14.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
149	14.00	13.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
150	13.90	13.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
151	13.80	13.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
152	13.70	13.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
153	13.60	13.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
154	13.50	13.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
155	13.40	13.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
156	13.30	13.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
157	13.20	13.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
158	13.10	13.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
159	13.00	12.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
160	12.90	12.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
161	12.80	12.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
162	12.70	12.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
163	12.60	12.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
164	12.50	12.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
165	12.40	12.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
166	12.30	12.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
167	12.20	12.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
168	12.10	12.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
169	12.00	11.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
170	11.90	11.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
171	11.80	11.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
172	11.70	11.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
173	11.60	11.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
174	11.50	11.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
175	11.40	11.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
176	11.30	11.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
177	11.20	11.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
178	11.10	11.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
179	11.00	10.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
180	10.90	10.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
181	10.80	10.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
182	10.70	10.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
183	10.60	10.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002

184	10.50	10.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
185	10.40	10.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
186	10.30	10.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
187	10.20	10.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
188	10.10	10.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
189	10.00	9.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
190	9.90	9.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
191	9.80	9.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
192	9.70	9.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
193	9.60	9.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
194	9.50	9.40	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
195	9.40	9.30	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
196	9.30	9.20	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
197	9.20	9.10	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
198	9.10	9.00	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
199	9.00	8.90	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
200	8.90	8.80	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
201	8.80	8.70	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
202	8.70	8.60	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
203	8.60	8.50	0.02800	0.0	0.00159	0.73	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.002
204	8.50	8.40	0.05600	50.0	0.00318	0.36	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
205	8.40	8.30	0.05600	50.0	0.00318	0.36	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
206	8.30	8.20	0.05600	50.0	0.00318	0.36	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
207	8.20	8.10	0.05600	50.0	0.00318	0.36	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
208	8.10	8.00	0.05600	50.0	0.00318	0.36	0.76	23.20	1763.20	2320.00	17.63	0.00	0.000	0.000	0.003
TOT						52.84			132240.09	174000.00					
AVG					0.00164		0.76	23.20			17.63				
CUM						52.84									

********** 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
134	15.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
135	15.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
136	15.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
137	15.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
138	15.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
139	14.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
140	14.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
141	14.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
142	14.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
143	14.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
144	14.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
145	14.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
146	14.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
147	14.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
148	14.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
149	13.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
150	13.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
151	13.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
152	13.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

153	13.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
154	13.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
155	13.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
156	13.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
157	13.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
158	13.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
159	12.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
160	12.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
161	12.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
162	12.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
163	12.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
164	12.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
165	12.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
166	12.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
167	12.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
168	12.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
169	11.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
170	11.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
171	11.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
172	11.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
173	11.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
174	11.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
175	11.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
176	11.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
177	11.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
178	11.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
179	10.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
180	10.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
181	10.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
182	10.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
183	10.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
184	10.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
185	10.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
186	10.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
187	10.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
188	10.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
189	9.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
190	9.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
191	9.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
192	9.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
193	9.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
194	9.400	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
195	9.300	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
196	9.200	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
197	9.100	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
198	9.000	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
199	8.900	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
200	8.800	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
201	8.700	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
202	8.600	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
203	8.500	8.93	0.92	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
204	8.400	8.93	0.95	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
205	8.300	8.93	0.95	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
206	8.200	8.93	0.95	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
207	8.100	8.93	0.95	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
208	8.000	8.93	0.95	0.07	0.00	0.00	0.00	0.00	0.00	1.69	1.69	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

AVG 20 DEG C RATE 0.91 0.07 0.00 0.00 0.00 0.00 0.00 1.60 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.10 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
134	15.400	20.88	0.12	29.10	245.20	7.11	6.55	0.00	6.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
135	15.300	20.88	0.12	29.10	245.20	6.61	6.51	0.00	6.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.18
136	15.200	20.88	0.12	29.10	245.20	6.31	6.48	0.00	6.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.18
137	15.100	20.88	0.12	29.10	245.20	6.13	6.44	0.00	6.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.18
138	15.000	20.88	0.12	29.10	245.20	6.02	6.41	0.00	6.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.18
139	14.900	20.88	0.12	29.10	245.20	5.96	6.38	0.00	6.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.18
140	14.800	20.88	0.12	29.10	245.20	5.92	6.35	0.00	6.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19
141	14.700	20.88	0.12	29.10	245.20	5.90	6.33	0.00	6.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19
142	14.600	20.88	0.12	29.10	245.20	5.89	6.30	0.00	6.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19
143	14.500	20.88	0.12	29.10	245.20	5.88	6.27	0.00	6.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19
144	14.400	20.88	0.12	29.10	245.20	5.88	6.25	0.00	6.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19
145	14.300	20.88	0.12	29.10	245.20	5.88	6.23	0.00	6.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19
146	14.200	20.88	0.12	29.10	245.20	5.88	6.21	0.00	6.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
147	14.100	20.88	0.12	29.10	245.20	5.88	6.19	0.00	6.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
148	14.000	20.88	0.12	29.10	245.20	5.88	6.17	0.00	6.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
149	13.900	20.88	0.12	29.10	245.20	5.88	6.15	0.00	6.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
150	13.800	20.88	0.12	29.10	245.20	5.88	6.13	0.00	6.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
151	13.700	20.88	0.12	29.10	245.20	5.88	6.12	0.00	6.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
152	13.600	20.88	0.12	29.10	245.20	5.88	6.10	0.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
153	13.500	20.88	0.12	29.10	245.20	5.89	6.09	0.00	6.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
154	13.400	20.88	0.12	29.10	245.20	5.89	6.07	0.00	6.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
155	13.300	20.88	0.12	29.10	245.20	5.89	6.06	0.00	6.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
156	13.200	20.88	0.12	29.10	245.20	5.89	6.05	0.00	6.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
157	13.100	20.88	0.12	29.10	245.20	5.89	6.04	0.00	6.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
158	13.000	20.88	0.12	29.10	245.20	5.89	6.02	0.00	6.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.20
159	12.900	20.88	0.12	29.10	245.20	5.89	6.01	0.00	6.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
160	12.800	20.88	0.12	29.10	245.20	5.89	6.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
161	12.700	20.88	0.12	29.10	245.20	5.89	5.99	0.00	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
162	12.600	20.88	0.12	29.10	245.20	5.89	5.98	0.00	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
163	12.500	20.88	0.12	29.10	245.20	5.89	5.98	0.00	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
164	12.400	20.88	0.12	29.10	245.20	5.90	5.97	0.00	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
165	12.300	20.88	0.12	29.10	245.20	5.90	5.96	0.00	5.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
166	12.200	20.88	0.12	29.10	245.20	5.90	5.95	0.00	5.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
167	12.100	20.88	0.12	29.10	245.20	5.90	5.94	0.00	5.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
168	12.000	20.88	0.12	29.10	245.20	5.90	5.94	0.00	5.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
169	11.900	20.88	0.12	29.10	245.20	5.90	5.93	0.00	5.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
170	11.800	20.88	0.12	29.10	245.20	5.90	5.93	0.00	5.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
171	11.700	20.88	0.12	29.10	245.20	5.90	5.92	0.00	5.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
172	11.600	20.88	0.12	29.10	245.20	5.90	5.91	0.00	5.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
173	11.500	20.88	0.12	29.10	245.20	5.90	5.91	0.00	5.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
174	11.400	20.88	0.12	29.10	245.20	5.90	5.90	0.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
175	11.300	20.88	0.12	29.10	245.20	5.90	5.90	0.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
176	11.200	20.88	0.12	29.10	245.20	5.90	5.89	0.00	5.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
177	11.100	20.88	0.12	29.10	245.20	5.90	5.89	0.00	5.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
178	11.000	20.88	0.12	29.10	245.20	5.90	5.89	0.00	5.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21

179	10.900	20.88	0.12	29.10	245.20	5.90	5.88	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
180	10.800	20.88	0.12	29.10	245.20	5.90	5.88	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
181	10.700	20.88	0.12	29.10	245.20	5.90	5.88	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
182	10.600	20.88	0.12	29.10	245.20	5.90	5.87	0.00	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
183	10.500	20.88	0.12	29.10	245.20	5.90	5.87	0.00	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
184	10.400	20.88	0.12	29.10	245.20	5.90	5.87	0.00	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
185	10.300	20.88	0.12	29.10	245.20	5.90	5.86	0.00	5.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
186	10.200	20.88	0.12	29.10	245.20	5.90	5.86	0.00	5.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
187	10.100	20.88	0.12	29.10	245.20	5.90	5.86	0.00	5.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
188	10.000	20.88	0.12	29.10	245.20	5.90	5.86	0.00	5.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
189	9.900	20.88	0.12	29.10	245.20	5.90	5.85	0.00	5.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
190	9.800	20.88	0.12	29.10	245.20	5.91	5.85	0.00	5.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
191	9.700	20.88	0.12	29.10	245.20	5.91	5.85	0.00	5.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
192	9.600	20.88	0.12	29.10	245.20	5.91	5.85	0.00	5.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
193	9.500	20.88	0.12	29.10	245.20	5.91	5.85	0.00	5.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
194	9.400	20.88	0.12	29.10	245.20	5.91	5.84	0.00	5.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
195	9.300	20.88	0.12	29.10	245.20	5.91	5.84	0.00	5.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
196	9.200	20.88	0.12	29.10	245.20	5.91	5.84	0.00	5.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
197	9.100	20.88	0.12	29.10	245.20	5.91	5.84	0.00	5.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
198	9.000	20.88	0.12	29.10	245.20	5.91	5.84	0.00	5.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
199	8.900	20.88	0.12	29.10	245.20	5.91	5.84	0.00	5.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
200	8.800	20.88	0.12	29.10	245.20	5.91	5.83	0.00	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
201	8.700	20.88	0.12	29.10	245.20	5.91	5.83	0.00	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
202	8.600	20.88	0.12	29.10	245.20	5.91	5.83	0.00	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
203	8.500	20.88	0.12	29.10	245.20	5.91	5.83	0.00	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
204	8.400	20.88	0.12	26.65	223.30	6.66	6.17	0.00	6.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
205	8.300	20.88	0.12	26.65	223.30	6.48	6.16	0.00	6.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
206	8.200	20.88	0.12	26.65	223.30	6.35	6.15	0.00	6.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27
207	8.100	20.88	0.12	26.65	223.30	6.25	6.14	0.00	6.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27
208	8.000	20.88	0.12	26.65	223.30	6.18	6.14	0.00	6.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27

********** 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
209	UPR RCH	0.05600	20.88	0.12	26.65	223.30	6.18	6.14	0.00	6.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27
227	WSTLD	0.02800	0.00	0.00	24.20	201.40	7.89	6.53	0.00	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m^3/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m^3	SURFACE AREA m^2	X-SECT AREA m^2	TIDAL PRISM m^3	TIDAL VELO m/s	DISPRSN m^2/s	MEAN VELO m/s
209	8.00	7.90	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
210	7.90	7.80	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
211	7.80	7.70	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
212	7.70	7.60	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
213	7.60	7.50	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
214	7.50	7.40	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
215	7.40	7.30	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
216	7.30	7.20	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
217	7.20	7.10	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
218	7.10	7.00	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
219	7.00	6.90	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
220	6.90	6.80	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
221	6.80	6.70	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
222	6.70	6.60	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
223	6.60	6.50	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
224	6.50	6.40	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
225	6.40	6.30	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
226	6.30	6.20	0.05600	50.0	0.00224	0.52	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.002
227	6.20	6.10	0.08400	66.7	0.00336	0.34	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.003
228	6.10	6.00	0.08400	66.7	0.00336	0.34	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.003
229	6.00	5.90	0.08400	66.7	0.00336	0.34	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.003
230	5.90	5.80	0.08400	66.7	0.00336	0.34	1.05	23.80	2499.00	2380.00	24.99	0.00	0.000	0.000	0.003
TOT						10.67			54978.00	52360.00					
AVG					0.00239		1.05	23.80			24.99				
CUM						63.51									

********** 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
209	7.900	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
210	7.800	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
211	7.700	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
212	7.600	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
213	7.500	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
214	7.400	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
215	7.300	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
216	7.200	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
217	7.100	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
218	7.000	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
219	6.900	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
220	6.800	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
221	6.700	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
222	6.600	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
223	6.500	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
224	6.400	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
225	6.300	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
226	6.200	8.93	0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
227	6.100	8.93	0.69	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
228	6.000	8.93	0.69	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
229	5.900	8.93	0.69	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
230	5.800	8.93	0.69	0.07	0.00	0.00	0.00	0.00	0.00	0.60	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.67	0.07	0.00	0.00	0.00	0.00	0.00	0.57			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
209	7.900	20.88	0.12	26.65	223.30	6.43	6.77	0.00	6.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
210	7.800	20.88	0.12	26.65	223.30	6.59	7.39	0.00	7.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.37
211	7.700	20.88	0.12	26.65	223.30	6.70	7.98	0.00	7.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.41
212	7.600	20.88	0.12	26.65	223.30	6.76	8.55	0.00	8.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.45
213	7.500	20.88	0.12	26.65	223.30	6.78	9.10	0.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.49
214	7.400	20.88	0.12	26.65	223.30	6.79	9.63	0.00	9.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.53
215	7.300	20.88	0.12	26.65	223.30	6.77	10.14	0.00	10.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.57
216	7.200	20.88	0.12	26.65	223.30	6.75	10.63	0.00	10.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.60
217	7.100	20.88	0.12	26.65	223.30	6.72	11.11	0.00	11.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.63
218	7.000	20.88	0.12	26.65	223.30	6.68	11.56	0.00	11.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.67
219	6.900	20.88	0.12	26.65	223.30	6.64	12.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.69
220	6.800	20.88	0.12	26.65	223.30	6.59	12.43	0.00	12.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
221	6.700	20.88	0.12	26.65	223.30	6.55	12.84	0.00	12.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
222	6.600	20.88	0.12	26.65	223.30	6.50	13.23	0.00	13.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.77
223	6.500	20.88	0.12	26.65	223.30	6.45	13.61	0.00	13.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
224	6.400	20.88	0.12	26.65	223.30	6.41	13.98	0.00	13.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.82
225	6.300	20.88	0.12	26.65	223.30	6.37	14.33	0.00	14.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.84

226	6.200	20.88	0.12	26.65	223.30	6.32	14.67	0.00	14.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.86
227	6.100	20.88	0.12	25.83	216.00	6.79	12.25	0.00	12.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
228	6.000	20.88	0.12	25.83	216.00	6.73	12.53	0.00	12.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
229	5.900	20.88	0.12	25.83	216.00	6.68	12.80	0.00	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
230	5.800	20.88	0.12	25.83	216.00	6.64	13.07	0.00	13.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.76

FINAL REPORT Halpin Canal
REACH NO. 7 Halpin Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
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
231	UPR RCH	0.08400	20.88	0.12	25.83	216.00	6.64	13.07	0.00	13.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76

********** 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
231	5.80	5.70	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
232	5.70	5.60	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
233	5.60	5.50	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
234	5.50	5.40	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
235	5.40	5.30	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
236	5.30	5.20	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
237	5.20	5.10	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
238	5.10	5.00	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
239	5.00	4.90	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
240	4.90	4.80	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
241	4.80	4.70	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
242	4.70	4.60	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
243	4.60	4.50	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
244	4.50	4.40	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
245	4.40	4.30	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
246	4.30	4.20	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
247	4.20	4.10	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
248	4.10	4.00	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
249	4.00	3.90	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
250	3.90	3.80	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
251	3.80	3.70	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
252	3.70	3.60	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
253	3.60	3.50	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
254	3.50	3.40	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
255	3.40	3.30	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
256	3.30	3.20	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
257	3.20	3.10	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
258	3.10	3.00	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
259	3.00	2.90	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
260	2.90	2.80	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
261	2.80	2.70	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003

262	2.70	2.60	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
263	2.60	2.50	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
264	2.50	2.40	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
265	2.40	2.30	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
266	2.30	2.20	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
267	2.20	2.10	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
268	2.10	2.00	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
269	2.00	1.90	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
270	1.90	1.80	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
271	1.80	1.70	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
272	1.70	1.60	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
273	1.60	1.50	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
274	1.50	1.40	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
275	1.40	1.30	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
276	1.30	1.20	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
277	1.20	1.10	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
278	1.10	1.00	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
279	1.00	0.90	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
280	0.90	0.80	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
281	0.80	0.70	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
282	0.70	0.60	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
283	0.60	0.50	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
284	0.50	0.40	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
285	0.40	0.30	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
286	0.30	0.20	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
287	0.20	0.10	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
288	0.10	0.00	0.08400	66.7	0.00257	0.45	1.34	24.40	3269.60	2440.00	32.70	0.00	0.000	0.000	0.003
TOT						26.13			189636.73	141520.00					
AVG					0.00257		1.34	24.40			32.70				
CUM						89.64									

********** 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
231	5.700	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
232	5.600	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
233	5.500	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
234	5.400	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
235	5.300	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
236	5.200	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
237	5.100	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
238	5.000	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
239	4.900	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
240	4.800	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
241	4.700	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
242	4.600	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
243	4.500	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
244	4.400	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
245	4.300	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
246	4.200	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
247	4.100	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00

248	4.000	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
249	3.900	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
250	3.800	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
251	3.700	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
252	3.600	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
253	3.500	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
254	3.400	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
255	3.300	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
256	3.200	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
257	3.100	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
258	3.000	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
259	2.900	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
260	2.800	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
261	2.700	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
262	2.600	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
263	2.500	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
264	2.400	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
265	2.300	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
266	2.200	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
267	2.100	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
268	2.000	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
269	1.900	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
270	1.800	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
271	1.700	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
272	1.600	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
273	1.500	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
274	1.400	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
275	1.300	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
276	1.200	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
277	1.100	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
278	1.000	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
279	0.900	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
280	0.800	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
281	0.700	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
282	0.600	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
283	0.500	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
284	0.400	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
285	0.300	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
286	0.200	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
287	0.100	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
288	0.000	8.93	0.53	0.07	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
AVG 20 DEG C RATE			0.52	0.07	0.00	0.00	0.00	0.00	0.00	0.75			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10	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
231	5.700	20.88	0.12	25.83	216.00	6.45	13.05	0.00	13.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.76
232	5.600	20.88	0.12	25.83	216.00	6.30	13.03	0.00	13.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.76
233	5.500	20.88	0.12	25.83	216.00	6.18	13.01	0.00	13.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
234	5.400	20.88	0.12	25.83	216.00	6.09	12.99	0.00	12.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75

235	5.300	20.88	0.12	25.83	216.00	6.01	12.97	0.00	12.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
236	5.200	20.88	0.12	25.83	216.00	5.95	12.96	0.00	12.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
237	5.100	20.88	0.12	25.83	216.00	5.90	12.94	0.00	12.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
238	5.000	20.88	0.12	25.83	216.00	5.86	12.93	0.00	12.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
239	4.900	20.88	0.12	25.83	216.00	5.83	12.91	0.00	12.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
240	4.800	20.88	0.12	25.83	216.00	5.81	12.90	0.00	12.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
241	4.700	20.88	0.12	25.83	216.00	5.79	12.88	0.00	12.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
242	4.600	20.88	0.12	25.83	216.00	5.77	12.87	0.00	12.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
243	4.500	20.88	0.12	25.83	216.00	5.76	12.85	0.00	12.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
244	4.400	20.88	0.12	25.83	216.00	5.75	12.84	0.00	12.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
245	4.300	20.88	0.12	25.83	216.00	5.74	12.83	0.00	12.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.73
246	4.200	20.88	0.12	25.83	216.00	5.74	12.82	0.00	12.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
247	4.100	20.88	0.12	25.83	216.00	5.74	12.80	0.00	12.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
248	4.000	20.88	0.12	25.83	216.00	5.73	12.79	0.00	12.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
249	3.900	20.88	0.12	25.83	216.00	5.73	12.78	0.00	12.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
250	3.800	20.88	0.12	25.83	216.00	5.73	12.77	0.00	12.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
251	3.700	20.88	0.12	25.83	216.00	5.73	12.76	0.00	12.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
252	3.600	20.88	0.12	25.83	216.00	5.73	12.75	0.00	12.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
253	3.500	20.88	0.12	25.83	216.00	5.73	12.74	0.00	12.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
254	3.400	20.88	0.12	25.83	216.00	5.73	12.73	0.00	12.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
255	3.300	20.88	0.12	25.83	216.00	5.73	12.72	0.00	12.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
256	3.200	20.88	0.12	25.83	216.00	5.73	12.71	0.00	12.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
257	3.100	20.88	0.12	25.83	216.00	5.73	12.70	0.00	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
258	3.000	20.88	0.12	25.83	216.00	5.73	12.70	0.00	12.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
259	2.900	20.88	0.12	25.83	216.00	5.73	12.69	0.00	12.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
260	2.800	20.88	0.12	25.83	216.00	5.74	12.68	0.00	12.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
261	2.700	20.88	0.12	25.83	216.00	5.74	12.67	0.00	12.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
262	2.600	20.88	0.12	25.83	216.00	5.74	12.67	0.00	12.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.71
263	2.500	20.88	0.12	25.83	216.00	5.74	12.66	0.00	12.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
264	2.400	20.88	0.12	25.83	216.00	5.74	12.65	0.00	12.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
265	2.300	20.88	0.12	25.83	216.00	5.74	12.65	0.00	12.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
266	2.200	20.88	0.12	25.83	216.00	5.74	12.64	0.00	12.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
267	2.100	20.88	0.12	25.83	216.00	5.74	12.63	0.00	12.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
268	2.000	20.88	0.12	25.83	216.00	5.74	12.63	0.00	12.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
269	1.900	20.88	0.11	25.83	216.00	5.75	12.62	0.00	12.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
270	1.800	20.88	0.11	25.83	216.00	5.75	12.62	0.00	12.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
271	1.700	20.88	0.11	25.83	216.00	5.75	12.61	0.00	12.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
272	1.600	20.88	0.11	25.83	216.00	5.75	12.60	0.00	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
273	1.500	20.88	0.11	25.83	216.00	5.75	12.60	0.00	12.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
274	1.400	20.88	0.11	25.83	216.00	5.75	12.59	0.00	12.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
275	1.300	20.88	0.11	25.83	216.00	5.75	12.59	0.00	12.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
276	1.200	20.88	0.11	25.83	216.00	5.75	12.58	0.00	12.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
277	1.100	20.88	0.11	25.83	216.00	5.75	12.58	0.00	12.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
278	1.000	20.88	0.11	25.83	216.00	5.75	12.58	0.00	12.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
279	0.900	20.88	0.11	25.83	216.00	5.75	12.57	0.00	12.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
280	0.800	20.88	0.11	25.83	216.00	5.75	12.57	0.00	12.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
281	0.700	20.88	0.11	25.83	216.00	5.76	12.56	0.00	12.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
282	0.600	20.88	0.11	25.83	216.00	5.76	12.56	0.00	12.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
283	0.500	20.88	0.11	25.83	216.00	5.76	12.56	0.00	12.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
284	0.400	20.88	0.11	25.83	216.00	5.76	12.55	0.00	12.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
285	0.300	20.88	0.11	25.83	216.00	5.76	12.55	0.00	12.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.69
286	0.200	20.88	0.11	25.83	216.00	5.76	12.55	0.00	12.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.69
287	0.100	20.88	0.11	25.83	216.00	5.76	12.54	0.00	12.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.69
288	0.000	20.88	0.11	25.83	216.00	5.76	12.54	0.00	12.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.69

STREAM SUMMARY
Halpin Canal

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Winter Projection Meeting DO Standard of 5 mg/L

TRAVEL TIME	=	89.64	DAYS		
MAXIMUM EFFLUENT	=	66.67	PERCENT		
FLOW	=	0.02800	TO	0.08400	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00159	TO	0.00336	m/s
DEPTH	=	0.76	TO	1.34	m
WIDTH	=	23.20	TO	24.40	m
BOD DECAY	=	0.07	TO	0.07	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.60	TO	1.69	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.53	TO	0.95	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	=	20.88	TO	20.88	deg C
DISSOLVED OXYGEN	=	5.73	TO	7.11	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
304	HDWTR	0.02800	0.00	0.00	12.10	143.00	7.93	6.97	0.00	6.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07

********** 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
304	22.00	21.90	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
305	21.90	21.80	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
306	21.80	21.70	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
307	21.70	21.60	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
308	21.60	21.50	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
309	21.50	21.40	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
310	21.40	21.30	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
311	21.30	21.20	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
312	21.20	21.10	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
313	21.10	21.00	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
314	21.00	20.90	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
315	20.90	20.80	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
316	20.80	20.70	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
317	20.70	20.60	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
318	20.60	20.50	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
319	20.50	20.40	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
320	20.40	20.30	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
321	20.30	20.20	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
322	20.20	20.10	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
323	20.10	20.00	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
324	20.00	19.90	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
325	19.90	19.80	0.02800	0.0	0.00144	0.80	1.00	19.50	1942.20	1950.00	19.42	0.00	0.000	0.000	0.001
TOT						17.66			42728.39	42900.00					
AVG					0.00144		1.00	19.50			19.42				
CUM						17.66									

********** 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
304	21.900	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
305	21.800	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
306	21.700	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
307	21.600	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
308	21.500	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
309	21.400	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
310	21.300	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
311	21.200	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
312	21.100	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
313	21.000	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
314	20.900	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
315	20.800	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
316	20.700	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
317	20.600	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
318	20.500	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
319	20.400	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
320	20.300	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
321	20.200	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
322	20.100	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
323	20.000	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
324	19.900	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
325	19.800	8.93	0.70	0.05	0.00	0.00	0.00	0.00	0.00	1.36	1.36	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
AVG 20 DEG C RATE			0.69	0.05	0.00	0.00	0.00	0.00	0.00	1.29			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
304	21.900	20.88	0.08	12.10	143.00	7.01	6.98	0.00	6.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.97
305	21.800	20.88	0.08	12.10	143.00	6.44	6.99	0.00	6.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.90
306	21.700	20.88	0.08	12.10	143.00	6.08	7.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.84
307	21.600	20.88	0.08	12.10	143.00	5.86	7.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
308	21.500	20.88	0.08	12.10	143.00	5.73	7.01	0.00	7.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.76
309	21.400	20.88	0.08	12.10	143.00	5.65	7.02	0.00	7.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.74
310	21.300	20.88	0.08	12.10	143.00	5.60	7.03	0.00	7.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
311	21.200	20.88	0.08	12.10	143.00	5.57	7.03	0.00	7.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.70
312	21.100	20.88	0.08	12.10	143.00	5.55	7.04	0.00	7.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.69
313	21.000	20.88	0.08	12.10	143.00	5.55	7.04	0.00	7.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.68
314	20.900	20.88	0.08	12.10	143.00	5.54	7.05	0.00	7.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.68
315	20.800	20.88	0.08	12.10	143.00	5.54	7.06	0.00	7.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.67
316	20.700	20.88	0.08	12.10	143.00	5.54	7.06	0.00	7.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.67
317	20.600	20.88	0.08	12.10	143.00	5.54	7.07	0.00	7.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.66
318	20.500	20.88	0.08	12.10	143.00	5.54	7.07	0.00	7.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.66
319	20.400	20.88	0.08	12.10	143.00	5.54	7.08	0.00	7.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.66
320	20.300	20.88	0.08	12.10	143.00	5.54	7.08	0.00	7.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.66

321	20.200	20.88	0.08	12.10	143.00	5.54	7.09	0.00	7.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.66
322	20.100	20.88	0.08	12.10	143.00	5.54	7.09	0.00	7.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.66
323	20.000	20.88	0.08	12.10	143.00	5.54	7.09	0.00	7.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.66
324	19.900	20.88	0.08	12.10	143.00	5.54	7.10	0.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.66
325	19.800	20.88	0.08	12.10	143.00	5.54	7.10	0.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.65

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 10 Grand Bayou 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
326	UPR RCH	0.02800	20.88	0.08	12.10	143.00	5.54	7.10	0.00	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.65
327	WSTLD	0.02800	0.00	0.00	19.40	207.70	7.92	7.01	0.00	7.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09

********** 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
326	19.80	19.70	0.02800	0.0	0.00057	2.04	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
327	19.70	19.60	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
328	19.60	19.50	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
329	19.50	19.40	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
330	19.40	19.30	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
331	19.30	19.20	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
332	19.20	19.10	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
333	19.10	19.00	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
334	19.00	18.90	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
335	18.90	18.80	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
336	18.80	18.70	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
337	18.70	18.60	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
338	18.60	18.50	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
339	18.50	18.40	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
340	18.40	18.30	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
341	18.30	18.20	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
342	18.20	18.10	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
343	18.10	18.00	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
344	18.00	17.90	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
345	17.90	17.80	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
346	17.80	17.70	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
347	17.70	17.60	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
348	17.60	17.50	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
349	17.50	17.40	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
350	17.40	17.30	0.05600	50.0	0.00114	1.02	1.51	32.50	4923.75	3250.00	49.24	0.00	0.000	0.000	0.001
TOT						26.46			123093.75	81250.00					
AVG					0.00109		1.51	32.50			49.24				
CUM						44.12									

********** 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
326	19.700	8.93	0.45	0.05	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	0.00	0.00	0.00	0.38	0.00
327	19.600	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
328	19.500	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
329	19.400	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
330	19.300	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
331	19.200	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
332	19.100	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
333	19.000	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
334	18.900	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
335	18.800	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
336	18.700	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
337	18.600	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
338	18.500	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
339	18.400	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
340	18.300	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
341	18.200	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
342	18.100	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
343	18.000	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
344	17.900	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
345	17.800	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
346	17.700	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
347	17.600	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
348	17.500	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
349	17.400	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
350	17.300	8.93	0.46	0.05	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	0.00	0.00	0.00	0.38	0.00
AVG 20 DEG C RATE			0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.51			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
326	19.700	20.88	0.08	12.10	143.00	5.16	6.75	0.00	6.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.26
327	19.600	20.88	0.08	15.75	175.35	5.95	6.71	0.00	6.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.41
328	19.500	20.88	0.08	15.75	175.35	5.60	6.54	0.00	6.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.23
329	19.400	20.88	0.08	15.75	175.35	5.41	6.39	0.00	6.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.09
330	19.300	20.88	0.08	15.75	175.35	5.30	6.24	0.00	6.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
331	19.200	20.88	0.08	15.75	175.35	5.26	6.10	0.00	6.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.92
332	19.100	20.88	0.08	15.75	175.35	5.24	5.96	0.00	5.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.87
333	19.000	20.88	0.08	15.75	175.35	5.25	5.83	0.00	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
334	18.900	20.88	0.08	15.75	175.35	5.26	5.71	0.00	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.81
335	18.800	20.88	0.08	15.75	175.35	5.28	5.60	0.00	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.79
336	18.700	20.88	0.08	15.75	175.35	5.30	5.49	0.00	5.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.78
337	18.600	20.88	0.08	15.75	175.35	5.32	5.39	0.00	5.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.77
338	18.500	20.88	0.08	15.75	175.35	5.34	5.29	0.00	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.76

339	18.400	20.88	0.08	15.75	175.35	5.36	5.19	0.00	5.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.76
340	18.300	20.88	0.08	15.75	175.35	5.38	5.11	0.00	5.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.75
341	18.200	20.88	0.08	15.75	175.35	5.39	5.02	0.00	5.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.75
342	18.100	20.88	0.08	15.75	175.35	5.41	4.94	0.00	4.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.75
343	18.000	20.88	0.08	15.75	175.35	5.42	4.87	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.75
344	17.900	20.88	0.08	15.75	175.35	5.43	4.79	0.00	4.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.75
345	17.800	20.88	0.08	15.75	175.35	5.44	4.73	0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.75
346	17.700	20.88	0.08	15.75	175.35	5.45	4.66	0.00	4.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.75
347	17.600	20.88	0.08	15.75	175.35	5.46	4.60	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.75
348	17.500	20.88	0.08	15.75	175.35	5.47	4.54	0.00	4.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.74
349	17.400	20.88	0.08	15.75	175.35	5.48	4.48	0.00	4.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.74
350	17.300	20.88	0.08	15.75	175.35	5.48	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.74

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 11 Grand Bayou 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
351	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.48	4.43	0.00	4.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74

********** 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
351	17.30	17.20	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
352	17.20	17.10	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
353	17.10	17.00	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
354	17.00	16.90	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
355	16.90	16.80	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
356	16.80	16.70	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
357	16.70	16.60	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
358	16.60	16.50	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
359	16.50	16.40	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
360	16.40	16.30	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
361	16.30	16.20	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
362	16.20	16.10	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
363	16.10	16.00	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
364	16.00	15.90	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
365	15.90	15.80	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
366	15.80	15.70	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
367	15.70	15.60	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
368	15.60	15.50	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
369	15.50	15.40	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
370	15.40	15.30	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
371	15.30	15.20	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
372	15.20	15.10	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
373	15.10	15.00	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002
374	15.00	14.90	0.05600	50.0	0.00171	0.68	1.12	29.26	3277.12	2926.00	32.77	0.00	0.000	0.000	0.002

TOT							16.26						78650.88	70224.00									
AVG						0.00171			1.12	29.26					32.77								
CUM							60.38																

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
351	17.200	8.93	0.63	0.05	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	0.38	0.00
352	17.100	8.93	0.63	0.05	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	0.38	0.00
353	17.000	8.93	0.63	0.05	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	0.38	0.00
354	16.900	8.93	0.63	0.05	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	0.38	0.00
355	16.800	8.93	0.63	0.05	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	0.38	0.00
356	16.700	8.93	0.63	0.05	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	0.38	0.00
357	16.600	8.93	0.63	0.05	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	0.38	0.00
358	16.500	8.93	0.63	0.05	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	0.38	0.00
359	16.400	8.93	0.63	0.05	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	0.38	0.00
360	16.300	8.93	0.63	0.05	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	0.38	0.00
361	16.200	8.93	0.63	0.05	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	0.38	0.00
362	16.100	8.93	0.63	0.05	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	0.38	0.00
363	16.000	8.93	0.63	0.05	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	0.38	0.00
364	15.900	8.93	0.63	0.05	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	0.38	0.00
365	15.800	8.93	0.63	0.05	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	0.38	0.00
366	15.700	8.93	0.63	0.05	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	0.38	0.00
367	15.600	8.93	0.63	0.05	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	0.38	0.00
368	15.500	8.93	0.63	0.05	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	0.38	0.00
369	15.400	8.93	0.63	0.05	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	0.38	0.00
370	15.300	8.93	0.63	0.05	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	0.38	0.00
371	15.200	8.93	0.63	0.05	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	0.38	0.00
372	15.100	8.93	0.63	0.05	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	0.38	0.00
373	15.000	8.93	0.63	0.05	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	0.38	0.00
374	14.900	8.93	0.63	0.05	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	0.38	0.00
AVG 20 DEG C RATE			0.61	0.05	0.00	0.00	0.00	0.00	0.00	1.80			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
351	17.200	20.88	0.08	15.75	175.35	5.45	4.28	0.00	4.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.80
352	17.100	20.88	0.08	15.75	175.35	5.42	4.13	0.00	4.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.84
353	17.000	20.88	0.08	15.75	175.35	5.40	3.99	0.00	3.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.87
354	16.900	20.88	0.08	15.75	175.35	5.38	3.86	0.00	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90
355	16.800	20.88	0.08	15.75	175.35	5.37	3.73	0.00	3.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.92
356	16.700	20.88	0.08	15.75	175.35	5.36	3.60	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.93
357	16.600	20.88	0.08	15.75	175.35	5.36	3.48	0.00	3.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.95
358	16.500	20.88	0.08	15.75	175.35	5.36	3.36	0.00	3.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.96
359	16.400	20.88	0.08	15.75	175.35	5.36	3.24	0.00	3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.97

360	16.300	20.88	0.08	15.75	175.35	5.36	3.13	0.00	3.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.97
361	16.200	20.88	0.08	15.75	175.35	5.36	3.03	0.00	3.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.98
362	16.100	20.88	0.08	15.75	175.35	5.36	2.92	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.98
363	16.000	20.88	0.08	15.75	175.35	5.37	2.82	0.00	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
364	15.900	20.88	0.08	15.75	175.35	5.37	2.73	0.00	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
365	15.800	20.88	0.08	15.75	175.35	5.38	2.64	0.00	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
366	15.700	20.88	0.08	15.75	175.35	5.38	2.55	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
367	15.600	20.88	0.08	15.75	175.35	5.39	2.46	0.00	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
368	15.500	20.88	0.08	15.75	175.35	5.40	2.37	0.00	2.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
369	15.400	20.88	0.08	15.75	175.35	5.40	2.29	0.00	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
370	15.300	20.88	0.08	15.75	175.35	5.41	2.22	0.00	2.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
371	15.200	20.88	0.08	15.75	175.35	5.41	2.14	0.00	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
372	15.100	20.88	0.08	15.75	175.35	5.42	2.07	0.00	2.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
373	15.000	20.88	0.08	15.75	175.35	5.43	2.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00
374	14.900	20.88	0.08	15.75	175.35	5.43	1.93	0.00	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.00

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 12 Grand Bayou 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
375	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.43	1.93	0.00	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW 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
375	14.90	14.80	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
376	14.80	14.70	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
377	14.70	14.60	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
378	14.60	14.50	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
379	14.50	14.40	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
380	14.40	14.30	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
381	14.30	14.20	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
382	14.20	14.10	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
383	14.10	14.00	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
384	14.00	13.90	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
385	13.90	13.80	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
386	13.80	13.70	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
387	13.70	13.60	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
388	13.60	13.50	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
389	13.50	13.40	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
390	13.40	13.30	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
391	13.30	13.20	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
392	13.20	13.10	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
393	13.10	13.00	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
394	13.00	12.90	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
395	12.90	12.80	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002

396	12.80	12.70	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
397	12.70	12.60	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
398	12.60	12.50	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
399	12.50	12.40	0.05600	50.0	0.00204	0.57	1.24	22.25	2747.88	2225.00	27.48	0.00	0.000	0.000	0.002
TOT						14.20			68696.88	55625.00					
AVG					0.00204		1.24	22.25			27.48				
CUM						74.57									

********** 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
375	14.800	8.93	0.57	0.05	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	0.38	0.00
376	14.700	8.93	0.57	0.05	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	0.38	0.00
377	14.600	8.93	0.57	0.05	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	0.38	0.00
378	14.500	8.93	0.57	0.05	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	0.38	0.00
379	14.400	8.93	0.57	0.05	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	0.38	0.00
380	14.300	8.93	0.57	0.05	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	0.38	0.00
381	14.200	8.93	0.57	0.05	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	0.38	0.00
382	14.100	8.93	0.57	0.05	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	0.38	0.00
383	14.000	8.93	0.57	0.05	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	0.38	0.00
384	13.900	8.93	0.57	0.05	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	0.38	0.00
385	13.800	8.93	0.57	0.05	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	0.38	0.00
386	13.700	8.93	0.57	0.05	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	0.38	0.00
387	13.600	8.93	0.57	0.05	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	0.38	0.00
388	13.500	8.93	0.57	0.05	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	0.38	0.00
389	13.400	8.93	0.57	0.05	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	0.38	0.00
390	13.300	8.93	0.57	0.05	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	0.38	0.00
391	13.200	8.93	0.57	0.05	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	0.38	0.00
392	13.100	8.93	0.57	0.05	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	0.38	0.00
393	13.000	8.93	0.57	0.05	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	0.38	0.00
394	12.900	8.93	0.57	0.05	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	0.38	0.00
395	12.800	8.93	0.57	0.05	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	0.38	0.00
396	12.700	8.93	0.57	0.05	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	0.38	0.00
397	12.600	8.93	0.57	0.05	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	0.38	0.00
398	12.500	8.93	0.57	0.05	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	0.38	0.00
399	12.400	8.93	0.57	0.05	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	0.38	0.00
AVG 20 DEG C RATE			0.56	0.05	0.00	0.00	0.00	0.00	0.00	1.83			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
375	14.800	20.88	0.08	15.75	175.35	5.42	1.87	0.00	1.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.98
376	14.700	20.88	0.08	15.75	175.35	5.41	1.82	0.00	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.96
377	14.600	20.88	0.08	15.75	175.35	5.40	1.77	0.00	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.94
378	14.500	20.88	0.08	15.75	175.35	5.41	1.72	0.00	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.93

379	14.400	20.88	0.08	15.75	175.35	5.41	1.67	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.92
380	14.300	20.88	0.08	15.75	175.35	5.41	1.62	0.00	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.91
381	14.200	20.88	0.08	15.75	175.35	5.42	1.57	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.91
382	14.100	20.88	0.08	15.75	175.35	5.43	1.53	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90
383	14.000	20.88	0.08	15.75	175.35	5.43	1.48	0.00	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.90
384	13.900	20.88	0.08	15.75	175.35	5.44	1.44	0.00	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
385	13.800	20.88	0.08	15.75	175.35	5.45	1.40	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
386	13.700	20.88	0.08	15.75	175.35	5.45	1.36	0.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
387	13.600	20.88	0.08	15.75	175.35	5.46	1.32	0.00	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.89
388	13.500	20.88	0.08	15.75	175.35	5.46	1.28	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
389	13.400	20.88	0.08	15.75	175.35	5.47	1.25	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
390	13.300	20.88	0.08	15.75	175.35	5.47	1.21	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
391	13.200	20.88	0.08	15.75	175.35	5.48	1.18	0.00	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
392	13.100	20.88	0.08	15.75	175.35	5.48	1.14	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
393	13.000	20.88	0.08	15.75	175.35	5.49	1.11	0.00	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
394	12.900	20.88	0.08	15.75	175.35	5.49	1.08	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
395	12.800	20.88	0.08	15.75	175.35	5.49	1.05	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
396	12.700	20.88	0.08	15.75	175.35	5.50	1.02	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
397	12.600	20.88	0.08	15.75	175.35	5.50	0.99	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
398	12.500	20.88	0.08	15.75	175.35	5.50	0.96	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88
399	12.400	20.88	0.08	15.75	175.35	5.51	0.93	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.88

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 13 Grand Bayou 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
400	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.51	0.93	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88

********** 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
400	12.40	12.30	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
401	12.30	12.20	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
402	12.20	12.10	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
403	12.10	12.00	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
404	12.00	11.90	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
405	11.90	11.80	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
406	11.80	11.70	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
407	11.70	11.60	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
408	11.60	11.50	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
409	11.50	11.40	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
410	11.40	11.30	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
411	11.30	11.20	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
412	11.20	11.10	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
413	11.10	11.00	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
414	11.00	10.90	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001

415	10.90	10.80	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
416	10.80	10.70	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
417	10.70	10.60	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
418	10.60	10.50	0.05600	50.0	0.00142	0.81	1.40	28.10	3934.00	2810.00	39.34	0.00	0.000	0.000	0.001
TOT						15.45			74746.00	53390.00					
AVG					0.00142		1.40	28.10			39.34				
CUM						90.02									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
400	12.300	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
401	12.200	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
402	12.100	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
403	12.000	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
404	11.900	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
405	11.800	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
406	11.700	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
407	11.600	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
408	11.500	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
409	11.400	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
410	11.300	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
411	11.200	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
412	11.100	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
413	11.000	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
414	10.900	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
415	10.800	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
416	10.700	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
417	10.600	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
418	10.500	8.93	0.50	0.05	0.00	0.00	0.00	0.00	0.00	1.70	1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
AVG 20 DEG C RATE			0.49	0.05	0.00	0.00	0.00	0.00	0.00	1.61			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
400	12.300	20.88	0.08	15.75	175.35	5.56	0.89	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.92
401	12.200	20.88	0.08	15.75	175.35	5.59	0.86	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.95
402	12.100	20.88	0.08	15.75	175.35	5.61	0.82	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.97
403	12.000	20.88	0.08	15.75	175.35	5.62	0.79	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	0.99
404	11.900	20.88	0.08	15.75	175.35	5.62	0.76	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.01
405	11.800	20.88	0.08	15.75	175.35	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.	1.02
406	11.700	20.88	0.08	15.75	175.35	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.	1.02
407	11.600	20.88	0.08	15.75	175.35	5.63	0.67	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.03
408	11.500	20.88	0.08	15.75	175.35	5.63	0.64	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.04
409	11.400	20.88	0.08	15.75	175.35	5.63	0.62	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.04

410	11.300	20.88	0.08	15.75	175.35	5.63	0.59	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.04
411	11.200	20.88	0.08	15.75	175.35	5.63	0.57	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.04
412	11.100	20.88	0.08	15.75	175.35	5.63	0.54	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.05
413	11.000	20.88	0.08	15.75	175.35	5.63	0.52	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.05
414	10.900	20.88	0.08	15.75	175.35	5.63	0.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.05
415	10.800	20.88	0.08	15.75	175.35	5.63	0.48	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.05
416	10.700	20.88	0.08	15.75	175.35	5.63	0.46	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.05
417	10.600	20.88	0.08	15.75	175.35	5.63	0.44	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.05
418	10.500	20.88	0.08	15.75	175.35	5.63	0.42	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.05

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 14 Grand Bayou 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
419	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.63	0.42	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
419	10.50	10.40	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
420	10.40	10.30	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
421	10.30	10.20	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
422	10.20	10.10	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
423	10.10	10.00	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
424	10.00	9.90	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
425	9.90	9.80	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
426	9.80	9.70	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
427	9.70	9.60	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
428	9.60	9.50	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
429	9.50	9.40	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
430	9.40	9.30	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
431	9.30	9.20	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
432	9.20	9.10	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
433	9.10	9.00	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
434	9.00	8.90	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
435	8.90	8.80	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
436	8.80	8.70	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
437	8.70	8.60	0.05600	50.0	0.00096	1.20	1.59	36.70	5816.95	3670.00	58.17	0.00	0.000	0.000	0.001
TOT						22.84			110522.07	69730.00					
AVG					0.00096		1.58	36.70			58.17				
CUM						112.87									

********** 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
419	10.400	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
420	10.300	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
421	10.200	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
422	10.100	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
423	10.000	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
424	9.900	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
425	9.800	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
426	9.700	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
427	9.600	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
428	9.500	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
429	9.400	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
430	9.300	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
431	9.200	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
432	9.100	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
433	9.000	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
434	8.900	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
435	8.800	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
436	8.700	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
437	8.600	8.93	0.44	0.05	0.00	0.00	0.00	0.00	0.00	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00

AVG 20 DEG C RATE	0.43	0.05	0.00	0.00	0.00	0.00	0.00	1.21			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
419	10.400	20.88	0.08	15.75	175.35	5.76	0.40	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
420	10.300	20.88	0.08	15.75	175.35	5.82	0.38	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.26
421	10.200	20.88	0.08	15.75	175.35	5.84	0.35	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.32
422	10.100	20.88	0.08	15.75	175.35	5.84	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.36
423	10.000	20.88	0.08	15.75	175.35	5.83	0.31	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.38
424	9.900	20.88	0.08	15.75	175.35	5.83	0.29	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.40
425	9.800	20.88	0.08	15.75	175.35	5.82	0.28	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.42
426	9.700	20.88	0.08	15.75	175.35	5.81	0.26	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.43
427	9.600	20.88	0.08	15.75	175.35	5.80	0.25	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.43
428	9.500	20.88	0.08	15.75	175.35	5.80	0.23	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
429	9.400	20.88	0.08	15.75	175.35	5.79	0.22	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
430	9.300	20.88	0.08	15.75	175.35	5.79	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
431	9.200	20.88	0.08	15.75	175.35	5.79	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
432	9.100	20.88	0.08	15.75	175.35	5.79	0.18	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
433	9.000	20.88	0.08	15.75	175.35	5.79	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
434	8.900	20.88	0.08	15.75	175.35	5.79	0.16	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
435	8.800	20.88	0.08	15.75	175.35	5.79	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
436	8.700	20.88	0.08	15.75	175.35	5.79	0.14	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44
437	8.600	20.88	0.08	15.75	175.35	5.79	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.44

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 15 Grand Bayou 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
438	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.79	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44

********** 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
438	8.60	8.50	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
439	8.50	8.40	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
440	8.40	8.30	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
441	8.30	8.20	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
442	8.20	8.10	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
443	8.10	8.00	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
444	8.00	7.90	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
445	7.90	7.80	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
446	7.80	7.70	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
447	7.70	7.60	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
448	7.60	7.50	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
449	7.50	7.40	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
450	7.40	7.30	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
451	7.30	7.20	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
452	7.20	7.10	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
453	7.10	7.00	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
454	7.00	6.90	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
455	6.90	6.80	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
456	6.80	6.70	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
457	6.70	6.60	0.05600	50.0	0.00103	1.12	1.64	32.92	5415.34	3292.00	54.15	0.00	0.000	0.000	0.001
TOT						22.38			108306.83	65839.99					
AVG					0.00103		1.65	32.92			54.15				
CUM						135.25									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
438	8.500	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
439	8.400	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
440	8.300	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
441	8.200	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
442	8.100	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
443	8.000	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
444	7.900	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
445	7.800	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
446	7.700	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
447	7.600	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
448	7.500	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
449	7.400	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
450	7.300	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
451	7.200	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
452	7.100	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
453	7.000	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
454	6.900	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
455	6.800	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00

456	6.700	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
457	6.600	8.93	0.42	0.05	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
AVG 20 DEG C RATE			0.41	0.05	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	0.36	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
438	8.500	20.88	0.08	15.75	175.35	5.71	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.35
439	8.400	20.88	0.08	15.75	175.35	5.67	0.12	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.29
440	8.300	20.88	0.08	15.75	175.35	5.66	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
441	8.200	20.88	0.08	15.75	175.35	5.66	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.21
442	8.100	20.88	0.08	15.75	175.35	5.66	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.19
443	8.000	20.88	0.08	15.75	175.35	5.67	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.17
444	7.900	20.88	0.08	15.75	175.35	5.68	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.16
445	7.800	20.88	0.08	15.75	175.35	5.69	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.15
446	7.700	20.88	0.08	15.75	175.35	5.70	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.15
447	7.600	20.88	0.08	15.75	175.35	5.71	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
448	7.500	20.88	0.08	15.75	175.35	5.71	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
449	7.400	20.88	0.08	15.75	175.35	5.72	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
450	7.300	20.88	0.08	15.75	175.35	5.72	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
451	7.200	20.88	0.08	15.75	175.35	5.72	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
452	7.100	20.88	0.08	15.75	175.35	5.73	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
453	7.000	20.88	0.08	15.75	175.35	5.73	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
454	6.900	20.88	0.08	15.75	175.35	5.73	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
455	6.800	20.88	0.08	15.75	175.35	5.73	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
456	6.700	20.88	0.08	15.75	175.35	5.73	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14
457	6.600	20.88	0.08	15.75	175.35	5.73	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.14

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 16 Grand Bayou 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
458	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.73	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14

********** 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
458	6.60	6.50	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
459	6.50	6.40	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
460	6.40	6.30	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
461	6.30	6.20	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
462	6.20	6.10	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
463	6.10	6.00	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
464	6.00	5.90	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
465	5.90	5.80	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
466	5.80	5.70	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
467	5.70	5.60	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
468	5.60	5.50	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
469	5.50	5.40	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
470	5.40	5.30	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
471	5.30	5.20	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
472	5.20	5.10	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
473	5.10	5.00	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
474	5.00	4.90	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
475	4.90	4.80	0.05600	50.0	0.00104	1.11	1.52	35.35	5373.20	3535.00	53.73	0.00	0.000	0.000	0.001
TOT						19.99			96717.61	63630.00					
AVG					0.00104		1.52	35.35			53.73				
CUM						155.24									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
458	6.500	8.93	0.45	0.05	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	0.38	0.00
459	6.400	8.93	0.45	0.05	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	0.38	0.00
460	6.300	8.93	0.45	0.05	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	0.38	0.00
461	6.200	8.93	0.45	0.05	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	0.38	0.00
462	6.100	8.93	0.45	0.05	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	0.38	0.00
463	6.000	8.93	0.45	0.05	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	0.38	0.00
464	5.900	8.93	0.45	0.05	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	0.38	0.00
465	5.800	8.93	0.45	0.05	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	0.38	0.00
466	5.700	8.93	0.45	0.05	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	0.38	0.00
467	5.600	8.93	0.45	0.05	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	0.38	0.00
468	5.500	8.93	0.45	0.05	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	0.38	0.00
469	5.400	8.93	0.45	0.05	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	0.38	0.00
470	5.300	8.93	0.45	0.05	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	0.38	0.00
471	5.200	8.93	0.45	0.05	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	0.38	0.00
472	5.100	8.93	0.45	0.05	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	0.38	0.00
473	5.000	8.93	0.45	0.05	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	0.38	0.00
474	4.900	8.93	0.45	0.05	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	0.38	0.00
475	4.800	8.93	0.45	0.05	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	0.38	0.00
AVG 20 DEG C RATE			0.45	0.05	0.00	0.00	0.00	0.00	0.00	1.36			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
458	6.500	20.88	0.08	15.75	175.35	5.77	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.18
459	6.400	20.88	0.08	15.75	175.35	5.79	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.22
460	6.300	20.88	0.08	15.75	175.35	5.79	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.24
461	6.200	20.88	0.08	15.75	175.35	5.79	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.26
462	6.100	20.88	0.08	15.75	175.35	5.79	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.27
463	6.000	20.88	0.08	15.75	175.35	5.78	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.28
464	5.900	20.88	0.08	15.75	175.35	5.78	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.29
465	5.800	20.88	0.08	15.75	175.35	5.77	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.29
466	5.700	20.88	0.08	15.75	175.35	5.77	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.29
467	5.600	20.88	0.08	15.75	175.35	5.77	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.29
468	5.500	20.88	0.08	15.75	175.35	5.76	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
469	5.400	20.88	0.08	15.75	175.35	5.76	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
470	5.300	20.88	0.08	15.75	175.35	5.76	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
471	5.200	20.88	0.08	15.75	175.35	5.76	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
472	5.100	20.88	0.08	15.75	175.35	5.76	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
473	5.000	20.88	0.08	15.75	175.35	5.76	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
474	4.900	20.88	0.08	15.75	175.35	5.76	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30
475	4.800	20.88	0.08	15.75	175.35	5.76	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.30

FINAL REPORT Grand Bayou LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
REACH NO. 17 Grand Bayou 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
476	UPR RCH	0.05600	20.88	0.08	15.75	175.35	5.76	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
476	4.80	4.70	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
477	4.70	4.60	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
478	4.60	4.50	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
479	4.50	4.40	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
480	4.40	4.30	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
481	4.30	4.20	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
482	4.20	4.10	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
483	4.10	4.00	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
484	4.00	3.90	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001

485	3.90	3.80	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
486	3.80	3.70	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
487	3.70	3.60	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
488	3.60	3.50	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
489	3.50	3.40	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
490	3.40	3.30	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
491	3.30	3.20	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
492	3.20	3.10	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
493	3.10	3.00	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
494	3.00	2.90	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
495	2.90	2.80	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
496	2.80	2.70	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
497	2.70	2.60	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
498	2.60	2.50	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
499	2.50	2.40	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
500	2.40	2.30	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
501	2.30	2.20	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
502	2.20	2.10	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
503	2.10	2.00	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
504	2.00	1.90	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
505	1.90	1.80	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
506	1.80	1.70	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
507	1.70	1.60	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
508	1.60	1.50	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
509	1.50	1.40	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
510	1.40	1.30	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
511	1.30	1.20	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
512	1.20	1.10	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
513	1.10	1.00	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
514	1.00	0.90	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
515	0.90	0.80	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
516	0.80	0.70	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
517	0.70	0.60	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
518	0.60	0.50	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
519	0.50	0.40	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
520	0.40	0.30	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
521	0.30	0.20	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
522	0.20	0.10	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
523	0.10	0.00	0.05600	50.0	0.00080	1.45	2.04	34.42	7021.68	3442.00	70.22	0.00	0.000	0.000	0.001
TOT						69.66			337040.84	165215.98					
AVG					0.00080		2.04	34.42			70.22				
CUM						224.90									

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

ELEM NO.	ENDING DIST	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#2 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	BKGD SOD *	FULL SOD *	CORR SOD *	ORGN DECAY 1/da	ORGN SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
476	4.700	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
477	4.600	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
478	4.500	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
479	4.400	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
480	4.300	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
481	4.200	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
482	4.100	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
483	4.000	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
484	3.900	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
485	3.800	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
486	3.700	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
487	3.600	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
488	3.500	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
489	3.400	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
490	3.300	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
491	3.200	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
492	3.100	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
493	3.000	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
494	2.900	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
495	2.800	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
496	2.700	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
497	2.600	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
498	2.500	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
499	2.400	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
500	2.300	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
501	2.200	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
502	2.100	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
503	2.000	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
504	1.900	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
505	1.800	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
506	1.700	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
507	1.600	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
508	1.500	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
509	1.400	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
510	1.300	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
511	1.200	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
512	1.100	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
513	1.000	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
514	0.900	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
515	0.800	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
516	0.700	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
517	0.600	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
518	0.500	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
519	0.400	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
520	0.300	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
521	0.200	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
522	0.100	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
523	0.000	8.93	0.34	0.05	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00
AVG 20 DEG C RATE			0.33	0.05	0.00	0.00	0.00	0.00	0.00	0.66			0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.36	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
476	4.700	20.88	0.08	15.75	175.35	5.91	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.48
477	4.600	20.88	0.08	15.75	175.35	5.98	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.59
478	4.500	20.88	0.08	15.75	175.35	5.99	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.67
479	4.400	20.88	0.08	15.75	175.35	5.98	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.72
480	4.300	20.88	0.08	15.75	175.35	5.97	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.75
481	4.200	20.88	0.08	15.75	175.35	5.95	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.77
482	4.100	20.88	0.08	15.75	175.35	5.93	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.78
483	4.000	20.88	0.08	15.75	175.35	5.92	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.79
484	3.900	20.88	0.08	15.75	175.35	5.91	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.79
485	3.800	20.88	0.08	15.75	175.35	5.90	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
486	3.700	20.88	0.08	15.75	175.35	5.89	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
487	3.600	20.88	0.09	15.75	175.35	5.89	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
488	3.500	20.88	0.09	15.75	175.35	5.88	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
489	3.400	20.88	0.09	15.75	175.35	5.88	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
490	3.300	20.88	0.09	15.75	175.35	5.88	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
491	3.200	20.88	0.09	15.75	175.35	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
492	3.100	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
493	3.000	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
494	2.900	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
495	2.800	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
496	2.700	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
497	2.600	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
498	2.500	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
499	2.400	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
500	2.300	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
501	2.200	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
502	2.100	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
503	2.000	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
504	1.900	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
505	1.800	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
506	1.700	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
507	1.600	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
508	1.500	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
509	1.400	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
510	1.300	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
511	1.200	20.88	0.09	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
512	1.100	20.88	0.10	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
513	1.000	20.88	0.10	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
514	0.900	20.88	0.10	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
515	0.800	20.88	0.10	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
516	0.700	20.88	0.10	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
517	0.600	20.88	0.10	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
518	0.500	20.88	0.10	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
519	0.400	20.88	0.10	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
520	0.300	20.88	0.10	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
521	0.200	20.88	0.10	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80
522	0.100	20.88	0.10	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80

523	0.000	20.88	0.10	15.75	175.35	5.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	1.80

STREAM SUMMARY
Grand Bayou

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
Winter Projection Meeting DO Standard of 5 mg/L

TRAVEL TIME	=	224.90	DAYS		
MAXIMUM EFFLUENT	=	50.00	PERCENT		
FLOW	=	0.02800	TO	0.05600	m^3/s
DISPERSION	=	0.0000	TO	0.0000	m^2/s
VELOCITY	=	0.00057	TO	0.00204	m/s
DEPTH	=	1.00	TO	2.04	m
WIDTH	=	19.50	TO	36.70	m
BOD DECAY	=	0.05	TO	0.05	per day
NH3 DECAY	=	0.00	TO	0.00	per day
SOD	=	0.70	TO	1.93	$g/m^2/d$
NH3 SOURCE	=	0.00	TO	0.00	$g/m^2/d$
REAERATION	=	0.34	TO	0.70	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	=	20.88	TO	20.88	deg C
DISSOLVED OXYGEN	=	5.16	TO	7.01	mg/L

LA-QUAL model for Bayou Boeuf System TMDL (subsegments 020102 an
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	0.084	57.8	47.3	0.0	0.0	0.0	0.0	0.0	0.0	10.2
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	0.112	76.6	70.1	0.0	0.0	0.0	0.0	0.0	0.0	16.7
WITHDRAWLS	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OUTFLOW THRU LOWER BNDRY	-0.196	-97.0	-91.6	0.0	0.0	0.0	0.0	0.0	0.0	-22.9
DISPERSION THRU LOWER BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	9818.1	0.0	0.0					3931.0
NATURAL REAERATION		17293.7								
DAM REAERATION		0.0								
BACKGROUND SOD		-3552.5								
BOD#1 DECAY		-9844.0	-9844.0							
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		-3935.1								-3935.1
NCM SETTLING		0.0								0.0
TOTAL INPUTS	0.196	17428.0	9935.5	0.0	0.0	0.0	0.0	0.0	0.0	3957.9
TOTAL OUTPUTS	-0.196	-17428.5	-9935.6	0.0	0.0	0.0	0.0	0.0	0.0	-3958.0
NET CONVERGENCE ERROR	0.000	-0.5	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1

.....EXECUTION COMPLETED