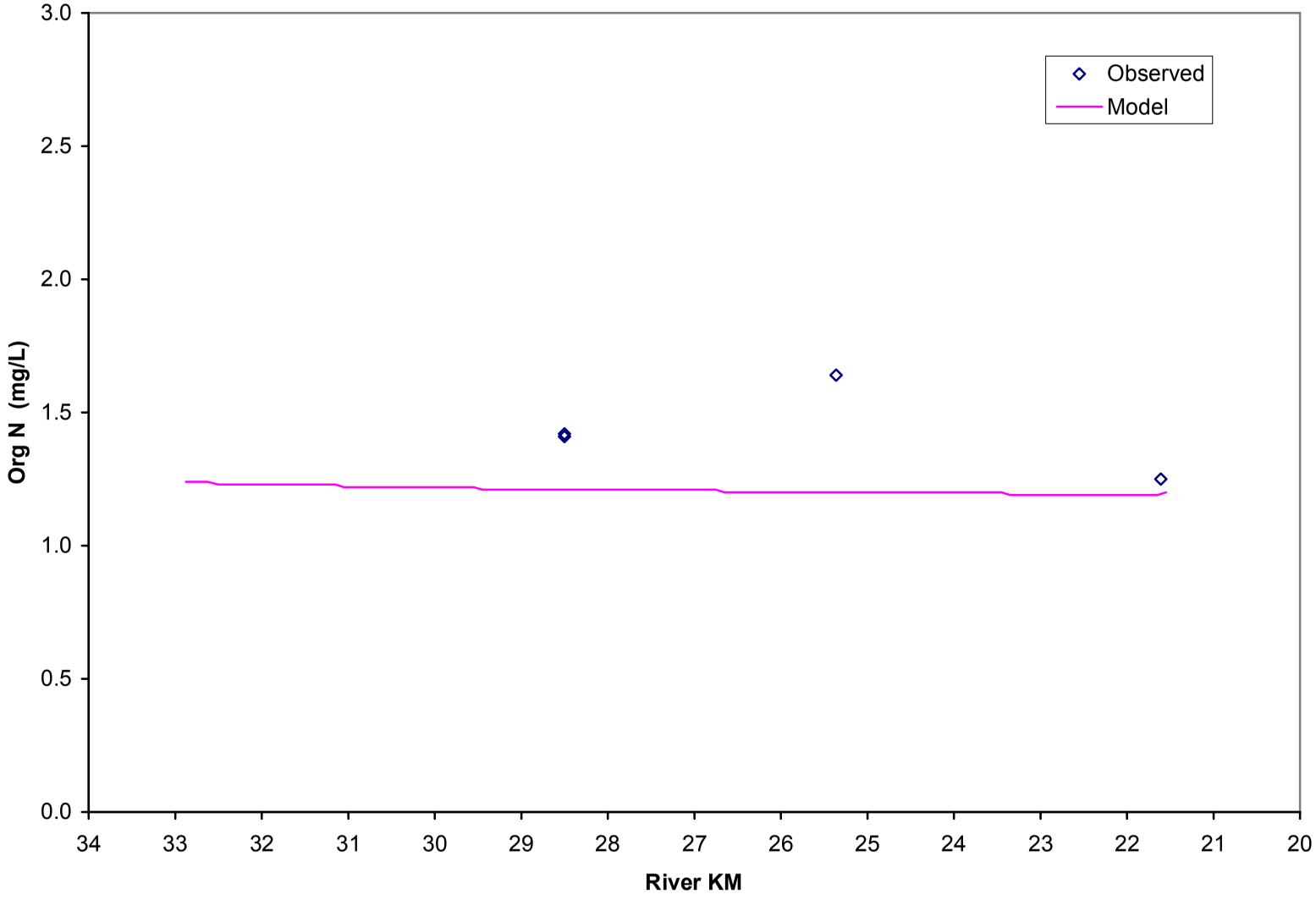
APPENDIX Q

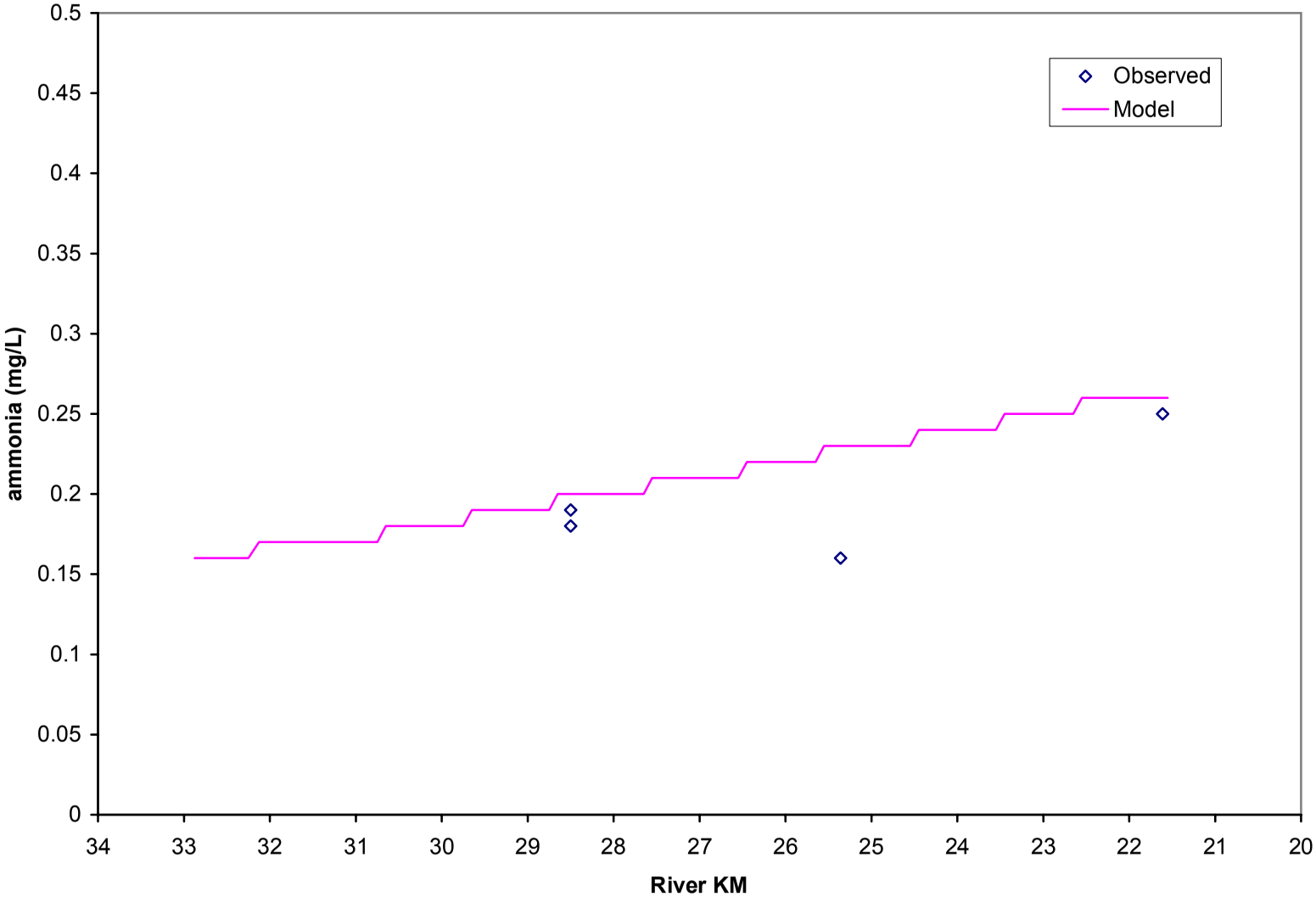
Adjusted Verification Output Plots

Figure Q-1. Adjusted Organic Nitrogen verification for Upper Bayou Des Allemands



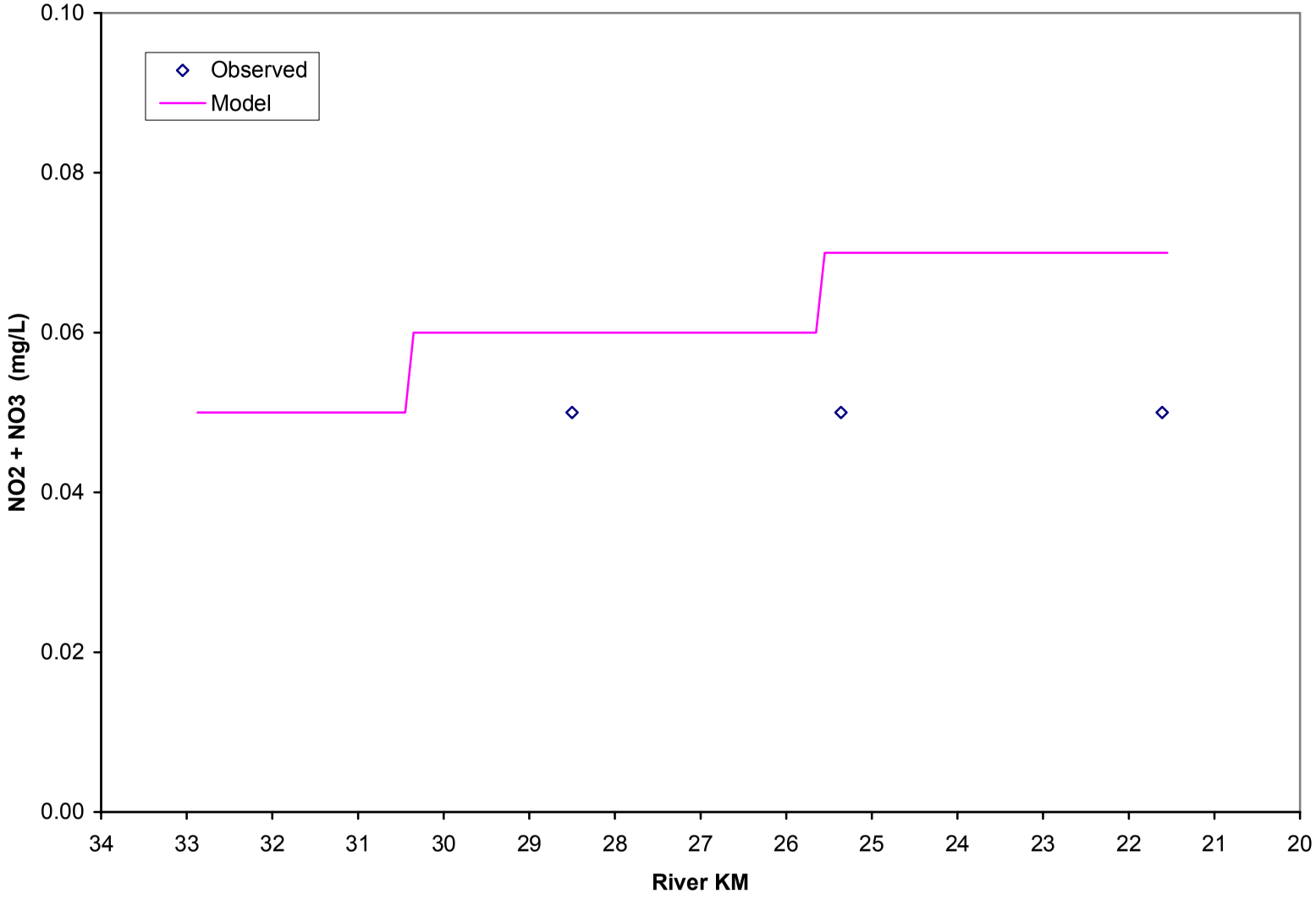
RUN2

Figure Q-2. Adjusted Ammonia verification for Upper Bayou Des Allemands



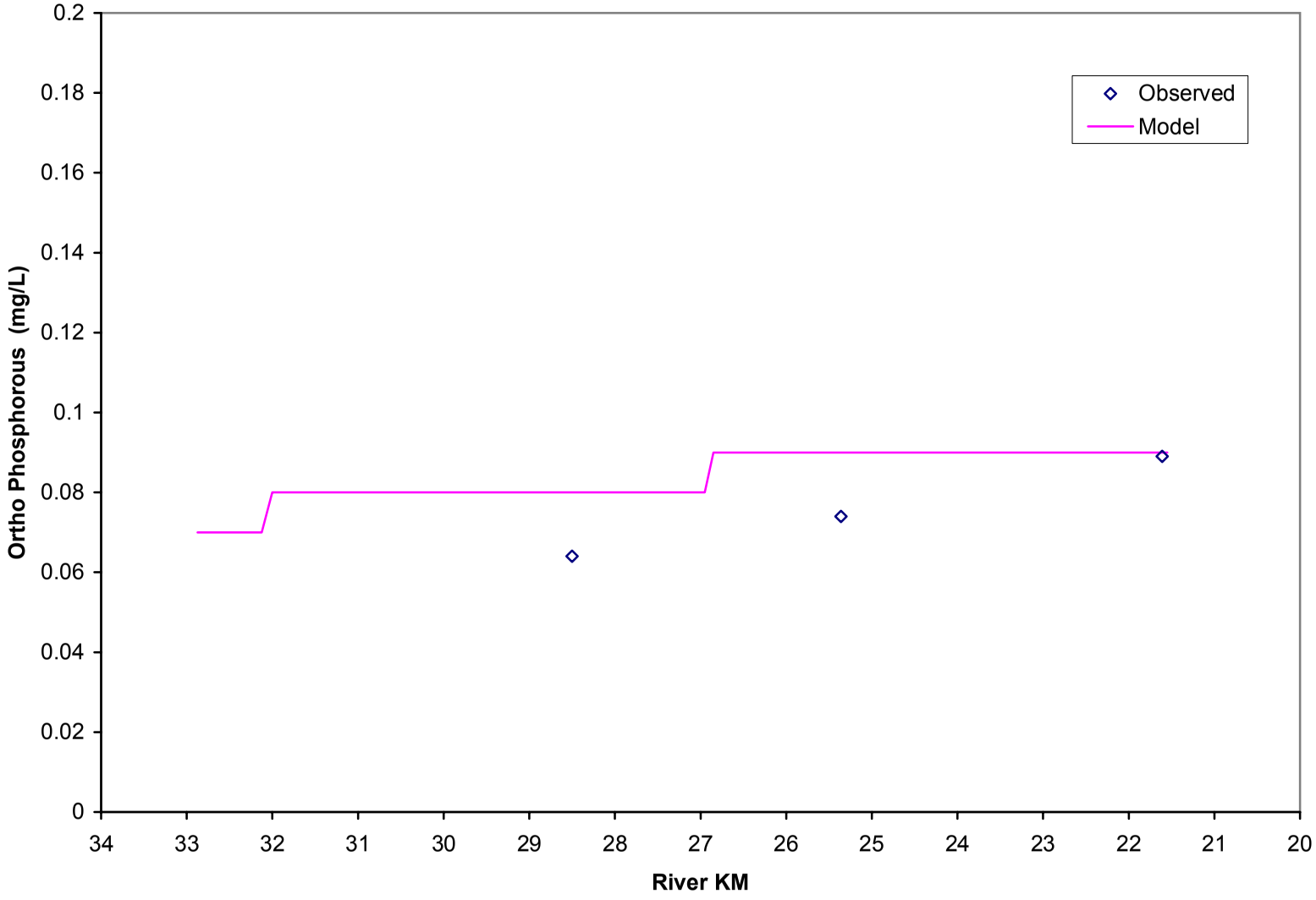
RUN2

Figure Q-3. Adjusted NO2+NO3 verification for Upper Bayou Des Allemands



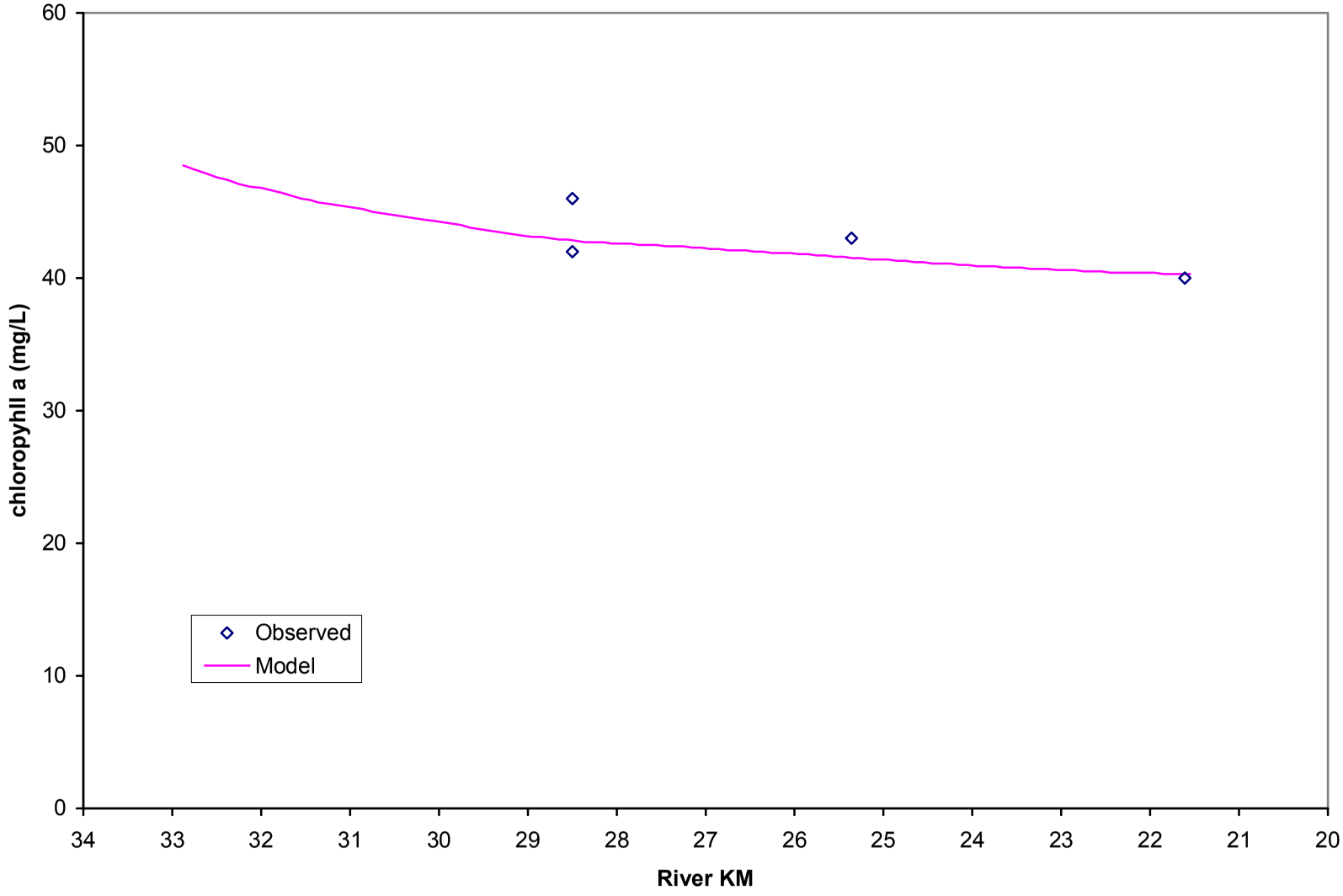
RUN2

Figure Q-4. Adjusted Phosphorus verification for Upper Bayou Des Allemands



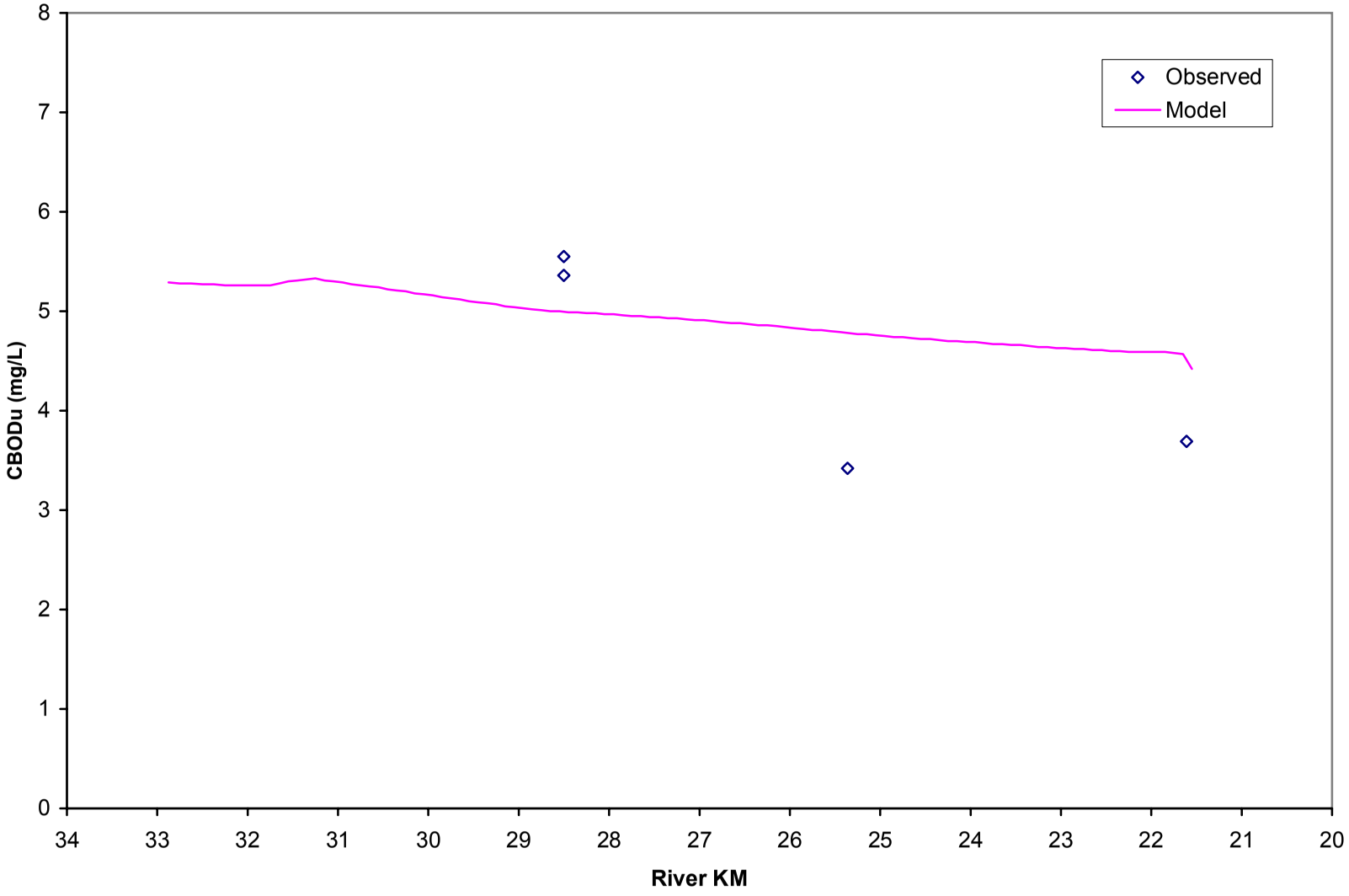
RUN2

Figure Q-5. Adjusted chlorophyll verification for Upper Bayou Des Allemands



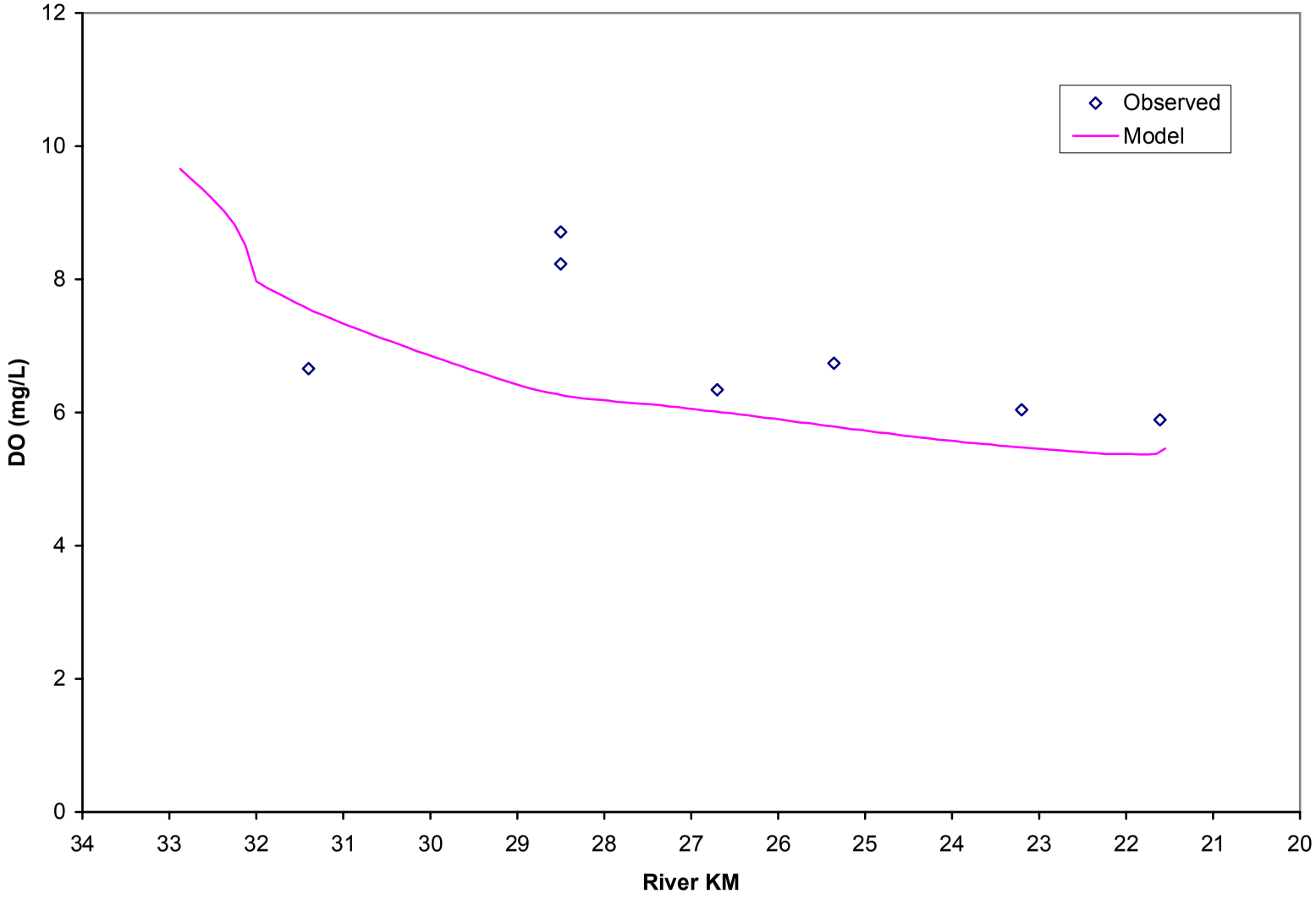
RUN2

Figure Q-6. Adjusted CBODu verification for Upper Bayou Des Allemands



RUN2

Figure Q-7. Adjusted DO verification for Upper Bayou Des Allemands



RUN2

APPENDIX R

Adjusted Calibration Output File Printout

```
1
        TEXAS WATER COMMISSION WATER QUALITY STREAM MODEL                                   01/23/04
        QUAL-TX     VERSION 3.3     UPDATED DECEMBER 3, 1990                                11:44:00


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

        CARD TYPE       CONTROL TITLES

        CNTROL01        QUAL-TX simulation for Upper Bayou Des Allemands, LA
        CNTROL02        Adjusted Calibration
        CNTROL03  YES   ECHO
        CNTROL04   NO   CAPS
        CNTROL05  YES   INTE
        CNTROL06  YES   FINA
        CNTROL07  YES   LOAD
        CNTROL08  YES   METR
        CNTROL09  YES   OXYG
        CNTROL10  YES   OVER
        ENDATA01


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

        CARD TYPE       MODEL OPTION

        MODOPT01   NO   TEMP
        MODOPT02   NO   SALI
        MODOPT04  YES   CONSERVATIVE MATERIAL I  = cond                    IN umhos
        MODOPT04   NO   CONS
        MODOPT05  YES   DISS
        MODOPT06  YES   BIOC
        MODOPT07  YES   NITR
        MODOPT08  YES   PHOS
        MODOPT09  YES   CHLO
        MODOPT10   NO   MACR
        MODOPT11   NO   COLI
        MODOPT12   NO   NONC
        ENDATA02


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

        CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

        PROGRAM         MAXIMUM ITERATION LIMIT            =      1500.00000
        PROGRAM         KL MININUM                         =         0.84000
```

```
PROGRAM          TOTAL DAILY RADIATION              =       416.00000
ENDATA03


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

CARD TYPE     RATE CODE     THETA VALUE

BSOD         BENTHAL        1.06500
THETA        NH3 DECA       1.07000
ENDATA04


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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA05


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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

LIGHT           LIGHT SATURATION CONSTANT          =        10.00000
ENDATA06


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

CARD TYPE       DESCRIPTION OF CONSTANT                        VALUE

ENDATA07


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

CARD TYPE	REACH	ID	NAME	BEGIN REACH KM		END REACH KM	ELEM LENGTH KM	REACH LENGTH KM	ELEMS PER RCH	BEGIN ELEM NUM	END ELEM NUM
REACH ID	1	DA	Bayou Des Allemands	33.00	TO	31.75	0.1250	1.25	10	1	10
REACH ID	2	DA	Bayou Des Allemands	31.75	TO	31.25	0.1000	0.50	5	11	15
REACH ID	3	DA	Bayou Des Allemands	31.25	TO	28.75	0.1000	2.50	25	16	40
REACH ID	4	DA	Bayou Des Allemands	28.75	TO	28.25	0.1000	0.50	5	41	45
REACH ID	5	DA	Bayou Des Allemands	28.25	TO	27.25	0.1000	1.00	10	46	55

REACH ID	6	DA	Bayou Des Allemands	27.25	TO	26.25	0.1000	1.00	10	56	65
REACH ID	7	DA	Bayou Des Allemands	26.25	TO	25.25	0.1000	1.00	10	66	75
REACH ID	8	DA	Bayou Des Allemands	25.25	TO	24.25	0.1000	1.00	10	76	85
REACH ID	9	DA	Bayou Des Allemands	24.25	TO	23.25	0.1000	1.00	10	86	95
REACH ID	10	DA	Bayou Des Allemands	23.25	TO	22.25	0.1000	1.00	10	96	105
REACH ID	11	DA	Bayou Des Allemands	22.25	TO	21.55	0.1000	0.70	7	106	112

ENDATA08

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

CARD TYPE	REACH	ID	VELOCITY "A"	VELOCITY "B"	DEPTH "C"	DEPTH "D"	DEPTH "E"	MANNINGS "N"
HYDR-1	1	DA	0.00045500	1.000	1.520	0.000	0.000	0.000
HYDR-1	2	DA	0.00055300	1.000	1.520	0.000	0.000	0.000
HYDR-1	3	DA	0.00065000	1.000	1.840	0.000	0.000	0.000
HYDR-1	4	DA	0.00098500	1.000	2.160	0.000	0.000	0.000
HYDR-1	5	DA	0.00178000	1.000	2.160	0.000	0.000	0.000
HYDR-1	6	DA	0.00147000	1.000	2.620	0.000	0.000	0.000
HYDR-1	7	DA	0.00125000	1.000	3.080	0.000	0.000	0.000
HYDR-1	8	DA	0.00125000	1.000	3.080	0.000	0.000	0.000
HYDR-1	9	DA	0.00138000	1.000	2.790	0.000	0.000	0.000
HYDR-1	10	DA	0.00154000	1.000	2.500	0.000	0.000	0.000
HYDR-1	11	DA	0.00368000	1.000	2.500	0.000	0.000	0.000

ENDATA09

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

CARD TYPE	REACH	ID	TIDAL RANGE	DISPERSION "A"	DISPERSION "B"	DISPERSION "C"	DISPERSION "D"
HYDR-2	1	DA	0.00	4.500	0.000	0.000	0.000
HYDR-2	2	DA	0.00	4.500	0.000	0.000	0.000
HYDR-2	3	DA	0.00	4.500	0.000	0.000	0.000
HYDR-2	4	DA	0.00	4.500	0.000	0.000	0.000
HYDR-2	5	DA	0.00	4.500	0.000	0.000	0.000
HYDR-2	6	DA	0.00	4.500	0.000	0.000	0.000
HYDR-2	7	DA	0.00	4.500	0.000	0.000	0.000
HYDR-2	8	DA	0.00	4.500	0.000	0.000	0.000
HYDR-2	9	DA	0.00	4.500	0.000	0.000	0.000
HYDR-2	10	DA	0.00	4.500	0.000	0.000	0.000
HYDR-2	11	DA	0.00	4.500	0.000	0.000	0.000

ENDATA10

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

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	DA	33.10	0.29	10.76	0.14	0.05	0.17	35.00	0.00
INITIAL	2	DA	33.10	0.29	10.76	0.14	0.05	0.17	35.00	0.00
INITIAL	3	DA	31.70	0.29	8.17	0.14	0.05	0.17	35.00	0.00
INITIAL	4	DA	30.30	0.28	5.58	0.14	0.05	0.17	35.00	0.00
INITIAL	5	DA	30.70	0.28	5.66	0.14	0.05	0.17	35.00	0.00
INITIAL	6	DA	31.10	0.28	5.73	0.23	0.05	0.17	34.00	0.00
INITIAL	7	DA	30.70	0.27	5.58	0.32	0.05	0.17	33.00	0.00
INITIAL	8	DA	30.70	0.27	5.37	0.38	0.05	0.15	32.00	0.00
INITIAL	9	DA	30.70	0.27	5.15	0.43	0.05	0.12	31.00	0.00
INITIAL	10	DA	30.70	0.27	5.15	0.43	0.05	0.12	31.00	0.00
INITIAL	11	DA	30.80	0.28	3.86	0.43	0.05	0.12	31.00	0.00

ENDATA11

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

CARD TYPE	REACH	ID	K2 OPT	K2 "A"	K2 "B"	K2 "C"	BKGRND SOD	AEROB BOD DECAY	BOD SETT	BOD CONV TO SOD	ANAER BOD DECAY
COEF-1	1	DA	3.	0.000	0.000	0.000	1.400	0.140	0.000	0.000	0.000
COEF-1	2	DA	3.	0.000	0.000	0.000	1.600	0.140	0.000	0.000	0.000
COEF-1	3	DA	3.	0.000	0.000	0.000	1.600	0.140	0.000	0.000	0.000
COEF-1	4	DA	3.	0.000	0.000	0.000	1.600	0.140	0.000	0.000	0.000
COEF-1	5	DA	3.	0.000	0.000	0.000	1.600	0.140	0.000	0.000	0.000
COEF-1	6	DA	3.	0.000	0.000	0.000	1.600	0.140	0.000	0.000	0.000
COEF-1	7	DA	3.	0.000	0.000	0.000	1.600	0.140	0.000	0.000	0.000
COEF-1	8	DA	3.	0.000	0.000	0.000	1.800	0.140	0.000	0.000	0.000
COEF-1	9	DA	3.	0.000	0.000	0.000	1.600	0.140	0.000	0.000	0.000
COEF-1	10	DA	3.	0.000	0.000	0.000	1.400	0.140	0.000	0.000	0.000
COEF-1	11	DA	3.	0.000	0.000	0.000	1.200	0.140	0.000	0.000	0.000

ENDATA12

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

CARD TYPE	REACH	ID	ORG-N DECA	ORG-N SETT	ORGN CONV TO NH3 SRCE	NH3 DECA	NH3 SRCE	PHOS SRCE	DENIT RATE
COEF-2	1	DA	0.02	0.00	1.00	0.10	0.04	0.04	0.00
COEF-2	2	DA	0.02	0.00	1.00	0.10	0.04	0.04	0.00
COEF-2	3	DA	0.02	0.00	1.00	0.10	0.08	0.03	0.00
COEF-2	4	DA	0.02	0.00	1.00	0.10	0.12	0.02	0.00
COEF-2	5	DA	0.02	0.00	1.00	0.10	0.18	0.02	0.00
COEF-2	6	DA	0.02	0.00	1.00	0.10	0.20	0.02	0.00

```
COEF-2          7  DA      0.02      0.00      1.00      0.10      0.20      0.02      0.00
COEF-2          8  DA      0.02      0.00      1.00      0.10      0.20      0.01      0.00
COEF-2          9  DA      0.02      0.00      1.00      0.10      0.22      0.00      0.00
COEF-2         10  DA      0.02      0.00      1.00      0.10      0.24      0.00      0.00
COEF-2         11  DA      0.02      0.00      1.00      0.10      0.26      0.00      0.00
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

COEF-3          1  DA      1.00      0.060     0.50      0.08        1.62      0.10      0.00      0.00
COEF-3          2  DA      1.00      0.060     0.50      0.08        1.62      0.10      0.00      0.00
COEF-3          3  DA      1.00      0.060     0.50      0.08        1.62      0.10      0.00      0.00
COEF-3          4  DA      1.00      0.060     0.50      0.08        1.62      0.10      0.00      0.00
COEF-3          5  DA      1.00      0.060     0.50      0.08        1.62      0.10      0.00      0.00
COEF-3          6  DA      1.00      0.060     0.50      0.08        1.62      0.10      0.00      0.00
COEF-3          7  DA      1.00      0.060     0.50      0.08        1.62      0.10      0.00      0.00
COEF-3          8  DA      1.00      0.060     0.50      0.08        1.62      0.10      0.00      0.00
COEF-3          9  DA      1.00      0.060     0.50      0.08        1.62      0.10      0.00      0.00
COEF-3         10  DA      1.00      0.060     0.50      0.08        1.62      0.10      0.00      0.00
COEF-3         11  DA      1.00      0.060     0.50      0.08        1.62      0.10      0.00      0.00
ENDATA14


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

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

ENDATA15


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

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

ENDATA16


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

CARD TYPE      REACH  ID          DO       BOD     ORG-N       NH3     NO3+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	ORG-N	COLI	NCM	DO
NONPOINT	1	DA	2400.00	0.00	0.00	0.00	0.00
NONPOINT	2	DA	1800.00	0.00	0.00	0.00	0.00
NONPOINT	3	DA	1200.00	0.00	0.00	0.00	0.00
NONPOINT	4	DA	300.00	0.00	0.00	0.00	0.00
NONPOINT	5	DA	60.00	0.00	0.00	0.00	0.00
NONPOINT	6	DA	60.00	0.00	0.00	0.00	0.00
NONPOINT	7	DA	60.00	0.00	0.00	0.00	0.00
NONPOINT	8	DA	150.00	0.00	0.00	0.00	0.00
NONPOINT	9	DA	150.00	0.00	0.00	0.00	0.00
NONPOINT	10	DA	150.00	0.00	0.00	0.00	0.00
NONPOINT	11	DA	60.00	0.00	0.00	0.00	0.00

ENDATA19

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

CARD TYPE	ELEMENT	NAME	UNIT	FLOW	TEMP	SALIN	CM-I	CM-II
HDWTR-1	1	Lake Des Allemands	0	84.29000	30.600	0.000	427.000	0.000

ENDATA20

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

CARD TYPE	ELEMENT	NAME	DO	BOD	ORG-N	NH3	NO3+2
HDWTR-2	1	Lake Des Allemands	7.32	3.79	1.58	0.12	0.05

ENDATA21

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

CARD TYPE	ELEMENT	NAME	PHOS	CHL A	COLI	NCM
HDWTR-3	1	Lake Des Allemands	0.12	51.00	0.00	0.00

ENDATA22

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	ORG-N	COLI	NCM	DO
NONPOINT	1	DA	2400.00	0.00	0.00	0.00	0.00
NONPOINT	2	DA	1800.00	0.00	0.00	0.00	0.00
NONPOINT	3	DA	1200.00	0.00	0.00	0.00	0.00
NONPOINT	4	DA	300.00	0.00	0.00	0.00	0.00
NONPOINT	5	DA	60.00	0.00	0.00	0.00	0.00
NONPOINT	6	DA	60.00	0.00	0.00	0.00	0.00
NONPOINT	7	DA	60.00	0.00	0.00	0.00	0.00
NONPOINT	8	DA	150.00	0.00	0.00	0.00	0.00
NONPOINT	9	DA	150.00	0.00	0.00	0.00	0.00
NONPOINT	10	DA	150.00	0.00	0.00	0.00	0.00
NONPOINT	11	DA	60.00	0.00	0.00	0.00	0.00

ENDATA19

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

CARD TYPE	ELEMENT	NAME	UNIT	FLOW	TEMP	SALIN	CM-I	CM-II
HDWTR-1	1	Lake Des Allemands	0	84.29000	30.600	0.000	427.000	0.000

ENDATA20

CARD TYPE	CONSTITUENT		CONCENTRATION	
LOWER BC	TEMPERATURE	=	31.500	DEG C
LOWER BC	SALINITY	=	0.275	PPT
LOWER BC	CONSERVATIVE MATERIAL I	=	493.000	umhos
LOWER BC	CONSERVATIVE MATERIAL II	=	0.000	
LOWER BC	DISSOLVED OXYGEN	=	5.160	MG/L
LOWER BC	BIOCHEMICAL OXYGEN DEMAND	=	3.790	MG/L
LOWER BC	ORGANIC NITROGEN	=	1.270	MG/L
LOWER BC	AMMONIA NITROGEN	=	0.430	MG/L
LOWER BC	NITRATE + NITRITE	=	0.050	MG/L
LOWER BC	PHOSPHOROUS	=	0.120	MG/L
LOWER BC	CHLOROPYHLL A	=	31.000	UG/L
LOWER BC	COLIFORM	=	0.000	#/100 ML
LOWER BC	NONCONSERVATIVE MATERIAL	=	0.000	

ENDATA27

$$$ DATA TYPE 28 (FLOW AUGMENTATION DATA) $$$

CARD TYPE	REACH	AVAIL HDWS	TARGET	ORDER OF AVAIL SOURCES

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
SENSITIV	NH3 SRCE	-50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SENSITIV	PO4 SRCE	-50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ENDATA29

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

ENDATA30

1

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

```
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED

     .....PHOTOSYNTHETIC RATES CONVERGENT IN   9 ITERATIONS

     .....OXYGEN DEPENDENT RATES CONVERGENT IN   1 ITERATIONS

     .....CONSTITUENT CALCULATIONS COMPLETED
1INTERMEDIATE REPORT
 DISSOLVED OXYGEN                                          QUAL-TX simulation for Upper Bayou Des Allemands, LA
 MG/L                                                      Adjusted Calibration

  ID   RCH  ELEM        +0        +1        +2        +3        +4        +5        +6        +7        +8        +9
```



```
CARD TYPE        CONSTITUENT                      CONCENTRATION

LOWER BC     TEMPERATURE                      =     31.500 DEG C
LOWER BC     SALINITY                         =      0.275 PPT
LOWER BC     CONSERVATIVE MATERIAL I          =    493.000 umhos
LOWER BC     CONSERVATIVE MATERIAL II         =      0.000
LOWER BC     DISSOLVED OXYGEN                 =      5.160 MG/L
LOWER BC     BIOCHEMICAL OXYGEN DEMAND        =      3.790 MG/L
LOWER BC     ORGANIC NITROGEN                 =      1.270 MG/L
LOWER BC     AMMONIA NITROGEN                 =      0.430 MG/L
LOWER BC     NITRATE + NITRITE                =      0.050 MG/L
LOWER BC     PHOSPHOROUS                      =      0.120 MG/L
LOWER BC     CHLOROPYHLL A                    =     31.000 UG/L
LOWER BC     COLIFORM                         =      0.000 #/100 ML
LOWER BC     NONCONSERVATIVE MATERIAL         =      0.000
ENDATA27


$$$ DATA TYPE 28 (FLOW AUGMENTATION DATA) $$$

CARD TYPE        REACH       AVAIL HDWS       TARGET            ORDER OF AVAIL SOURCES

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

SENSITIV         NH3 SRCE     -50.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
SENSITIV         PO4 SRCE     -50.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0
ENDATA29
```

MG/L

Adjusted Calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
DA	1	1	1.58	1.57	1.57	1.57	1.57	1.57	1.56	1.56	1.56	1.56
DA	2	11	1.56	1.56	1.55	1.55	1.55					
DA	3	16	1.55	1.55	1.55	1.55	1.55	1.55	1.54	1.54	1.54	1.54
DA	3	26	1.54	1.54	1.54	1.54	1.54	1.54	1.53	1.53	1.53	1.53
DA	3	36	1.53	1.53	1.53	1.53	1.53					
DA	4	41	1.53	1.53	1.53	1.52	1.52					
DA	5	46	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
DA	6	56	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
DA	7	66	1.52	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
DA	8	76	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
DA	9	86	1.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
DA	10	96	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
DA	11	106	1.50	1.50	1.50	1.50	1.50	1.49	1.45			

1INTERMEDIATE REPORT
AMMONIA NITROGEN
MG/L

QUAL-TX simulation for Upper Bayou Des Allemands, LA
Adjusted Calibration

.....TRIDIAGONAL MATRIX TERMS INITIALIZED

.....PHOTOSYNTHETIC RATES CONVERGENT IN 9 ITERATIONS

.....OXYGEN DEPENDENT RATES CONVERGENT IN 1 ITERATIONS

.....CONSTITUENT CALCULATIONS COMPLETED
1INTERMEDIATE REPORT
DISSOLVED OXYGEN
MG/L

QUAL-TX simulation for Upper Bayou Des Allemands, LA
Adjusted Calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
DA	1	1	7.04	6.90	6.77	6.63	6.50	6.37	6.23	6.07	5.97	5.88
DA	2	11	5.81	5.74	5.68	5.62	5.57					
DA	3	16	5.52	5.47	5.43	5.38	5.34	5.29	5.25	5.21	5.17	5.13
DA	3	26	5.09	5.05	5.01	4.98	4.94	4.91	4.87	4.84	4.81	4.77
DA	3	36	4.74	4.71	4.68	4.66	4.63					
DA	4	41	4.62	4.60	4.58	4.56	4.54					
DA	5	46	4.54	4.53	4.52	4.51	4.50	4.49	4.49	4.48	4.47	4.46
DA	6	56	4.45	4.43	4.42	4.41	4.40	4.38	4.37	4.36	4.35	4.33
DA	7	66	4.32	4.30	4.29	4.28	4.26	4.25	4.23	4.22	4.20	4.19
DA	8	76	4.17	4.16	4.14	4.13	4.11	4.10	4.08	4.07	4.05	4.04
DA	9	86	4.03	4.02	4.01	3.99	3.98	3.97	3.96	3.95	3.94	3.93
DA	10	96	3.92	3.92	3.91	3.90	3.90	3.89	3.88	3.88	3.87	3.87
DA	11	106	3.87	3.87	3.87	3.87	3.87	3.90	4.15			

DA	4	41	0.06	0.06	0.06	0.06	0.06					
DA	5	46	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
DA	6	56	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
DA	7	66	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
DA	8	76	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
DA	9	86	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
DA	10	96	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
DA	11	106	0.07	0.07	0.07	0.07	0.07	0.07	0.07			

1INTERMEDIATE REPORT
TOTAL NITROGEN
MG/L

QUAL-TX simulation for Upper Bayou Des Allemands, LA
Adjusted Calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
DA	1	1	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7
DA	2	11	1.7	1.7	1.7	1.7	1.8					
DA	3	16	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
DA	3	26	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
DA	3	36	1.8	1.8	1.8	1.8	1.8					
DA	4	41	1.8	1.8	1.8	1.8	1.8					
DA	5	46	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
DA	6	56	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
DA	7	66	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
DA	8	76	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
DA	9	86	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
DA	10	96	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
DA	11	106	1.9	1.9	1.9	1.9	1.9	1.9	1.8			

1INTERMEDIATE REPORT
PHOSPHORUS
MG/L

QUAL-TX simulation for Upper Bayou Des Allemands, LA
Adjusted Calibration

MG/L

Adjusted Calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
DA	1	1	1.58	1.57	1.57	1.57	1.57	1.57	1.56	1.56	1.56	1.56
DA	2	11	1.56	1.56	1.55	1.55	1.55					
DA	3	16	1.55	1.55	1.55	1.55	1.55	1.55	1.54	1.54	1.54	1.54
DA	3	26	1.54	1.54	1.54	1.54	1.54	1.54	1.53	1.53	1.53	1.53
DA	3	36	1.53	1.53	1.53	1.53	1.53					
DA	4	41	1.53	1.53	1.53	1.52	1.52					
DA	5	46	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
DA	6	56	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
DA	7	66	1.52	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
DA	8	76	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
DA	9	86	1.51	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

UG/L

Adjusted Calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
DA	1	1	50.3	50.0	49.6	49.3	49.0	48.7	48.4	48.2	47.9	47.7
DA	2	11	47.5	47.3	47.2	47.0	46.8					
DA	3	16	46.7	46.6	46.4	46.3	46.2	46.0	45.9	45.8	45.6	45.5
DA	3	26	45.4	45.3	45.2	45.0	44.9	44.8	44.7	44.6	44.5	44.4
DA	3	36	44.3	44.1	44.0	43.9	43.9					
DA	4	41	43.8	43.7	43.7	43.6	43.6					
DA	5	46	43.5	43.5	43.4	43.4	43.4	43.3	43.3	43.3	43.2	43.2
DA	6	56	43.2	43.1	43.1	43.0	43.0	43.0	42.9	42.9	42.8	42.8
DA	7	66	42.7	42.7	42.6	42.6	42.5	42.5	42.4	42.4	42.3	42.3
DA	8	76	42.2	42.2	42.2	42.1	42.1	42.0	42.0	41.9	41.9	41.8
DA	9	86	41.8	41.8	41.7	41.7	41.6	41.6	41.6	41.5	41.5	41.5
DA	10	96	41.4	41.4	41.4	41.4	41.3	41.3	41.3	41.2	41.2	41.2
DA	11	106	41.2	41.2	41.2	41.1	41.1	40.9	38.9			

1INTERMEDIATE REPORT
TEMPERATURE
DEG C

QUAL-TX simulation for Upper Bayou Des Allemands, LA
Adjusted Calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
DA	1	1	33.10	33.10	33.10	33.10	33.10	33.10	33.10	33.10	33.10	33.10
DA	2	11	32.82	32.54	32.26	31.98	31.70					
DA	3	16	31.64	31.59	31.53	31.48	31.42	31.36	31.31	31.25	31.20	31.14
DA	3	26	31.08	31.03	30.97	30.92	30.86	30.80	30.75	30.69	30.64	30.58
DA	3	36	30.52	30.47	30.41	30.36	30.30					
DA	4	41	30.38	30.46	30.54	30.62	30.70					
DA	5	46	30.74	30.78	30.82	30.86	30.90	30.94	30.98	31.02	31.06	31.10
DA	6	56	31.06	31.02	30.98	30.94	30.90	30.86	30.82	30.78	30.74	30.70
DA	7	66	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
DA	8	76	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
DA	9	86	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70	30.70
DA	10	96	30.71	30.72	30.73	30.74	30.75	30.76	30.77	30.78	30.79	30.80
DA	11	106	30.90	31.00	31.10	31.20	31.30	31.40	31.50			

DA	4	41	0.06	0.06	0.06	0.06	0.06					
DA	5	46	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
DA	6	56	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
DA	7	66	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
DA	8	76	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
DA	9	86	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
DA	10	96	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
DA	11	106	0.07	0.07	0.07	0.07	0.07	0.07	0.07			

1INTERMEDIATE REPORT
TOTAL NITROGEN
MG/L

QUAL-TX simulation for Upper Bayou Des Allemands, LA
Adjusted Calibration

DA	4	41	0.3	0.3	0.3	0.3	0.3					
DA	5	46	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
DA	6	56	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
DA	7	66	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
DA	8	76	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
DA	9	86	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
DA	10	96	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
DA	11	106	0.3	0.3	0.3	0.3	0.3	0.3	0.3			

1INTERMEDIATE REPORT
cond QUAL-TX simulation for Upper Bayou Des Allemands, LA
umhos Adjusted Calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
DA	1	1	427.1	427.1	427.2	427.5	428.1	429.2	431.5	436.3	436.3	436.3
DA	2	11	436.3	436.3	436.3	436.3	436.3					
DA	3	16	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3
DA	3	26	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3
DA	3	36	436.3	436.3	436.3	436.3	436.3					
DA	4	41	436.3	436.3	436.3	436.3	436.3					
DA	5	46	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3
DA	6	56	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3
DA	7	66	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3
DA	8	76	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3
DA	9	86	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3
DA	10	96	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3
DA	11	106	436.3	436.3	436.3	436.3	436.4	437.7	448.5			

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FINAL REPORT Lake Des Allemands QUAL-TX simulation for Upper Bayou Des Allemands, LA
REACH NO. 1 Bayou Des Allemands Adjusted Calibration

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

ELEM NO.	TYPE	FLOW CMS	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	PHOS MG/L	CHL A UG/L	COLI #/100ML	NCM *
1	HDWTR	84.2900	30.60	0.00	427.0	0.0	7.32	3.79	3.79	1.58	0.12	0.05	0.12	51.0	0.	0.00
8	WSTLD	4.3900	30.20	0.00	614.0	0.0	4.19	3.79	3.79	1.58	0.12	0.05	0.12	51.0	0.	0.00

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

ELEM	BEGIN	ENDING	FLOW	PCT	ADVCTV	TRAVEL	DEPTH	WIDTH	VOLUME	SURFACE	X-SECT	TIDAL	TIDAL	DISPRSN	MEAN

UG/L Adjusted Calibration

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9

3	32.75	32.63	84.2900	0.0	0.038	0.04	1.52	1445.9	274725.	180740.3	2197.8	0.	0.000	4.500	0.038
4	32.63	32.50	84.2900	0.0	0.038	0.04	1.52	1445.9	274725.	180740.3	2197.8	0.	0.000	4.500	0.038
5	32.50	32.38	84.2900	0.0	0.038	0.04	1.52	1445.9	274725.	180740.3	2197.8	0.	0.000	4.500	0.038
6	32.38	32.25	84.2900	0.0	0.038	0.04	1.52	1445.9	274725.	180740.3	2197.8	0.	0.000	4.500	0.038
7	32.25	32.13	84.2900	0.0	0.038	0.04	1.52	1445.9	274725.	180740.3	2197.8	0.	0.000	4.500	0.038
8	32.13	32.00	88.6800	5.0	0.040	0.04	1.52	1445.9	274725.	180740.3	2197.8	0.	0.000	4.500	0.040
9	32.00	31.88	88.6800	5.0	0.040	0.04	1.52	1445.9	274725.	180740.3	2197.8	0.	0.000	4.500	0.040
10	31.88	31.75	88.6800	5.0	0.040	0.04	1.52	1445.9	274725.	180740.3	2197.8	0.	0.000	4.500	0.040
TOT						0.37			2747253.	1807403.1					
AVG					0.039		1.52	1445.9			2197.8				
CUM						0.37									

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

ELEM NO.	ENDING DIST	SAT D.O. MG/L	REAER RATE 1/DA	CBOD DECAY 1/DA	CBOD SETT 1/DA	ANBOD DECAY 1/DA	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	32.875	7.16	0.70	0.26	0.00	0.00	5.94	5.94	0.04	0.00	0.24	0.10	0.00	0.05	1.02	0.00	0.00	0.00	0.00
2	32.750	7.16	0.70	0.26	0.00	0.00	5.92	5.92	0.04	0.00	0.24	0.10	0.00	0.05	1.03	0.00	0.00	0.00	0.00
3	32.625	7.16	0.70	0.26	0.00	0.00	5.90	5.90	0.04	0.00	0.24	0.10	0.00	0.05	1.04	0.00	0.00	0.00	0.00
4	32.500	7.16	0.70	0.26	0.00	0.00	5.89	5.89	0.04	0.00	0.24	0.10	0.00	0.05	1.04	0.00	0.00	0.00	0.00
5	32.375	7.16	0.70	0.26	0.00	0.00	5.87	5.87	0.04	0.00	0.23	0.10	0.00	0.05	1.05	0.00	0.00	0.00	0.00
6	32.250	7.16	0.70	0.26	0.00	0.00	5.85	5.85	0.04	0.00	0.23	0.10	0.00	0.05	1.06	0.00	0.00	0.00	0.00
7	32.125	7.16	0.70	0.26	0.00	0.00	5.84	5.84	0.04	0.00	0.23	0.10	0.00	0.05	1.06	0.00	0.00	0.00	0.00
8	32.000	7.16	0.70	0.26	0.00	0.00	5.83	5.83	0.04	0.00	0.23	0.10	0.00	0.05	1.07	0.00	0.00	0.00	0.00
9	31.875	7.16	0.70	0.26	0.00	0.00	5.81	5.81	0.04	0.00	0.23	0.10	0.00	0.05	1.07	0.00	0.00	0.00	0.00
10	31.750	7.16	0.70	0.26	0.00	0.00	5.80	5.80	0.04	0.00	0.23	0.10	0.00	0.05	1.08	0.00	0.00	0.00	0.00
20 DEG C RATE				0.14		0.00		1.40	0.02		0.10	0.04	0.00	0.04			0.00	0.00	
AVG 20 DEG C RATE			0.55		0.00					0.00									0.00

* G/SQ M/D ** MG/L/DAY

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	TOTN MG/L	PHOS MG/L	CHL A UG/L	MACRO **	COLI #/100ML	NCM *
1	32.875	33.10	0.3	427.1	0.0	7.04	3.78	3.78	1.58	0.12	0.05	1.75	0.12	50.3	0.0	0.	0.00
2	32.750	33.10	0.3	427.1	0.0	6.90	3.78	3.78	1.57	0.13	0.05	1.75	0.12	50.0	0.0	0.	0.00
3	32.625	33.10	0.3	427.2	0.0	6.77	3.78	3.78	1.57	0.13	0.05	1.75	0.12	49.6	0.0	0.	0.00
4	32.500	33.10	0.3	427.5	0.0	6.63	3.77	3.77	1.57	0.13	0.05	1.75	0.12	49.3	0.0	0.	0.00
5	32.375	33.10	0.3	428.1	0.0	6.50	3.77	3.77	1.57	0.13	0.05	1.75	0.13	49.0	0.0	0.	0.00

DA	4	41	0.3	0.3	0.3	0.3	0.3					
DA	5	46	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
DA	6	56	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

9	31.875	33.10	0.3	436.3	0.0	5.97	3.77	3.77	1.56	0.14	0.05	1.75	0.13	47.9	0.0	0.	0.00
10	31.750	33.10	0.3	436.3	0.0	5.88	3.78	3.78	1.56	0.14	0.05	1.75	0.13	47.7	0.0	0.	0.00

* CM-I = cond umhos CM-II = NCM =
** G/CU M

********** ALGAE AND MACROPHYTE DATA **********

ELEM NO.	ENDING DIST	SECCHI DEPTH M	NITR PREF	ALG SETT 1/DA	ALG LIT LIM	ALG N LIM	ALG P LIM	ALG N&P LIM	ALG TOT LIM	ALG GROW 1/DA	ALG RESP 1/DA	A P/R RATIO	MAC LIT LIM	MAC N LIM	MAC P LIM	MAC N&P LIM	MAC TOT LIM	MAC GROW 1/DA	MAC RESP 1/DA	M P/R RATIO
1	32.875	0.59	0.29	0.45	.30	.37	.75	.49	.15	0.44	0.18	1.93	.00	.00	.00	.00	.00	0.00	0.00	0.00
2	32.750	0.59	0.28	0.45	.30	.37	.75	.50	.15	0.44	0.18	1.94	.00	.00	.00	.00	.00	0.00	0.00	0.00
3	32.625	0.59	0.28	0.45	.30	.37	.76	.50	.15	0.45	0.18	1.95	.00	.00	.00	.00	.00	0.00	0.00	0.00
4	32.500	0.59	0.28	0.45	.30	.38	.76	.50	.15	0.45	0.18	1.97	.00	.00	.00	.00	.00	0.00	0.00	0.00
5	32.375	0.60	0.27	0.45	.30	.38	.76	.51	.15	0.45	0.18	1.98	.00	.00	.00	.00	.00	0.00	0.00	0.00
6	32.250	0.60	0.27	0.45	.30	.38	.76	.51	.15	0.45	0.18	1.99	.00	.00	.00	.00	.00	0.00	0.00	0.00
7	32.125	0.60	0.27	0.45	.30	.38	.76	.51	.15	0.46	0.18	2.00	.00	.00	.00	.00	.00	0.00	0.00	0.00
8	32.000	0.60	0.27	0.45	.30	.39	.76	.51	.15	0.46	0.18	2.01	.00	.00	.00	.00	.00	0.00	0.00	0.00
9	31.875	0.60	0.26	0.45	.30	.39	.76	.51	.16	0.46	0.18	2.02	.00	.00	.00	.00	.00	0.00	0.00	0.00
10	31.750	0.60	0.26	0.45	.30	.39	.76	.52	.16	0.46	0.18	2.03	.00	.00	.00	.00	.00	0.00	0.00	0.00
20 DEG C RATE				0.50						1.62	0.10							0.00	0.00	

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

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FINAL REPORT Lake Des Allemands QUAL-TX simulation for Upper Bayou Des Allemands, LA
REACH NO. 2 Bayou Des Allemands Adjusted Calibration

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

ELEM NO.	TYPE	FLOW CMS	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	PHOS MG/L	CHL A UG/L	COLI #/100ML	NCM *
11	UPR RCH	88.6800	33.10	0.29	436.3	0.0	5.88	3.78	3.78	1.56	0.14	0.05	0.13	47.7	0.	0.00

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

ELEM NO.	BEGIN DIST KM	ENDING DIST KM	FLOW CMS	PCT EFF	ADVCTV VELO M/S	TRAVEL TIME DAYS	DEPTH M	WIDTH M	VOLUME CU M	SURFACE AREA SQ M	X-SECT AREA SQ M	TIDAL PRISM CU M	TIDAL VELO M/S	DISPRSN SQ M/S	MEAN VELO M/S
11	31.75	31.65	88.6800	5.0	0.049	0.02	1.52	1189.7	180832.	118968.3	1808.3	0.	0.000	4.500	0.049
12	31.65	31.55	88.6800	5.0	0.049	0.02	1.52	1189.7	180832.	118968.3	1808.3	0.	0.000	4.500	0.049

14	31.45	31.35	88.6800	5.0	0.049	0.02	1.52	1189.7	180832.	118968.3	1808.3	0.	0.000	4.500	0.049
15	31.35	31.25	88.6800	5.0	0.049	0.02	1.52	1189.7	180832.	118968.3	1808.3	0.	0.000	4.500	0.049
TOT						0.12			904159.	594841.5					
AVG					0.049		1.52	1189.7			1808.3				
CUM						0.49									

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

ELEM NO.	ENDING DIST	SAT D.O. MG/L	REAER RATE 1/DA	CBOD DECAY 1/DA	CBOD SETT 1/DA	ANBOD DECAY 1/DA	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
11	31.650	7.19	0.70	0.25	0.00	0.00	6.16	6.16	0.04	0.00	0.23	0.10	0.00	0.05	1.07	0.00	0.00	0.00	0.00
12	31.550	7.23	0.69	0.25	0.00	0.00	6.07	6.07	0.04	0.00	0.22	0.10	0.00	0.05	1.06	0.00	0.00	0.00	0.00
13	31.450	7.26	0.69	0.25	0.00	0.00	5.99	5.99	0.04	0.00	0.22	0.10	0.00	0.05	1.05	0.00	0.00	0.00	0.00
14	31.350	7.30	0.69	0.24	0.00	0.00	5.90	5.90	0.03	0.00	0.21	0.09	0.00	0.05	1.04	0.00	0.00	0.00	0.00
15	31.250	7.33	0.68	0.24	0.00	0.00	5.82	5.82	0.03	0.00	0.21	0.09	0.00	0.05	1.03	0.00	0.00	0.00	0.00
20 DEG C RATE				0.14		0.00		1.60	0.02		0.10	0.04	0.00	0.04			0.00	0.00	
AVG 20 DEG C RATE			0.55		0.00					0.00									0.00

* G/SQ M/D ** MG/L/DAY

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	TOTN MG/L	PHOS MG/L	CHL A UG/L	MACRO **	COLI #/100ML	NCM *
11	31.650	32.82	0.3	436.3	0.0	5.81	3.80	3.80	1.56	0.14	0.05	1.75	0.13	47.5	0.0	0.	0.00
12	31.550	32.54	0.3	436.3	0.0	5.74	3.83	3.83	1.56	0.14	0.05	1.75	0.13	47.3	0.0	0.	0.00
13	31.450	32.26	0.3	436.3	0.0	5.68	3.85	3.85	1.55	0.14	0.05	1.75	0.13	47.2	0.0	0.	0.00
14	31.350	31.98	0.3	436.3	0.0	5.62	3.86	3.86	1.55	0.15	0.05	1.75	0.13	47.0	0.0	0.	0.00
15	31.250	31.70	0.3	436.3	0.0	5.57	3.87	3.87	1.55	0.15	0.05	1.75	0.13	46.8	0.0	0.	0.00

* CM-I = cond umhos CM-II = NCM =
** G/CU M

********** ALGAE AND MACROPHYTE DATA **********

ELEM NO.	ENDING DIST	SECCHI DEPTH M	NITR PREF	ALG SETT 1/DA	ALG LIT LIM	ALG N LIM	ALG P LIM	ALG N&P LIM	ALG TOT LIM	ALG GROW 1/DA	ALG RESP 1/DA	A P/R RATIO	MAC LIT LIM	MAC N LIM	MAC P LIM	MAC N&P LIM	MAC TOT LIM	MAC GROW 1/DA	MAC RESP 1/DA	M P/R RATIO
11	31.650	0.60	0.26	0.45	.30	.39	.76	.52	.16	0.46	0.18	2.04	.00	.00	.00	.00	.00	0.00	0.00	0.00
12	31.550	0.60	0.26	0.44	.30	.39	.77	.52	.16	0.46	0.18	2.05	.00	.00	.00	.00	.00	0.00	0.00	0.00

40	28.85	28.75	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
TOT						0.50			3846155.	2090300.6					
AVG					0.058		1.84	836.1			1538.5				
CUM						0.99									

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

ELEM NO.	ENDING DIST	SAT D.O. MG/L	REAER RATE 1/DA	CBOD DECAY 1/DA	CBOD SETT 1/DA	ANBOD DECAY 1/DA	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
16	31.150	7.34	0.56	0.24	0.00	0.00	5.79	5.79	0.03	0.00	0.21	0.18	0.00	0.04	0.73	0.00	0.00	0.00	0.00
17	31.050	7.34	0.56	0.24	0.00	0.00	5.77	5.77	0.03	0.00	0.20	0.18	0.00	0.04	0.74	0.00	0.00	0.00	0.00
18	30.950	7.35	0.56	0.24	0.00	0.00	5.75	5.75	0.03	0.00	0.20	0.18	0.00	0.04	0.74	0.00	0.00	0.00	0.00
19	30.850	7.36	0.56	0.24	0.00	0.00	5.73	5.73	0.03	0.00	0.20	0.18	0.00	0.04	0.75	0.00	0.00	0.00	0.00
20	30.750	7.37	0.56	0.24	0.00	0.00	5.71	5.71	0.03	0.00	0.20	0.18	0.00	0.04	0.75	0.00	0.00	0.00	0.00
21	30.650	7.37	0.56	0.24	0.00	0.00	5.68	5.68	0.03	0.00	0.20	0.18	0.00	0.04	0.75	0.00	0.00	0.00	0.00
22	30.550	7.38	0.56	0.24	0.00	0.00	5.66	5.66	0.03	0.00	0.20	0.18	0.00	0.04	0.76	0.00	0.00	0.00	0.00
23	30.450	7.39	0.56	0.23	0.00	0.00	5.64	5.64	0.03	0.00	0.20	0.18	0.00	0.04	0.76	0.00	0.00	0.00	0.00
24	30.350	7.39	0.56	0.23	0.00	0.00	5.62	5.62	0.03	0.00	0.20	0.18	0.00	0.04	0.76	0.00	0.00	0.00	0.00
25	30.250	7.40	0.56	0.23	0.00	0.00	5.60	5.60	0.03	0.00	0.20	0.18	0.00	0.04	0.76	0.00	0.00	0.00	0.00
26	30.150	7.41	0.56	0.23	0.00	0.00	5.58	5.58	0.03	0.00	0.19	0.18	0.00	0.04	0.77	0.00	0.00	0.00	0.00
27	30.050	7.41	0.56	0.23	0.00	0.00	5.56	5.56	0.03	0.00	0.19	0.18	0.00	0.04	0.77	0.00	0.00	0.00	0.00
28	29.950	7.42	0.56	0.23	0.00	0.00	5.54	5.54	0.03	0.00	0.19	0.18	0.00	0.04	0.77	0.00	0.00	0.00	0.00
29	29.850	7.43	0.56	0.23	0.00	0.00	5.52	5.52	0.03	0.00	0.19	0.17	0.00	0.04	0.77	0.00	0.00	0.00	0.00
30	29.750	7.44	0.56	0.23	0.00	0.00	5.50	5.50	0.03	0.00	0.19	0.17	0.00	0.04	0.78	0.00	0.00	0.00	0.00
31	29.650	7.44	0.56	0.23	0.00	0.00	5.48	5.48	0.03	0.00	0.19	0.17	0.00	0.04	0.78	0.00	0.00	0.00	0.00
32	29.550	7.45	0.56	0.23	0.00	0.00	5.46	5.46	0.03	0.00	0.19	0.17	0.00	0.04	0.78	0.00	0.00	0.00	0.00
33	29.450	7.46	0.56	0.23	0.00	0.00	5.44	5.44	0.03	0.00	0.19	0.17	0.00	0.04	0.78	0.00	0.00	0.00	0.00
34	29.350	7.46	0.56	0.23	0.00	0.00	5.42	5.42	0.03	0.00	0.19	0.17	0.00	0.04	0.78	0.00	0.00	0.00	0.00
35	29.250	7.47	0.55	0.23	0.00	0.00	5.40	5.40	0.03	0.00	0.19	0.17	0.00	0.04	0.79	0.00	0.00	0.00	0.00
36	29.150	7.48	0.55	0.23	0.00	0.00	5.38	5.38	0.03	0.00	0.18	0.17	0.00	0.04	0.79	0.00	0.00	0.00	0.00
37	29.050	7.49	0.55	0.23	0.00	0.00	5.36	5.36	0.03	0.00	0.18	0.17	0.00	0.04	0.79	0.00	0.00	0.00	0.00
38	28.950	7.49	0.55	0.23	0.00	0.00	5.34	5.34	0.03	0.00	0.18	0.17	0.00	0.04	0.79	0.00	0.00	0.00	0.00
39	28.850	7.50	0.55	0.23	0.00	0.00	5.32	5.32	0.03	0.00	0.18	0.17	0.00	0.04	0.79	0.00	0.00	0.00	0.00
40	28.750	7.51	0.55	0.22	0.00	0.00	5.30	5.30	0.03	0.00	0.18	0.17	0.00	0.04	0.79	0.00	0.00	0.00	0.00
20 DEG C RATE				0.14		0.00		1.60	0.02		0.10	0.08	0.00	0.03			0.00	0.00	
AVG 20 DEG C RATE			0.46		0.00					0.00									0.00

* G/SQ M/D ** MG/L/DAY

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	TOTN MG/L	PHOS MG/L	CHL A UG/L	MACRO **	COLI #/100ML	NCM *

13	31.450	0.60	0.26	0.44	.30	.39	.77	.52	.16	0.45	0.18	2.05	.00	.00	.00	.00	.00	0.00	0.00	0.00
14	31.350	0.60	0.26	0.44	.30	.40	.77	.52	.16	0.45	0.17	2.06	.00	.00	.00	.00	.00	0.00	0.00	0.00
15	31.250	0.60	0.26	0.43	.30	.40	.77	.52	.16	0.44	0.17	2.07	.00	.00	.00	.00	.00	0.00	0.00	0.00
20 DEG C RATE				0.50						1.62	0.10							0.00	0.00	

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

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FINAL REPORT Lake Des Allemands QUAL-TX simulation for Upper Bayou Des Allemands, LA
REACH NO. 3 Bayou Des Allemands Adjusted Calibration

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

ELEM NO.	TYPE	FLOW CMS	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	PHOS MG/L	CHL A UG/L	COLI #/100ML	NCM *
16	UPR RCH	88.6800	31.70	0.29	436.3	0.0	5.57	3.87	3.87	1.55	0.15	0.05	0.13	46.8	0.	0.00

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

ELEM NO.	BEGIN DIST KM	ENDING DIST KM	FLOW CMS	PCT EFF	ADVCTV VELO M/S	TRAVEL TIME DAYS	DEPTH M	WIDTH M	VOLUME CU M	SURFACE AREA SQ M	X-SECT AREA SQ M	TIDAL PRISM CU M	TIDAL VELO M/S	DISPRSN SQ M/S	MEAN VELO M/S
16	31.25	31.15	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
17	31.15	31.05	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
18	31.05	30.95	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
19	30.95	30.85	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
20	30.85	30.75	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
21	30.75	30.65	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
22	30.65	30.55	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
23	30.55	30.45	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
24	30.45	30.35	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
25	30.35	30.25	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
26	30.25	30.15	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
27	30.15	30.05	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
28	30.05	29.95	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
29	29.95	29.85	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
30	29.85	29.75	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
31	29.75	29.65	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
32	29.65	29.55	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
33	29.55	29.45	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
34	29.45	29.35	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
35	29.35	29.25	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
36	29.25	29.15	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
37	29.15	29.05	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
38	29.05	28.95	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058
39	28.95	28.85	88.6800	5.0	0.058	0.02	1.84	836.1	153846.	83612.0	1538.5	0.	0.000	4.500	0.058

16	31.150	31.64	0.3	436.3	0.0	5.52	3.86	3.86	1.55	0.15	0.05	1.75	0.13	46.7	0.0	0.	0.00
17	31.050	31.59	0.3	436.3	0.0	5.47	3.85	3.85	1.55	0.15	0.05	1.75	0.13	46.6	0.0	0.	0.00
18	30.950	31.53	0.3	436.3	0.0	5.43	3.84	3.84	1.55	0.15	0.05	1.75	0.13	46.4	0.0	0.	0.00
19	30.850	31.48	0.3	436.3	0.0	5.38	3.82	3.82	1.55	0.15	0.05	1.75	0.13	46.3	0.0	0.	0.00
20	30.750	31.42	0.3	436.3	0.0	5.34	3.81	3.81	1.55	0.16	0.05	1.76	0.13	46.2	0.0	0.	0.00
21	30.650	31.36	0.3	436.3	0.0	5.29	3.80	3.80	1.55	0.16	0.05	1.76	0.13	46.0	0.0	0.	0.00
22	30.550	31.31	0.3	436.3	0.0	5.25	3.79	3.79	1.54	0.16	0.05	1.76	0.13	45.9	0.0	0.	0.00
23	30.450	31.25	0.3	436.3	0.0	5.21	3.78	3.78	1.54	0.16	0.05	1.76	0.13	45.8	0.0	0.	0.00
24	30.350	31.20	0.3	436.3	0.0	5.17	3.77	3.77	1.54	0.16	0.05	1.76	0.13	45.6	0.0	0.	0.00
25	30.250	31.14	0.3	436.3	0.0	5.13	3.75	3.75	1.54	0.17	0.05	1.76	0.13	45.5	0.0	0.	0.00
26	30.150	31.08	0.3	436.3	0.0	5.09	3.74	3.74	1.54	0.17	0.05	1.76	0.14	45.4	0.0	0.	0.00
27	30.050	31.03	0.3	436.3	0.0	5.05	3.73	3.73	1.54	0.17	0.05	1.76	0.14	45.3	0.0	0.	0.00
28	29.950	30.97	0.3	436.3	0.0	5.01	3.72	3.72	1.54	0.17	0.05	1.76	0.14	45.2	0.0	0.	0.00
29	29.850	30.92	0.3	436.3	0.0	4.98	3.71	3.71	1.54	0.17	0.05	1.76	0.14	45.0	0.0	0.	0.00
30	29.750	30.86	0.3	436.3	0.0	4.94	3.70	3.70	1.54	0.17	0.05	1.76	0.14	44.9	0.0	0.	0.00
31	29.650	30.80	0.3	436.3	0.0	4.91	3.69	3.69	1.54	0.18	0.05	1.77	0.14	44.8	0.0	0.	0.00
32	29.550	30.75	0.3	436.3	0.0	4.87	3.68	3.68	1.53	0.18	0.05	1.77	0.14	44.7	0.0	0.	0.00
33	29.450	30.69	0.3	436.3	0.0	4.84	3.67	3.67	1.53	0.18	0.05	1.77	0.14	44.6	0.0	0.	0.00
34	29.350	30.64	0.3	436.3	0.0	4.81	3.66	3.66	1.53	0.18	0.05	1.77	0.14	44.5	0.0	0.	0.00
35	29.250	30.58	0.3	436.3	0.0	4.77	3.65	3.65	1.53	0.18	0.06	1.77	0.14	44.4	0.0	0.	0.00
36	29.150	30.52	0.3	436.3	0.0	4.74	3.64	3.64	1.53	0.18	0.06	1.77	0.14	44.3	0.0	0.	0.00
37	29.050	30.47	0.3	436.3	0.0	4.71	3.63	3.63	1.53	0.18	0.06	1.77	0.14	44.1	0.0	0.	0.00
38	28.950	30.41	0.3	436.3	0.0	4.68	3.62	3.62	1.53	0.19	0.06	1.77	0.14	44.0	0.0	0.	0.00
39	28.850	30.36	0.3	436.3	0.0	4.66	3.61	3.61	1.53	0.19	0.06	1.77	0.14	43.9	0.0	0.	0.00
40	28.750	30.30	0.3	436.3	0.0	4.63	3.60	3.60	1.53	0.19	0.06	1.77	0.14	43.9	0.0	0.	0.00

* CM-I = cond CM-II = NCM =
umhos
** G/CU M

********** ALGAE AND MACROPHYTE DATA **********

ELEM NO.	ENDING DIST	SECCHI DEPTH M	NITR PREF	ALG SETT 1/DA	ALG LIT LIM	ALG N LIM	ALG P LIM	ALG N&P LIM	ALG TOT LIM	ALG GROW 1/DA	ALG RESP 1/DA	A P/R RATIO	MAC LIT LIM	MAC N LIM	MAC P LIM	MAC N&P LIM	MAC TOT LIM	MAC GROW 1/DA	MAC RESP 1/DA	M P/R RATIO
16	31.150	0.60	0.25	0.36	.26	.40	.77	.53	.14	0.38	0.17	1.77	.00	.00	.00	.00	.00	0.00	0.00	0.00
17	31.050	0.61	0.25	0.36	.26	.40	.77	.53	.14	0.38	0.17	1.78	.00	.00	.00	.00	.00	0.00	0.00	0.00
18	30.950	0.61	0.25	0.36	.26	.41	.77	.53	.14	0.38	0.17	1.78	.00	.00	.00	.00	.00	0.00	0.00	0.00
19	30.850	0.61	0.25	0.36	.26	.41	.77	.53	.14	0.38	0.17	1.79	.00	.00	.00	.00	.00	0.00	0.00	0.00
20	30.750	0.61	0.25	0.36	.26	.41	.77	.53	.14	0.38	0.17	1.80	.00	.00	.00	.00	.00	0.00	0.00	0.00
21	30.650	0.61	0.25	0.36	.26	.41	.77	.54	.14	0.38	0.17	1.81	.00	.00	.00	.00	.00	0.00	0.00	0.00
22	30.550	0.61	0.24	0.36	.26	.41	.77	.54	.14	0.38	0.17	1.82	.00	.00	.00	.00	.00	0.00	0.00	0.00
23	30.450	0.61	0.24	0.35	.26	.42	.77	.54	.14	0.38	0.17	1.82	.00	.00	.00	.00	.00	0.00	0.00	0.00
24	30.350	0.61	0.24	0.35	.26	.42	.77	.54	.14	0.38	0.17	1.83	.00	.00	.00	.00	.00	0.00	0.00	0.00
25	30.250	0.61	0.24	0.35	.26	.42	.77	.54	.14	0.38	0.17	1.84	.00	.00	.00	.00	.00	0.00	0.00	0.00
26	30.150	0.61	0.24	0.35	.26	.42	.77	.55	.14	0.38	0.17	1.85	.00	.00	.00	.00	.00	0.00	0.00	0.00
27	30.050	0.61	0.24	0.35	.26	.43	.77	.55	.14	0.38	0.17	1.85	.00	.00	.00	.00	.00	0.00	0.00	0.00

29	29.850	0.61	0.24	0.35	.26	.43	.77	.55	.14	0.39	0.17	1.87	.00	.00	.00	.00	.00	0.00	0.00	0.00
30	29.750	0.61	0.24	0.35	.26	.43	.77	.55	.14	0.39	0.16	1.87	.00	.00	.00	.00	.00	0.00	0.00	0.00
31	29.650	0.61	0.24	0.35	.26	.43	.77	.56	.15	0.39	0.16	1.88	.00	.00	.00	.00	.00	0.00	0.00	0.00
32	29.550	0.61	0.23	0.35	.26	.44	.77	.56	.15	0.39	0.16	1.89	.00	.00	.00	.00	.00	0.00	0.00	0.00
33	29.450	0.61	0.23	0.35	.26	.44	.77	.56	.15	0.39	0.16	1.90	.00	.00	.00	.00	.00	0.00	0.00	0.00
34	29.350	0.61	0.23	0.35	.26	.44	.77	.56	.15	0.39	0.16	1.90	.00	.00	.00	.00	.00	0.00	0.00	0.00
35	29.250	0.61	0.23	0.35	.26	.44	.78	.56	.15	0.39	0.16	1.91	.00	.00	.00	.00	.00	0.00	0.00	0.00
36	29.150	0.61	0.23	0.35	.26	.44	.78	.56	.15	0.39	0.16	1.92	.00	.00	.00	.00	.00	0.00	0.00	0.00
37	29.050	0.62	0.23	0.35	.26	.44	.78	.57	.15	0.39	0.16	1.92	.00	.00	.00	.00	.00	0.00	0.00	0.00
38	28.950	0.62	0.23	0.35	.26	.45	.78	.57	.15	0.39	0.16	1.93	.00	.00	.00	.00	.00	0.00	0.00	0.00
39	28.850	0.62	0.23	0.35	.26	.45	.78	.57	.15	0.39	0.16	1.93	.00	.00	.00	.00	.00	0.00	0.00	0.00
40	28.750	0.62	0.23	0.35	.26	.45	.78	.57	.15	0.39	0.16	1.94	.00	.00	.00	.00	.00	0.00	0.00	0.00
20 DEG C RATE				0.50						1.62	0.10							0.00	0.00	

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

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FINAL REPORT Lake Des Allemands QUAL-TX simulation for Upper Bayou Des Allemands, LA
REACH NO. 4 Bayou Des Allemands Adjusted Calibration

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

ELEM NO.	TYPE	FLOW CMS	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	PHOS MG/L	CHL A UG/L	COLI #/100ML	NCM *
41	UPR RCH	88.6800	30.30	0.28	436.3	0.0	4.63	3.60	3.60	1.53	0.19	0.06	0.14	43.9	0.	0.00

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

ELEM NO.	BEGIN DIST KM	ENDING DIST KM	FLOW CMS	PCT EFF	ADVCTV VELO M/S	TRAVEL TIME DAYS	DEPTH M	WIDTH M	VOLUME CU M	SURFACE AREA SQ M	X-SECT AREA SQ M	TIDAL PRISM CU M	TIDAL VELO M/S	DISPRSN SQ M/S	MEAN VELO M/S
41	28.75	28.65	88.6800	5.0	0.087	0.01	2.16	470.0	101523.	47001.3	1015.2	0.	0.000	4.500	0.087
42	28.65	28.55	88.6800	5.0	0.087	0.01	2.16	470.0	101523.	47001.3	1015.2	0.	0.000	4.500	0.087
43	28.55	28.45	88.6800	5.0	0.087	0.01	2.16	470.0	101523.	47001.3	1015.2	0.	0.000	4.500	0.087
44	28.45	28.35	88.6800	5.0	0.087	0.01	2.16	470.0	101523.	47001.3	1015.2	0.	0.000	4.500	0.087
45	28.35	28.25	88.6800	5.0	0.087	0.01	2.16	470.0	101523.	47001.3	1015.2	0.	0.000	4.500	0.087
TOT						0.07			507614.	235006.6					
AVG					0.087		2.16	470.0			1015.2				
CUM						1.06									

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	CBOD DECAY	CBOD SETT	ANBOD DECAY	FULL SOD	CORR SOD	ORGN DECAY	ORGN SETT	NH3 DECAY	NH3 SRCE	DENIT RATE	PO4 SRCE	ALG PROD	MAC PROD	COLI DECAY	NCM DECAY	NCM SETT

		MG/L	1/DA	1/DA	1/DA	1/DA	*	*	1/DA	1/DA	1/DA	*	1/DA	*	**	**	1/DA	1/DA	1/DA
41	28.650	7.50	0.47	0.23	0.00	0.00	5.32	5.32	0.03	0.00	0.18	0.25	0.00	0.03	0.57	0.00	0.00	0.00	0.00
42	28.550	7.49	0.47	0.23	0.00	0.00	5.33	5.33	0.03	0.00	0.18	0.25	0.00	0.03	0.58	0.00	0.00	0.00	0.00
43	28.450	7.48	0.47	0.23	0.00	0.00	5.35	5.35	0.03	0.00	0.18	0.25	0.00	0.03	0.58	0.00	0.00	0.00	0.00
44	28.350	7.47	0.47	0.23	0.00	0.00	5.37	5.37	0.03	0.00	0.18	0.26	0.00	0.03	0.59	0.00	0.00	0.00	0.00
45	28.250	7.46	0.47	0.23	0.00	0.00	5.38	5.38	0.03	0.00	0.18	0.26	0.00	0.03	0.59	0.00	0.00	0.00	0.00
20 DEG C RATE				0.14		0.00		1.60	0.02		0.10	0.12	0.00	0.02			0.00	0.00	
AVG 20 DEG C RATE			0.39		0.00					0.00									0.00

* G/SQ M/D ** MG/L/DAY

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	TOTN MG/L	PHOS MG/L	CHL A UG/L	MACRO **	COLI #/100ML	NCM *
41	28.650	30.38	0.3	436.3	0.0	4.62	3.60	3.60	1.53	0.19	0.06	1.77	0.14	43.8	0.0	0.	0.00
42	28.550	30.46	0.3	436.3	0.0	4.60	3.60	3.60	1.53	0.19	0.06	1.77	0.14	43.7	0.0	0.	0.00
43	28.450	30.54	0.3	436.3	0.0	4.58	3.59	3.59	1.53	0.19	0.06	1.78	0.14	43.7	0.0	0.	0.00
44	28.350	30.62	0.3	436.3	0.0	4.56	3.59	3.59	1.52	0.19	0.06	1.78	0.14	43.6	0.0	0.	0.00
45	28.250	30.70	0.3	436.3	0.0	4.54	3.59	3.59	1.52	0.20	0.06	1.78	0.14	43.6	0.0	0.	0.00

* CM-I = cond umhos CM-II = NCM =
** G/CU M

********** ALGAE AND MACROPHYTE DATA **********

ELEM NO.	ENDING DIST	SECCHI DEPTH M	NITR PREF	ALG SETT 1/DA	ALG LIT LIM	ALG N LIM	ALG P LIM	ALG N&P LIM	ALG TOT LIM	ALG GROW 1/DA	ALG RESP 1/DA	A P/R RATIO	MAC LIT LIM	MAC N LIM	MAC P LIM	MAC N&P LIM	MAC TOT LIM	MAC GROW 1/DA	MAC RESP 1/DA	M P/R RATIO
41	28.650	0.62	0.23	0.30	.23	.45	.78	.57	.13	0.34	0.16	1.68	.00	.00	.00	.00	.00	0.00	0.00	0.00
42	28.550	0.62	0.23	0.30	.23	.45	.78	.57	.13	0.34	0.16	1.68	.00	.00	.00	.00	.00	0.00	0.00	0.00
43	28.450	0.62	0.23	0.30	.23	.45	.78	.57	.13	0.34	0.16	1.69	.00	.00	.00	.00	.00	0.00	0.00	0.00
44	28.350	0.62	0.23	0.30	.23	.46	.78	.58	.13	0.34	0.16	1.69	.00	.00	.00	.00	.00	0.00	0.00	0.00
45	28.250	0.62	0.23	0.30	.23	.46	.78	.58	.13	0.35	0.16	1.69	.00	.00	.00	.00	.00	0.00	0.00	0.00
20 DEG C RATE				0.50						1.62	0.10							0.00	0.00	

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

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FINAL REPORT Lake Des Allemands QUAL-TX simulation for Upper Bayou Des Allemands, LA
REACH NO. 5 Bayou Des Allemands Adjusted Calibration

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

ELEM NO.	TYPE	FLOW CMS	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	PHOS MG/L	CHL A UG/L	COLI #/100ML	NCM *
46	UPR RCH	88.6800	30.70	0.28	436.3	0.0	4.54	3.59	3.59	1.52	0.20	0.06	0.14	43.6	0.	0.00

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

ELEM NO.	BEGIN DIST KM	ENDING DIST KM	FLOW CMS	PCT EFF	ADVCTV VELO M/S	TRAVEL TIME DAYS	DEPTH M	WIDTH M	VOLUME CU M	SURFACE AREA SQ M	X-SECT AREA SQ M	TIDAL PRISM CU M	TIDAL VELO M/S	DISPRSN SQ M/S	MEAN VELO M/S
46	28.25	28.15	88.6800	5.0	0.158	0.01	2.16	260.1	56180.	26009.2	561.8	0.	0.000	4.500	0.158
47	28.15	28.05	88.6800	5.0	0.158	0.01	2.16	260.1	56180.	26009.2	561.8	0.	0.000	4.500	0.158
48	28.05	27.95	88.6800	5.0	0.158	0.01	2.16	260.1	56180.	26009.2	561.8	0.	0.000	4.500	0.158
49	27.95	27.85	88.6800	5.0	0.158	0.01	2.16	260.1	56180.	26009.2	561.8	0.	0.000	4.500	0.158
50	27.85	27.75	88.6800	5.0	0.158	0.01	2.16	260.1	56180.	26009.2	561.8	0.	0.000	4.500	0.158
51	27.75	27.65	88.6800	5.0	0.158	0.01	2.16	260.1	56180.	26009.2	561.8	0.	0.000	4.500	0.158
52	27.65	27.55	88.6800	5.0	0.158	0.01	2.16	260.1	56180.	26009.2	561.8	0.	0.000	4.500	0.158
53	27.55	27.45	88.6800	5.0	0.158	0.01	2.16	260.1	56180.	26009.2	561.8	0.	0.000	4.500	0.158
54	27.45	27.35	88.6800	5.0	0.158	0.01	2.16	260.1	56180.	26009.2	561.8	0.	0.000	4.500	0.158
55	27.35	27.25	88.6800	5.0	0.158	0.01	2.16	260.1	56180.	26009.2	561.8	0.	0.000	4.500	0.158
TOT						0.07			561798.	260091.6					
AVG					0.158		2.16	260.1			561.8				
CUM						1.13									

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

ELEM NO.	ENDING DIST	SAT D.O. MG/L	REAER RATE 1/DA	CBOD DECAY 1/DA	CBOD SETT 1/DA	ANBOD DECAY 1/DA	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
46	28.150	7.45	0.60	0.23	0.00	0.00	5.39	5.39	0.03	0.00	0.18	0.39	0.00	0.02	0.60	0.00	0.00	0.00	0.00
47	28.050	7.45	0.60	0.23	0.00	0.00	5.40	5.40	0.03	0.00	0.19	0.39	0.00	0.02	0.60	0.00	0.00	0.00	0.00
48	27.950	7.44	0.60	0.23	0.00	0.00	5.41	5.41	0.03	0.00	0.19	0.39	0.00	0.02	0.61	0.00	0.00	0.00	0.00
49	27.850	7.44	0.60	0.23	0.00	0.00	5.42	5.42	0.03	0.00	0.19	0.39	0.00	0.02	0.61	0.00	0.00	0.00	0.00
50	27.750	7.43	0.60	0.23	0.00	0.00	5.43	5.43	0.03	0.00	0.19	0.39	0.00	0.02	0.62	0.00	0.00	0.00	0.00
51	27.650	7.43	0.60	0.23	0.00	0.00	5.43	5.43	0.03	0.00	0.19	0.39	0.00	0.02	0.62	0.00	0.00	0.00	0.00
52	27.550	7.42	0.60	0.23	0.00	0.00	5.44	5.44	0.03	0.00	0.19	0.39	0.00	0.02	0.63	0.00	0.00	0.00	0.00
53	27.450	7.42	0.61	0.23	0.00	0.00	5.45	5.45	0.03	0.00	0.19	0.40	0.00	0.02	0.63	0.00	0.00	0.00	0.00
54	27.350	7.41	0.61	0.23	0.00	0.00	5.46	5.46	0.03	0.00	0.19	0.40	0.00	0.02	0.63	0.00	0.00	0.00	0.00
55	27.250	7.41	0.61	0.23	0.00	0.00	5.47	5.47	0.03	0.00	0.19	0.40	0.00	0.02	0.64	0.00	0.00	0.00	0.00
20 DEG C RATE				0.14		0.00		1.60	0.02		0.10	0.18	0.00	0.02			0.00	0.00	
AVG 20 DEG C RATE			0.49		0.00					0.00									0.00

* G/SQ M/D ** MG/L/DAY

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	TOTN MG/L	PHOS MG/L	CHL A UG/L	MACRO **	COLI #/100ML	NCM *
46	28.150	30.74	0.3	436.3	0.0	4.54	3.58	3.58	1.52	0.20	0.06	1.78	0.14	43.5	0.0	0.	0.00
47	28.050	30.78	0.3	436.3	0.0	4.53	3.58	3.58	1.52	0.20	0.06	1.78	0.14	43.5	0.0	0.	0.00
48	27.950	30.82	0.3	436.3	0.0	4.52	3.57	3.57	1.52	0.20	0.06	1.78	0.14	43.4	0.0	0.	0.00
49	27.850	30.86	0.3	436.3	0.0	4.51	3.57	3.57	1.52	0.20	0.06	1.78	0.14	43.4	0.0	0.	0.00
50	27.750	30.90	0.3	436.3	0.0	4.50	3.56	3.56	1.52	0.20	0.06	1.78	0.14	43.4	0.0	0.	0.00
51	27.650	30.94	0.3	436.3	0.0	4.49	3.56	3.56	1.52	0.20	0.06	1.78	0.14	43.3	0.0	0.	0.00
52	27.550	30.98	0.3	436.3	0.0	4.49	3.55	3.55	1.52	0.20	0.06	1.78	0.14	43.3	0.0	0.	0.00
53	27.450	31.02	0.3	436.3	0.0	4.48	3.55	3.55	1.52	0.21	0.06	1.79	0.14	43.3	0.0	0.	0.00
54	27.350	31.06	0.3	436.3	0.0	4.47	3.54	3.54	1.52	0.21	0.06	1.79	0.14	43.2	0.0	0.	0.00
55	27.250	31.10	0.3	436.3	0.0	4.46	3.53	3.53	1.52	0.21	0.06	1.79	0.14	43.2	0.0	0.	0.00

* CM-I = cond umhos CM-II = NCM =
** G/CU M

********** ALGAE AND MACROPHYTE DATA **********

ELEM NO.	ENDING DIST	SECCHI DEPTH M	NITR PREF	ALG SETT 1/DA	ALG LIT LIM	ALG N LIM	ALG P LIM	ALG N&P LIM	ALG TOT LIM	ALG GROW 1/DA	ALG RESP 1/DA	A P/R RATIO	MAC LIT LIM	MAC N LIM	MAC P LIM	MAC N&P LIM	MAC TOT LIM	MAC GROW 1/DA	MAC RESP 1/DA	M P/R RATIO
46	28.150	0.62	0.23	0.30	.23	.46	.78	.58	.13	0.35	0.16	1.70	.00	.00	.00	.00	.00	0.00	0.00	0.00
47	28.050	0.62	0.23	0.30	.23	.46	.78	.58	.13	0.35	0.16	1.70	.00	.00	.00	.00	.00	0.00	0.00	0.00
48	27.950	0.62	0.22	0.30	.23	.46	.78	.58	.13	0.35	0.16	1.71	.00	.00	.00	.00	.00	0.00	0.00	0.00
49	27.850	0.62	0.22	0.30	.23	.46	.78	.58	.13	0.35	0.16	1.71	.00	.00	.00	.00	.00	0.00	0.00	0.00
50	27.750	0.62	0.22	0.30	.23	.46	.78	.58	.13	0.35	0.16	1.72	.00	.00	.00	.00	.00	0.00	0.00	0.00
51	27.650	0.62	0.22	0.30	.23	.47	.78	.58	.13	0.36	0.17	1.72	.00	.00	.00	.00	.00	0.00	0.00	0.00
52	27.550	0.62	0.22	0.30	.23	.47	.78	.58	.13	0.36	0.17	1.73	.00	.00	.00	.00	.00	0.00	0.00	0.00
53	27.450	0.62	0.22	0.30	.23	.47	.78	.58	.13	0.36	0.17	1.73	.00	.00	.00	.00	.00	0.00	0.00	0.00
54	27.350	0.62	0.22	0.30	.23	.47	.78	.59	.13	0.36	0.17	1.74	.00	.00	.00	.00	.00	0.00	0.00	0.00
55	27.250	0.62	0.22	0.30	.23	.47	.78	.59	.13	0.36	0.17	1.74	.00	.00	.00	.00	.00	0.00	0.00	0.00
20 DEG C RATE				0.50						1.62	0.10							0.00	0.00	

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

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FINAL REPORT Lake Des Allemands QUAL-TX simulation for Upper Bayou Des Allemands, LA
REACH NO. 6 Bayou Des Allemands Adjusted Calibration

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

ELEM NO.	TYPE	FLOW CMS	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	PHOS MG/L	CHL A UG/L	COLI #/100ML	NCM *
56	UPR RCH	88.6800	31.10	0.28	436.3	0.0	4.46	3.53	3.53	1.52	0.21	0.06	0.14	43.2	0.	0.00

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

ELEM NO.	BEGIN DIST KM	ENDING DIST KM	FLOW CMS	PCT EFF	ADVCTV VELO M/S	TRAVEL TIME DAYS	DEPTH M	WIDTH M	VOLUME CU M	SURFACE AREA SQ M	X-SECT AREA SQ M	TIDAL PRISM CU M	TIDAL VELO M/S	DISPRSN SQ M/S	MEAN VELO M/S
56	27.25	27.15	88.6800	5.0	0.130	0.01	2.62	259.6	68027.	25964.6	680.3	0.	0.000	4.500	0.130
57	27.15	27.05	88.6800	5.0	0.130	0.01	2.62	259.6	68027.	25964.6	680.3	0.	0.000	4.500	0.130
58	27.05	26.95	88.6800	5.0	0.130	0.01	2.62	259.6	68027.	25964.6	680.3	0.	0.000	4.500	0.130
59	26.95	26.85	88.6800	5.0	0.130	0.01	2.62	259.6	68027.	25964.6	680.3	0.	0.000	4.500	0.130
60	26.85	26.75	88.6800	5.0	0.130	0.01	2.62	259.6	68027.	25964.6	680.3	0.	0.000	4.500	0.130
61	26.75	26.65	88.6800	5.0	0.130	0.01	2.62	259.6	68027.	25964.6	680.3	0.	0.000	4.500	0.130
62	26.65	26.55	88.6800	5.0	0.130	0.01	2.62	259.6	68027.	25964.6	680.3	0.	0.000	4.500	0.130
63	26.55	26.45	88.6800	5.0	0.130	0.01	2.62	259.6	68027.	25964.6	680.3	0.	0.000	4.500	0.130
64	26.45	26.35	88.6800	5.0	0.130	0.01	2.62	259.6	68027.	25964.6	680.3	0.	0.000	4.500	0.130
65	26.35	26.25	88.6800	5.0	0.130	0.01	2.62	259.6	68027.	25964.6	680.3	0.	0.000	4.500	0.130
TOT						0.09			680272.	259645.8					
AVG					0.130		2.62	259.6			680.3				
CUM						1.22									

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

ELEM NO.	ENDING DIST	SAT D.O. MG/L	REAER RATE 1/DA	CBOD DECAY 1/DA	CBOD SETT 1/DA	ANBOD DECAY 1/DA	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
56	27.150	7.41	0.41	0.23	0.00	0.00	5.45	5.45	0.03	0.00	0.19	0.44	0.00	0.02	0.39	0.00	0.00	0.00	0.00
57	27.050	7.42	0.41	0.23	0.00	0.00	5.44	5.44	0.03	0.00	0.19	0.44	0.00	0.02	0.39	0.00	0.00	0.00	0.00
58	26.950	7.42	0.41	0.23	0.00	0.00	5.43	5.43	0.03	0.00	0.19	0.44	0.00	0.02	0.39	0.00	0.00	0.00	0.00
59	26.850	7.43	0.41	0.23	0.00	0.00	5.42	5.42	0.03	0.00	0.19	0.44	0.00	0.02	0.39	0.00	0.00	0.00	0.00
60	26.750	7.43	0.41	0.23	0.00	0.00	5.41	5.41	0.03	0.00	0.19	0.44	0.00	0.02	0.40	0.00	0.00	0.00	0.00
61	26.650	7.44	0.41	0.23	0.00	0.00	5.39	5.39	0.03	0.00	0.18	0.43	0.00	0.02	0.40	0.00	0.00	0.00	0.00
62	26.550	7.44	0.41	0.23	0.00	0.00	5.38	5.38	0.03	0.00	0.18	0.43	0.00	0.02	0.40	0.00	0.00	0.00	0.00
63	26.450	7.45	0.41	0.23	0.00	0.00	5.37	5.37	0.03	0.00	0.18	0.43	0.00	0.02	0.40	0.00	0.00	0.00	0.00
64	26.350	7.45	0.41	0.23	0.00	0.00	5.36	5.36	0.03	0.00	0.18	0.43	0.00	0.02	0.40	0.00	0.00	0.00	0.00
65	26.250	7.46	0.41	0.23	0.00	0.00	5.34	5.34	0.03	0.00	0.18	0.43	0.00	0.02	0.41	0.00	0.00	0.00	0.00
20 DEG C RATE				0.14		0.00		1.60	0.02		0.10	0.20	0.00	0.02			0.00	0.00	
AVG 20 DEG C RATE			0.34		0.00					0.00									0.00

* G/SQ M/D ** MG/L/DAY

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	TOTN MG/L	PHOS MG/L	CHL A UG/L	MACRO **	COLI #/100ML	NCM *
56	27.150	31.06	0.3	436.3	0.0	4.45	3.53	3.53	1.52	0.21	0.06	1.79	0.14	43.2	0.0	0.	0.00
57	27.050	31.02	0.3	436.3	0.0	4.43	3.52	3.52	1.52	0.21	0.06	1.79	0.14	43.1	0.0	0.	0.00
58	26.950	30.98	0.3	436.3	0.0	4.42	3.52	3.52	1.52	0.21	0.06	1.79	0.14	43.1	0.0	0.	0.00
59	26.850	30.94	0.3	436.3	0.0	4.41	3.51	3.51	1.52	0.21	0.06	1.79	0.14	43.0	0.0	0.	0.00
60	26.750	30.90	0.3	436.3	0.0	4.40	3.50	3.50	1.52	0.22	0.06	1.79	0.14	43.0	0.0	0.	0.00
61	26.650	30.86	0.3	436.3	0.0	4.38	3.50	3.50	1.52	0.22	0.06	1.80	0.14	43.0	0.0	0.	0.00
62	26.550	30.82	0.3	436.3	0.0	4.37	3.49	3.49	1.52	0.22	0.06	1.80	0.14	42.9	0.0	0.	0.00
63	26.450	30.78	0.3	436.3	0.0	4.36	3.48	3.48	1.52	0.22	0.06	1.80	0.14	42.9	0.0	0.	0.00
64	26.350	30.74	0.3	436.3	0.0	4.35	3.48	3.48	1.52	0.22	0.06	1.80	0.14	42.8	0.0	0.	0.00
65	26.250	30.70	0.3	436.3	0.0	4.33	3.47	3.47	1.52	0.22	0.06	1.80	0.14	42.8	0.0	0.	0.00

* CM-I = cond umhos CM-II = NCM =
** G/CU M

********** ALGAE AND MACROPHYTE DATA **********

ELEM NO.	ENDING DIST	SECCHI DEPTH M	NITR PREF	ALG SETT 1/DA	ALG LIT LIM	ALG N LIM	ALG P LIM	ALG N&P LIM	ALG TOT LIM	ALG GROW 1/DA	ALG RESP 1/DA	A P/R RATIO	MAC LIT LIM	MAC N LIM	MAC P LIM	MAC N&P LIM	MAC TOT LIM	MAC GROW 1/DA	MAC RESP 1/DA	M P/R RATIO
56	27.150	0.62	0.22	0.25	.19	.47	.78	.59	.11	0.30	0.17	1.45	.00	.00	.00	.00	.00	0.00	0.00	0.00
57	27.050	0.62	0.22	0.25	.19	.47	.78	.59	.11	0.30	0.17	1.45	.00	.00	.00	.00	.00	0.00	0.00	0.00
58	26.950	0.62	0.22	0.25	.19	.48	.78	.59	.11	0.30	0.17	1.46	.00	.00	.00	.00	.00	0.00	0.00	0.00
59	26.850	0.62	0.22	0.25	.19	.48	.78	.59	.11	0.30	0.17	1.46	.00	.00	.00	.00	.00	0.00	0.00	0.00
60	26.750	0.62	0.22	0.25	.19	.48	.78	.59	.11	0.30	0.16	1.46	.00	.00	.00	.00	.00	0.00	0.00	0.00
61	26.650	0.62	0.22	0.25	.19	.48	.78	.59	.11	0.30	0.16	1.47	.00	.00	.00	.00	.00	0.00	0.00	0.00
62	26.550	0.62	0.22	0.25	.19	.48	.78	.60	.11	0.30	0.16	1.47	.00	.00	.00	.00	.00	0.00	0.00	0.00
63	26.450	0.62	0.22	0.25	.19	.48	.78	.60	.11	0.30	0.16	1.48	.00	.00	.00	.00	.00	0.00	0.00	0.00
64	26.350	0.62	0.22	0.25	.19	.48	.78	.60	.11	0.30	0.16	1.48	.00	.00	.00	.00	.00	0.00	0.00	0.00
65	26.250	0.62	0.22	0.25	.19	.49	.78	.60	.11	0.30	0.16	1.48	.00	.00	.00	.00	.00	0.00	0.00	0.00
20 DEG C RATE				0.50						1.62	0.10							0.00	0.00	

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

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FINAL REPORT Lake Des Allemands QUAL-TX simulation for Upper Bayou Des Allemands, LA
REACH NO. 7 Bayou Des Allemands Adjusted Calibration

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

ELEM NO.	TYPE	FLOW CMS	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	PHOS MG/L	CHL A UG/L	COLI #/100ML	NCM *
66	UPR RCH	88.6800	30.70	0.27	436.3	0.0	4.33	3.47	3.47	1.52	0.22	0.06	0.14	42.8	0.	0.00

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

ELEM NO.	BEGIN DIST KM	ENDING DIST KM	FLOW CMS	PCT EFF	ADVCTV VELO M/S	TRAVEL TIME DAYS	DEPTH M	WIDTH M	VOLUME CU M	SURFACE AREA SQ M	X-SECT AREA SQ M	TIDAL PRISM CU M	TIDAL VELO M/S	DISPRSN SQ M/S	MEAN VELO M/S
66	26.25	26.15	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
67	26.15	26.05	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
68	26.05	25.95	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
69	25.95	25.85	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
70	25.85	25.75	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
71	25.75	25.65	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
72	25.65	25.55	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
73	25.55	25.45	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
74	25.45	25.35	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
75	25.35	25.25	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
TOT						0.10			800000.	259740.3					
AVG					0.111		3.08	259.7			800.0				
CUM						1.32									

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

ELEM NO.	ENDING DIST	SAT D.O. MG/L	REAER RATE 1/DA	CBOD DECAY 1/DA	CBOD SETT 1/DA	ANBOD DECAY 1/DA	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
66	26.150	7.46	0.33	0.23	0.00	0.00	5.34	5.34	0.03	0.00	0.18	0.43	0.00	0.02	0.22	0.00	0.00	0.00	0.00
67	26.050	7.46	0.33	0.23	0.00	0.00	5.34	5.34	0.03	0.00	0.18	0.43	0.00	0.02	0.23	0.00	0.00	0.00	0.00
68	25.950	7.46	0.33	0.23	0.00	0.00	5.34	5.34	0.03	0.00	0.18	0.43	0.00	0.02	0.23	0.00	0.00	0.00	0.00
69	25.850	7.46	0.33	0.23	0.00	0.00	5.33	5.33	0.03	0.00	0.18	0.43	0.00	0.02	0.23	0.00	0.00	0.00	0.00
70	25.750	7.46	0.33	0.23	0.00	0.00	5.33	5.33	0.03	0.00	0.18	0.43	0.00	0.02	0.23	0.00	0.00	0.00	0.00
71	25.650	7.46	0.33	0.23	0.00	0.00	5.33	5.33	0.03	0.00	0.18	0.43	0.00	0.02	0.23	0.00	0.00	0.00	0.00
72	25.550	7.46	0.33	0.23	0.00	0.00	5.33	5.33	0.03	0.00	0.18	0.43	0.00	0.02	0.24	0.00	0.00	0.00	0.00
73	25.450	7.46	0.33	0.23	0.00	0.00	5.32	5.32	0.03	0.00	0.18	0.43	0.00	0.02	0.24	0.00	0.00	0.00	0.00
74	25.350	7.46	0.33	0.23	0.00	0.00	5.32	5.32	0.03	0.00	0.18	0.43	0.00	0.02	0.24	0.00	0.00	0.00	0.00
75	25.250	7.46	0.33	0.23	0.00	0.00	5.32	5.32	0.03	0.00	0.18	0.43	0.00	0.02	0.24	0.00	0.00	0.00	0.00
20 DEG C RATE				0.14		0.00		1.60	0.02		0.10	0.20	0.00	0.02			0.00	0.00	
AVG 20 DEG C RATE			0.27		0.00					0.00									0.00

* G/SQ M/D ** MG/L/DAY

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	TOTN MG/L	PHOS MG/L	CHL A UG/L	MACRO **	COLI #/100ML	NCM *
66	26.150	30.70	0.3	436.3	0.0	4.32	3.46	3.46	1.52	0.22	0.06	1.80	0.14	42.7	0.0	0.	0.00
67	26.050	30.70	0.3	436.3	0.0	4.30	3.45	3.45	1.51	0.23	0.06	1.80	0.14	42.7	0.0	0.	0.00
68	25.950	30.70	0.3	436.3	0.0	4.29	3.45	3.45	1.51	0.23	0.06	1.80	0.14	42.6	0.0	0.	0.00
69	25.850	30.70	0.3	436.3	0.0	4.28	3.44	3.44	1.51	0.23	0.06	1.80	0.14	42.6	0.0	0.	0.00
70	25.750	30.70	0.3	436.3	0.0	4.26	3.43	3.43	1.51	0.23	0.06	1.81	0.14	42.5	0.0	0.	0.00
71	25.650	30.70	0.3	436.3	0.0	4.25	3.43	3.43	1.51	0.23	0.06	1.81	0.14	42.5	0.0	0.	0.00
72	25.550	30.70	0.3	436.3	0.0	4.23	3.42	3.42	1.51	0.23	0.06	1.81	0.14	42.4	0.0	0.	0.00
73	25.450	30.70	0.3	436.3	0.0	4.22	3.41	3.41	1.51	0.23	0.06	1.81	0.14	42.4	0.0	0.	0.00
74	25.350	30.70	0.3	436.3	0.0	4.20	3.40	3.40	1.51	0.24	0.06	1.81	0.14	42.3	0.0	0.	0.00
75	25.250	30.70	0.3	436.3	0.0	4.19	3.40	3.40	1.51	0.24	0.06	1.81	0.14	42.3	0.0	0.	0.00

* CM-I = cond umhos CM-II = NCM =
** G/CU M

********** ALGAE AND MACROPHYTE DATA **********

ELEM NO.	ENDING DIST	SECCHI DEPTH M	NITR PREF	ALG SETT 1/DA	ALG LIT LIM	ALG N LIM	ALG P LIM	ALG N&P LIM	ALG TOT LIM	ALG GROW 1/DA	ALG RESP 1/DA	A P/R RATIO	MAC LIT LIM	MAC N LIM	MAC P LIM	MAC N&P LIM	MAC TOT LIM	MAC GROW 1/DA	MAC RESP 1/DA	M P/R RATIO
66	26.150	0.62	0.22	0.21	.16	.49	.78	.60	.10	0.26	0.16	1.27	.00	.00	.00	.00	.00	0.00	0.00	0.00
67	26.050	0.62	0.22	0.21	.16	.49	.78	.60	.10	0.26	0.16	1.27	.00	.00	.00	.00	.00	0.00	0.00	0.00
68	25.950	0.62	0.22	0.21	.16	.49	.78	.60	.10	0.26	0.16	1.27	.00	.00	.00	.00	.00	0.00	0.00	0.00
69	25.850	0.62	0.21	0.21	.16	.49	.78	.60	.10	0.26	0.16	1.28	.00	.00	.00	.00	.00	0.00	0.00	0.00
70	25.750	0.62	0.21	0.21	.16	.49	.78	.60	.10	0.26	0.16	1.28	.00	.00	.00	.00	.00	0.00	0.00	0.00
71	25.650	0.62	0.21	0.21	.16	.50	.78	.61	.10	0.26	0.16	1.28	.00	.00	.00	.00	.00	0.00	0.00	0.00
72	25.550	0.62	0.21	0.21	.16	.50	.78	.61	.10	0.26	0.16	1.28	.00	.00	.00	.00	.00	0.00	0.00	0.00
73	25.450	0.62	0.21	0.21	.16	.50	.78	.61	.10	0.26	0.16	1.29	.00	.00	.00	.00	.00	0.00	0.00	0.00
74	25.350	0.62	0.21	0.21	.16	.50	.78	.61	.10	0.26	0.16	1.29	.00	.00	.00	.00	.00	0.00	0.00	0.00
75	25.250	0.62	0.21	0.21	.16	.50	.78	.61	.10	0.26	0.16	1.29	.00	.00	.00	.00	.00	0.00	0.00	0.00
20 DEG C RATE				0.50						1.62	0.10							0.00	0.00	

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

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FINAL REPORT Lake Des Allemands QUAL-TX simulation for Upper Bayou Des Allemands, LA
REACH NO. 8 Bayou Des Allemands Adjusted Calibration

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

ELEM TYPE FLOW TEMP SALN CM-I CM-II DO BOD EBOD ORGN NH3 NO3+2 PHOS CHL A COLI NCM

NO.		CMS	DEG C	PPT	*	*	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	UG/L	#/100ML	*
76	UPR RCH	88.6800	30.70	0.27	436.3	0.0	4.19	3.40	3.40	1.51	0.24	0.06	0.14	42.3	0.	0.00

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

ELEM NO.	BEGIN DIST KM	ENDING DIST KM	FLOW CMS	PCT EFF	ADVCTV VELO M/S	TRAVEL TIME DAYS	DEPTH M	WIDTH M	VOLUME CU M	SURFACE AREA SQ M	X-SECT AREA SQ M	TIDAL PRISM CU M	TIDAL VELO M/S	DISPRSN SQ M/S	MEAN VELO M/S
76	25.25	25.15	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
77	25.15	25.05	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
78	25.05	24.95	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
79	24.95	24.85	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
80	24.85	24.75	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
81	24.75	24.65	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
82	24.65	24.55	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
83	24.55	24.45	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
84	24.45	24.35	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
85	24.35	24.25	88.6800	5.0	0.111	0.01	3.08	259.7	80000.	25974.0	800.0	0.	0.000	4.500	0.111
TOT						0.10			800000.	259740.3					
AVG					0.111		3.08	259.7			800.0				
CUM						1.43									

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

ELEM NO.	ENDING DIST	SAT D.O. MG/L	REAER RATE 1/DA	CBOD DECAY 1/DA	CBOD SETT 1/DA	ANBOD DECAY 1/DA	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
76	25.150	7.46	0.33	0.23	0.00	0.00	5.71	5.71	0.03	0.00	0.18	0.43	0.00	0.02	0.24	0.00	0.00	0.00	0.00
77	25.050	7.46	0.33	0.23	0.00	0.00	5.71	5.71	0.03	0.00	0.18	0.43	0.00	0.02	0.25	0.00	0.00	0.00	0.00
78	24.950	7.46	0.33	0.23	0.00	0.00	5.70	5.70	0.03	0.00	0.18	0.43	0.00	0.02	0.25	0.00	0.00	0.00	0.00
79	24.850	7.46	0.33	0.23	0.00	0.00	5.70	5.70	0.03	0.00	0.18	0.43	0.00	0.02	0.25	0.00	0.00	0.00	0.00
80	24.750	7.46	0.33	0.23	0.00	0.00	5.70	5.70	0.03	0.00	0.18	0.43	0.00	0.02	0.25	0.00	0.00	0.00	0.00
81	24.650	7.46	0.33	0.23	0.00	0.00	5.70	5.70	0.03	0.00	0.18	0.43	0.00	0.02	0.25	0.00	0.00	0.00	0.00
82	24.550	7.46	0.33	0.23	0.00	0.00	5.69	5.69	0.03	0.00	0.18	0.43	0.00	0.02	0.26	0.00	0.00	0.00	0.00
83	24.450	7.46	0.33	0.23	0.00	0.00	5.69	5.69	0.03	0.00	0.18	0.43	0.00	0.02	0.26	0.00	0.00	0.00	0.00
84	24.350	7.46	0.33	0.23	0.00	0.00	5.69	5.69	0.03	0.00	0.18	0.43	0.00	0.02	0.26	0.00	0.00	0.00	0.00
85	24.250	7.46	0.33	0.23	0.00	0.00	5.69	5.69	0.03	0.00	0.18	0.43	0.00	0.02	0.26	0.00	0.00	0.00	0.00
20 DEG C RATE				0.14		0.00		1.80	0.02		0.10	0.20	0.00	0.01			0.00	0.00	
AVG 20 DEG C RATE			0.27		0.00					0.00									0.00

* G/SQ M/D ** MG/L/DAY

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	TOTN MG/L	PHOS MG/L	CHL A UG/L	MACRO **	COLI #/100ML	NCM *
76	25.150	30.70	0.3	436.3	0.0	4.17	3.39	3.39	1.51	0.24	0.06	1.81	0.14	42.2	0.0	0.	0.00
77	25.050	30.70	0.3	436.3	0.0	4.16	3.38	3.38	1.51	0.24	0.07	1.81	0.14	42.2	0.0	0.	0.00
78	24.950	30.70	0.3	436.3	0.0	4.14	3.38	3.38	1.51	0.24	0.07	1.82	0.14	42.2	0.0	0.	0.00
79	24.850	30.70	0.3	436.3	0.0	4.13	3.37	3.37	1.51	0.24	0.07	1.82	0.14	42.1	0.0	0.	0.00
80	24.750	30.70	0.3	436.3	0.0	4.11	3.37	3.37	1.51	0.24	0.07	1.82	0.14	42.1	0.0	0.	0.00
81	24.650	30.70	0.3	436.3	0.0	4.10	3.36	3.36	1.51	0.25	0.07	1.82	0.14	42.0	0.0	0.	0.00
82	24.550	30.70	0.3	436.3	0.0	4.08	3.35	3.35	1.51	0.25	0.07	1.82	0.14	42.0	0.0	0.	0.00
83	24.450	30.70	0.3	436.3	0.0	4.07	3.35	3.35	1.51	0.25	0.07	1.82	0.14	41.9	0.0	0.	0.00
84	24.350	30.70	0.3	436.3	0.0	4.05	3.34	3.34	1.51	0.25	0.07	1.82	0.14	41.9	0.0	0.	0.00
85	24.250	30.70	0.3	436.3	0.0	4.04	3.34	3.34	1.51	0.25	0.07	1.82	0.14	41.8	0.0	0.	0.00

* CM-I = cond umhos CM-II = NCM =
** G/CU M

********** ALGAE AND MACROPHYTE DATA **********

ELEM NO.	ENDING DIST	SECCHI DEPTH M	NITR PREF	ALG SETT 1/DA	ALG LIT LIM	ALG N LIM	ALG P LIM	ALG N&P LIM	ALG TOT LIM	ALG GROW 1/DA	ALG RESP 1/DA	A P/R RATIO	MAC LIT LIM	MAC N LIM	MAC P LIM	MAC N&P LIM	MAC TOT LIM	MAC GROW 1/DA	MAC RESP 1/DA	M P/R RATIO
76	25.150	0.62	0.21	0.21	.16	.50	.78	.61	.10	0.26	0.16	1.30	.00	.00	.00	.00	.00	0.00	0.00	0.00
77	25.050	0.62	0.21	0.21	.16	.50	.78	.61	.10	0.27	0.16	1.30	.00	.00	.00	.00	.00	0.00	0.00	0.00
78	24.950	0.62	0.21	0.21	.16	.51	.78	.61	.10	0.27	0.16	1.30	.00	.00	.00	.00	.00	0.00	0.00	0.00
79	24.850	0.62	0.21	0.21	.16	.51	.78	.61	.10	0.27	0.16	1.30	.00	.00	.00	.00	.00	0.00	0.00	0.00
80	24.750	0.62	0.21	0.21	.16	.51	.78	.62	.10	0.27	0.16	1.31	.00	.00	.00	.00	.00	0.00	0.00	0.00
81	24.650	0.62	0.21	0.21	.16	.51	.78	.62	.10	0.27	0.16	1.31	.00	.00	.00	.00	.00	0.00	0.00	0.00
82	24.550	0.62	0.21	0.21	.16	.51	.78	.62	.10	0.27	0.16	1.31	.00	.00	.00	.00	.00	0.00	0.00	0.00
83	24.450	0.62	0.21	0.21	.16	.51	.78	.62	.10	0.27	0.16	1.31	.00	.00	.00	.00	.00	0.00	0.00	0.00
84	24.350	0.62	0.21	0.21	.16	.51	.78	.62	.10	0.27	0.16	1.32	.00	.00	.00	.00	.00	0.00	0.00	0.00
85	24.250	0.63	0.21	0.21	.16	.52	.78	.62	.10	0.27	0.16	1.32	.00	.00	.00	.00	.00	0.00	0.00	0.00
20 DEG C RATE				0.50						1.62	0.10							0.00	0.00	

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

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FINAL REPORT Lake Des Allemands QUAL-TX simulation for Upper Bayou Des Allemands, LA
REACH NO. 9 Bayou Des Allemands Adjusted Calibration

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

ELEM NO.	TYPE	FLOW CMS	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	PHOS MG/L	CHL A UG/L	COLI #/100ML	NCM *

86	UPR RCH	88.6800	30.70	0.27	436.3	0.0	4.04	3.34	3.34	1.51	0.25	0.07	0.14	41.8	0.	0.00

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

ELEM NO.	BEGIN DIST KM	ENDING DIST KM	FLOW CMS	PCT EFF	ADVCTV VELO M/S	TRAVEL TIME DAYS	DEPTH M	WIDTH M	VOLUME CU M	SURFACE AREA SQ M	X-SECT AREA SQ M	TIDAL PRISM CU M	TIDAL VELO M/S	DISPRSN SQ M/S	MEAN VELO M/S
86	24.25	24.15	88.6800	5.0	0.122	0.01	2.79	259.7	72464.	25972.7	724.6	0.	0.000	4.500	0.122
87	24.15	24.05	88.6800	5.0	0.122	0.01	2.79	259.7	72464.	25972.7	724.6	0.	0.000	4.500	0.122
88	24.05	23.95	88.6800	5.0	0.122	0.01	2.79	259.7	72464.	25972.7	724.6	0.	0.000	4.500	0.122
89	23.95	23.85	88.6800	5.0	0.122	0.01	2.79	259.7	72464.	25972.7	724.6	0.	0.000	4.500	0.122
90	23.85	23.75	88.6800	5.0	0.122	0.01	2.79	259.7	72464.	25972.7	724.6	0.	0.000	4.500	0.122
91	23.75	23.65	88.6800	5.0	0.122	0.01	2.79	259.7	72464.	25972.7	724.6	0.	0.000	4.500	0.122
92	23.65	23.55	88.6800	5.0	0.122	0.01	2.79	259.7	72464.	25972.7	724.6	0.	0.000	4.500	0.122
93	23.55	23.45	88.6800	5.0	0.122	0.01	2.79	259.7	72464.	25972.7	724.6	0.	0.000	4.500	0.122
94	23.45	23.35	88.6800	5.0	0.122	0.01	2.79	259.7	72464.	25972.7	724.6	0.	0.000	4.500	0.122
95	23.35	23.25	88.6800	5.0	0.122	0.01	2.79	259.7	72464.	25972.7	724.6	0.	0.000	4.500	0.122
TOT						0.09			724638.	259726.8					
AVG					0.122		2.79	259.7			724.6				
CUM						1.52									

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

ELEM NO.	ENDING DIST	SAT D.O. MG/L	REAER RATE 1/DA	CBOD DECAY 1/DA	CBOD SETT 1/DA	ANBOD DECAY 1/DA	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
86	24.150	7.46	0.37	0.23	0.00	0.00	5.29	5.29	0.03	0.00	0.18	0.47	0.00	0.01	0.37	0.00	0.00	0.00	0.00
87	24.050	7.46	0.37	0.23	0.00	0.00	5.29	5.29	0.03	0.00	0.18	0.47	0.00	0.01	0.38	0.00	0.00	0.00	0.00
88	23.950	7.46	0.37	0.23	0.00	0.00	5.29	5.29	0.03	0.00	0.18	0.47	0.00	0.01	0.38	0.00	0.00	0.00	0.00
89	23.850	7.46	0.37	0.23	0.00	0.00	5.29	5.29	0.03	0.00	0.18	0.47	0.00	0.01	0.38	0.00	0.00	0.00	0.00
90	23.750	7.46	0.37	0.23	0.00	0.00	5.29	5.29	0.03	0.00	0.18	0.47	0.00	0.01	0.38	0.00	0.00	0.00	0.00
91	23.650	7.46	0.37	0.23	0.00	0.00	5.28	5.28	0.03	0.00	0.18	0.47	0.00	0.01	0.38	0.00	0.00	0.00	0.00
92	23.550	7.46	0.37	0.23	0.00	0.00	5.28	5.28	0.03	0.00	0.18	0.47	0.00	0.01	0.38	0.00	0.00	0.00	0.00
93	23.450	7.46	0.37	0.23	0.00	0.00	5.28	5.28	0.03	0.00	0.18	0.47	0.00	0.01	0.39	0.00	0.00	0.00	0.00
94	23.350	7.46	0.37	0.23	0.00	0.00	5.28	5.28	0.03	0.00	0.18	0.47	0.00	0.01	0.39	0.00	0.00	0.00	0.00
95	23.250	7.46	0.37	0.23	0.00	0.00	5.28	5.28	0.03	0.00	0.18	0.47	0.00	0.01	0.39	0.00	0.00	0.00	0.00
20 DEG C RATE				0.14		0.00		1.60	0.02		0.10	0.22	0.00	0.00			0.00	0.00	
AVG 20 DEG C RATE			0.30		0.00					0.00									0.00

* G/SQ M/D ** MG/L/DAY

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	TOTN MG/L	PHOS MG/L	CHL A UG/L	MACRO **	COLI #/100ML	NCM *
86	24.150	30.70	0.3	436.3	0.0	4.03	3.33	3.33	1.51	0.25	0.07	1.83	0.14	41.8	0.0	0.	0.00
87	24.050	30.70	0.3	436.3	0.0	4.02	3.33	3.33	1.50	0.25	0.07	1.83	0.14	41.8	0.0	0.	0.00
88	23.950	30.70	0.3	436.3	0.0	4.01	3.32	3.32	1.50	0.26	0.07	1.83	0.14	41.7	0.0	0.	0.00
89	23.850	30.70	0.3	436.3	0.0	3.99	3.32	3.32	1.50	0.26	0.07	1.83	0.14	41.7	0.0	0.	0.00
90	23.750	30.70	0.3	436.3	0.0	3.98	3.31	3.31	1.50	0.26	0.07	1.83	0.14	41.6	0.0	0.	0.00
91	23.650	30.70	0.3	436.3	0.0	3.97	3.30	3.30	1.50	0.26	0.07	1.83	0.14	41.6	0.0	0.	0.00
92	23.550	30.70	0.3	436.3	0.0	3.96	3.30	3.30	1.50	0.26	0.07	1.83	0.14	41.6	0.0	0.	0.00
93	23.450	30.70	0.3	436.3	0.0	3.95	3.29	3.29	1.50	0.26	0.07	1.84	0.14	41.5	0.0	0.	0.00
94	23.350	30.70	0.3	436.3	0.0	3.94	3.29	3.29	1.50	0.26	0.07	1.84	0.14	41.5	0.0	0.	0.00
95	23.250	30.70	0.3	436.3	0.0	3.93	3.28	3.28	1.50	0.27	0.07	1.84	0.14	41.5	0.0	0.	0.00

* CM-I = cond umhos CM-II = NCM =
** G/CU M

********** ALGAE AND MACROPHYTE DATA **********

ELEM NO.	ENDING DIST	SECCHI DEPTH M	NITR PREF	ALG SETT 1/DA	ALG LIT LIM	ALG N LIM	ALG P LIM	ALG N&P LIM	ALG TOT LIM	ALG GROW 1/DA	ALG RESP 1/DA	A P/R RATIO	MAC LIT LIM	MAC N LIM	MAC P LIM	MAC N&P LIM	MAC TOT LIM	MAC GROW 1/DA	MAC RESP 1/DA	M P/R RATIO
86	24.150	0.63	0.21	0.23	.18	.52	.78	.62	.11	0.30	0.16	1.46	.00	.00	.00	.00	.00	0.00	0.00	0.00
87	24.050	0.63	0.21	0.23	.18	.52	.78	.62	.11	0.30	0.16	1.46	.00	.00	.00	.00	.00	0.00	0.00	0.00
88	23.950	0.63	0.21	0.23	.18	.52	.78	.62	.11	0.30	0.16	1.46	.00	.00	.00	.00	.00	0.00	0.00	0.00
89	23.850	0.63	0.21	0.23	.18	.52	.78	.62	.11	0.30	0.16	1.46	.00	.00	.00	.00	.00	0.00	0.00	0.00
90	23.750	0.63	0.21	0.23	.18	.52	.78	.63	.11	0.30	0.16	1.47	.00	.00	.00	.00	.00	0.00	0.00	0.00
91	23.650	0.63	0.21	0.23	.18	.52	.78	.63	.11	0.30	0.16	1.47	.00	.00	.00	.00	.00	0.00	0.00	0.00
92	23.550	0.63	0.21	0.23	.18	.52	.78	.63	.11	0.30	0.16	1.47	.00	.00	.00	.00	.00	0.00	0.00	0.00
93	23.450	0.63	0.21	0.23	.18	.53	.78	.63	.11	0.30	0.16	1.47	.00	.00	.00	.00	.00	0.00	0.00	0.00
94	23.350	0.63	0.21	0.23	.18	.53	.78	.63	.11	0.30	0.16	1.48	.00	.00	.00	.00	.00	0.00	0.00	0.00
95	23.250	0.63	0.21	0.23	.18	.53	.78	.63	.11	0.30	0.16	1.48	.00	.00	.00	.00	.00	0.00	0.00	0.00
20 DEG C RATE				0.50						1.62	0.10							0.00	0.00	

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

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FINAL REPORT Lake Des Allemands QUAL-TX simulation for Upper Bayou Des Allemands, LA
REACH NO. 10 Bayou Des Allemands Adjusted Calibration

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

ELEM NO.	TYPE	FLOW CMS	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	PHOS MG/L	CHL A UG/L	COLI #/100ML	NCM *

96	UPR RCH	88.6800	30.70	0.27	436.3	0.0	3.93	3.28	3.28	1.50	0.27	0.07	0.14	41.5	0.	0.00

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

ELEM NO.	BEGIN DIST KM	ENDING DIST KM	FLOW CMS	PCT EFF	ADVCTV VELO M/S	TRAVEL TIME DAYS	DEPTH M	WIDTH M	VOLUME CU M	SURFACE AREA SQ M	X-SECT AREA SQ M	TIDAL PRISM CU M	TIDAL VELO M/S	DISPRSN SQ M/S	MEAN VELO M/S
96	23.25	23.15	88.6800	5.0	0.137	0.01	2.50	259.7	64935.	25974.0	649.4	0.	0.000	4.500	0.137
97	23.15	23.05	88.6800	5.0	0.137	0.01	2.50	259.7	64935.	25974.0	649.4	0.	0.000	4.500	0.137
98	23.05	22.95	88.6800	5.0	0.137	0.01	2.50	259.7	64935.	25974.0	649.4	0.	0.000	4.500	0.137
99	22.95	22.85	88.6800	5.0	0.137	0.01	2.50	259.7	64935.	25974.0	649.4	0.	0.000	4.500	0.137
100	22.85	22.75	88.6800	5.0	0.137	0.01	2.50	259.7	64935.	25974.0	649.4	0.	0.000	4.500	0.137
101	22.75	22.65	88.6800	5.0	0.137	0.01	2.50	259.7	64935.	25974.0	649.4	0.	0.000	4.500	0.137
102	22.65	22.55	88.6800	5.0	0.137	0.01	2.50	259.7	64935.	25974.0	649.4	0.	0.000	4.500	0.137
103	22.55	22.45	88.6800	5.0	0.137	0.01	2.50	259.7	64935.	25974.0	649.4	0.	0.000	4.500	0.137
104	22.45	22.35	88.6800	5.0	0.137	0.01	2.50	259.7	64935.	25974.0	649.4	0.	0.000	4.500	0.137
105	22.35	22.25	88.6800	5.0	0.137	0.01	2.50	259.7	64935.	25974.0	649.4	0.	0.000	4.500	0.137
TOT						0.08			649351.	259740.3					
AVG					0.137		2.50	259.7			649.4				
CUM						1.61									

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

ELEM NO.	ENDING DIST	SAT D.O. MG/L	REAER RATE 1/DA	CBOD DECAY 1/DA	CBOD SETT 1/DA	ANBOD DECAY 1/DA	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
96	23.150	7.46	0.45	0.23	0.00	0.00	4.89	4.89	0.03	0.00	0.18	0.52	0.00	0.01	0.53	0.00	0.00	0.00	0.00
97	23.050	7.45	0.45	0.23	0.00	0.00	4.89	4.89	0.03	0.00	0.18	0.52	0.00	0.01	0.53	0.00	0.00	0.00	0.00
98	22.950	7.45	0.45	0.23	0.00	0.00	4.89	4.89	0.03	0.00	0.18	0.52	0.00	0.01	0.53	0.00	0.00	0.00	0.00
99	22.850	7.45	0.45	0.23	0.00	0.00	4.89	4.89	0.03	0.00	0.18	0.52	0.00	0.01	0.53	0.00	0.00	0.00	0.00
100	22.750	7.45	0.45	0.23	0.00	0.00	4.89	4.89	0.03	0.00	0.18	0.52	0.00	0.01	0.54	0.00	0.00	0.00	0.00
101	22.650	7.45	0.45	0.23	0.00	0.00	4.89	4.89	0.03	0.00	0.18	0.52	0.00	0.01	0.54	0.00	0.00	0.00	0.00
102	22.550	7.45	0.45	0.23	0.00	0.00	4.89	4.89	0.03	0.00	0.18	0.52	0.00	0.01	0.54	0.00	0.00	0.00	0.00
103	22.450	7.45	0.45	0.23	0.00	0.00	4.89	4.89	0.03	0.00	0.18	0.52	0.00	0.01	0.54	0.00	0.00	0.00	0.00
104	22.350	7.45	0.45	0.23	0.00	0.00	4.89	4.89	0.03	0.00	0.18	0.52	0.00	0.01	0.54	0.00	0.00	0.00	0.00
105	22.250	7.44	0.45	0.23	0.00	0.00	4.89	4.89	0.03	0.00	0.18	0.52	0.00	0.01	0.54	0.00	0.00	0.00	0.00
20 DEG C RATE				0.14		0.00		1.40	0.02		0.10	0.24	0.00	0.00			0.00	0.00	
AVG 20 DEG C RATE			0.37		0.00					0.00									0.00

* G/SQ M/D ** MG/L/DAY

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	TOTN MG/L	PHOS MG/L	CHL A UG/L	MACRO **	COLI #/100ML	NCM *
96	23.150	30.71	0.3	436.3	0.0	3.92	3.28	3.28	1.50	0.27	0.07	1.84	0.14	41.4	0.0	0.	0.00
97	23.050	30.72	0.3	436.3	0.0	3.92	3.28	3.28	1.50	0.27	0.07	1.84	0.14	41.4	0.0	0.	0.00
98	22.950	30.73	0.3	436.3	0.0	3.91	3.27	3.27	1.50	0.27	0.07	1.84	0.14	41.4	0.0	0.	0.00
99	22.850	30.74	0.3	436.3	0.0	3.90	3.27	3.27	1.50	0.27	0.07	1.84	0.14	41.4	0.0	0.	0.00
100	22.750	30.75	0.3	436.3	0.0	3.90	3.26	3.26	1.50	0.27	0.07	1.84	0.14	41.3	0.0	0.	0.00
101	22.650	30.76	0.3	436.3	0.0	3.89	3.26	3.26	1.50	0.28	0.07	1.85	0.14	41.3	0.0	0.	0.00
102	22.550	30.77	0.3	436.3	0.0	3.88	3.25	3.25	1.50	0.28	0.07	1.85	0.14	41.3	0.0	0.	0.00
103	22.450	30.78	0.3	436.3	0.0	3.88	3.25	3.25	1.50	0.28	0.07	1.85	0.14	41.2	0.0	0.	0.00
104	22.350	30.79	0.3	436.3	0.0	3.87	3.25	3.25	1.50	0.28	0.07	1.85	0.14	41.2	0.0	0.	0.00
105	22.250	30.80	0.3	436.3	0.0	3.87	3.24	3.24	1.50	0.28	0.07	1.85	0.14	41.2	0.0	0.	0.00

* CM-I = cond umhos CM-II = NCM =
** G/CU M

********** ALGAE AND MACROPHYTE DATA **********

ELEM NO.	ENDING DIST	SECCHI DEPTH M	NITR PREF	ALG SETT 1/DA	ALG LIT LIM	ALG N LIM	ALG P LIM	ALG N&P LIM	ALG TOT LIM	ALG GROW 1/DA	ALG RESP 1/DA	A P/R RATIO	MAC LIT LIM	MAC N LIM	MAC P LIM	MAC N&P LIM	MAC TOT LIM	MAC GROW 1/DA	MAC RESP 1/DA	M P/R RATIO
96	23.150	0.63	0.21	0.26	.20	.53	.78	.63	.13	0.34	0.16	1.65	.00	.00	.00	.00	.00	0.00	0.00	0.00
97	23.050	0.63	0.21	0.26	.20	.53	.78	.63	.13	0.34	0.16	1.65	.00	.00	.00	.00	.00	0.00	0.00	0.00
98	22.950	0.63	0.21	0.26	.20	.53	.78	.63	.13	0.34	0.16	1.65	.00	.00	.00	.00	.00	0.00	0.00	0.00
99	22.850	0.63	0.21	0.26	.20	.53	.78	.63	.13	0.34	0.16	1.66	.00	.00	.00	.00	.00	0.00	0.00	0.00
100	22.750	0.63	0.21	0.26	.20	.54	.78	.63	.13	0.34	0.16	1.66	.00	.00	.00	.00	.00	0.00	0.00	0.00
101	22.650	0.63	0.21	0.26	.20	.54	.78	.64	.13	0.34	0.16	1.66	.00	.00	.00	.00	.00	0.00	0.00	0.00
102	22.550	0.63	0.21	0.26	.20	.54	.78	.64	.13	0.34	0.16	1.66	.00	.00	.00	.00	.00	0.00	0.00	0.00
103	22.450	0.63	0.21	0.26	.20	.54	.78	.64	.13	0.34	0.16	1.67	.00	.00	.00	.00	.00	0.00	0.00	0.00
104	22.350	0.63	0.21	0.26	.20	.54	.78	.64	.13	0.34	0.16	1.67	.00	.00	.00	.00	.00	0.00	0.00	0.00
105	22.250	0.63	0.21	0.26	.20	.54	.78	.64	.13	0.34	0.16	1.67	.00	.00	.00	.00	.00	0.00	0.00	0.00
20 DEG C RATE				0.50						1.62	0.10							0.00	0.00	

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

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FINAL REPORT Lake Des Allemands QUAL-TX simulation for Upper Bayou Des Allemands, LA
REACH NO. 11 Bayou Des Allemands Adjusted Calibration

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

ELEM NO.	TYPE	FLOW CMS	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	PHOS MG/L	CHL A UG/L	COLI #/100ML	NCM *
106	UPR BCH	88.6800	30.80	0.28	436.3	0.0	3.87	3.24	3.24	1.50	0.28	0.07	0.14	41.2	0.	0.00

112	WSTLD	0.0004	30.80	0.00	503.0	0.0	2.00	60.00	60.00	5.00	10.00	10.00	5.00	0.0	0.	0.00

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

ELEM NO.	BEGIN DIST KM	ENDING DIST KM	FLOW CMS	PCT EFF	ADVCTV VELO M/S	TRAVEL TIME DAYS	DEPTH M	WIDTH M	VOLUME CU M	SURFACE AREA SQ M	X-SECT AREA SQ M	TIDAL PRISM CU M	TIDAL VELO M/S	DISPRSN SQ M/S	MEAN VELO M/S
106	22.25	22.15	88.6800	5.0	0.326	0.00	2.50	108.7	27174.	10869.6	271.7	0.	0.000	4.500	0.326
107	22.15	22.05	88.6800	5.0	0.326	0.00	2.50	108.7	27174.	10869.6	271.7	0.	0.000	4.500	0.326
108	22.05	21.95	88.6800	5.0	0.326	0.00	2.50	108.7	27174.	10869.6	271.7	0.	0.000	4.500	0.326
109	21.95	21.85	88.6800	5.0	0.326	0.00	2.50	108.7	27174.	10869.6	271.7	0.	0.000	4.500	0.326
110	21.85	21.75	88.6800	5.0	0.326	0.00	2.50	108.7	27174.	10869.6	271.7	0.	0.000	4.500	0.326
111	21.75	21.65	88.6800	5.0	0.326	0.00	2.50	108.7	27174.	10869.6	271.7	0.	0.000	4.500	0.326
112	21.65	21.55	88.6804	5.0	0.326	0.00	2.50	108.7	27174.	10869.6	271.7	0.	0.000	4.500	0.326
TOT						0.02			190217.	76087.0					
AVG					0.326		2.50	108.7			271.7				
CUM						1.63									

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

ELEM NO.	ENDING DIST	SAT D.O. MG/L	REAER RATE 1/DA	CBOD DECAY 1/DA	CBOD SETT 1/DA	ANBOD DECAY 1/DA	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
106	22.150	7.43	0.70	0.23	0.00	0.00	4.52	4.52	0.03	0.00	0.18	0.57	0.00	0.01	0.55	0.00	0.00	0.00	0.00
107	22.050	7.42	0.70	0.23	0.00	0.00	4.54	4.54	0.03	0.00	0.18	0.57	0.00	0.01	0.55	0.00	0.00	0.00	0.00
108	21.950	7.41	0.70	0.23	0.00	0.00	4.56	4.56	0.03	0.00	0.18	0.57	0.00	0.01	0.55	0.00	0.00	0.00	0.00
109	21.850	7.39	0.70	0.23	0.00	0.00	4.58	4.58	0.03	0.00	0.18	0.58	0.00	0.01	0.56	0.00	0.00	0.00	0.00
110	21.750	7.38	0.70	0.24	0.00	0.00	4.59	4.59	0.03	0.00	0.18	0.58	0.00	0.01	0.56	0.00	0.00	0.00	0.00
111	21.650	7.37	0.70	0.24	0.00	0.00	4.60	4.60	0.03	0.00	0.19	0.59	0.00	0.01	0.57	0.00	0.00	0.00	0.00
112	21.550	7.36	0.70	0.24	0.00	0.00	4.52	4.52	0.03	0.00	0.19	0.59	0.00	0.01	0.58	0.00	0.00	0.00	0.00
20 DEG C RATE				0.14		0.00		1.20	0.02		0.10	0.26	0.00	0.00			0.00	0.00	
AVG 20 DEG C RATE			0.57		0.00					0.00									0.00

* G/SQ M/D ** MG/L/DAY

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I *	CM-II *	DO MG/L	BOD MG/L	EBOD MG/L	ORGN MG/L	NH3 MG/L	NO3+2 MG/L	TOTN MG/L	PHOS MG/L	CHL A UG/L	MACRO **	COLI #/100ML	NCM *
106	22.150	30.90	0.3	436.3	0.0	3.87	3.24	3.24	1.50	0.28	0.07	1.85	0.14	41.2	0.0	0.	0.00
107	22.050	31.00	0.3	436.3	0.0	3.87	3.24	3.24	1.50	0.28	0.07	1.85	0.14	41.2	0.0	0.	0.00
108	21.950	31.10	0.3	436.3	0.0	3.87	3.24	3.24	1.50	0.28	0.07	1.85	0.14	41.2	0.0	0.	0.00

109	21.850	31.20	0.3	436.3	0.0	3.87	3.24	3.24	1.50	0.28	0.07	1.85	0.14	41.1	0.0	0.	0.00
110	21.750	31.30	0.3	436.4	0.0	3.87	3.24	3.24	1.50	0.29	0.07	1.85	0.14	41.1	0.0	0.	0.00
111	21.650	31.40	0.3	437.7	0.0	3.90	3.25	3.25	1.49	0.29	0.07	1.85	0.14	40.9	0.0	0.	0.00
112	21.550	31.50	0.3	448.5	0.0	4.15	3.35	3.35	1.45	0.32	0.07	1.83	0.14	38.9	0.0	0.	0.00

* CM-I = cond umhos CM-II = NCM =
** G/CU M

********** ALGAE AND MACROPHYTE DATA **********

ELEM NO.	ENDING DIST	SECCHI DEPTH M	NITR PREF	ALG SETT 1/DA	ALG LIT LIM	ALG N LIM	ALG P LIM	ALG N&P LIM	ALG TOT LIM	ALG GROW 1/DA	ALG RESP 1/DA	A P/R RATIO	MAC LIT LIM	MAC N LIM	MAC P LIM	MAC N&P LIM	MAC TOT LIM	MAC GROW 1/DA	MAC RESP 1/DA	M P/R RATIO
106	22.150	0.63	0.21	0.26	.20	.54	.78	.64	.13	0.34	0.16	1.67	.00	.00	.00	.00	.00	0.00	0.00	0.00
107	22.050	0.63	0.21	0.26	.20	.54	.78	.64	.13	0.35	0.17	1.67	.00	.00	.00	.00	.00	0.00	0.00	0.00
108	21.950	0.63	0.21	0.26	.20	.54	.78	.64	.13	0.35	0.17	1.67	.00	.00	.00	.00	.00	0.00	0.00	0.00
109	21.850	0.63	0.21	0.26	.20	.54	.78	.64	.13	0.35	0.17	1.68	.00	.00	.00	.00	.00	0.00	0.00	0.00
110	21.750	0.63	0.21	0.26	.20	.55	.78	.64	.13	0.35	0.17	1.68	.00	.00	.00	.00	.00	0.00	0.00	0.00
111	21.650	0.63	0.20	0.26	.20	.55	.78	.64	.13	0.36	0.17	1.68	.00	.00	.00	.00	.00	0.00	0.00	0.00
112	21.550	0.64	0.18	0.26	.20	.56	.77	.65	.13	0.37	0.17	1.73	.00	.00	.00	.00	.00	0.00	0.00	0.00
20 DEG C RATE				0.50						1.62	0.10							0.00	0.00	

NOTE ON NITR PREF: 1.0=NO3 ; 0.0=NH3

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QUAL-TX simulation for Upper Bayou Des Allemands, LA
Adjusted Calibration

INPUT/OUTPUT LOADING SUMMARY

	FLOW CMS	DO KG/D	BOD KG/D	ORG-N KG/D	NH3-N KG/D	NO3-N KG/D	PHOS KG/D	CHL A KG/D	NCM
HEADWATER INFLOW	84.290	53309.0	27601.3	11506.6	873.9	364.1	873.9	371415.5	0.0
INCREMENTAL INFLOW	0.000	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
NON-POINT INPUT		0.0	6390.0	0.0					0.0
WASTELOADS	4.390	1589.3	1439.8	599.5	45.9	19.3	45.7	19344.1	0.0
WITHDRAWLS	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OUTFLOW THRU LOWER BNDRY	-88.680	-31791.4	-25683.9	-11086.4	-2431.4	-530.7	-1039.5	-298289.3	0.0
DISPERSION THRU LOWER BNDRY		2135.8	925.2	-373.9	238.1	-40.7	-33.1	-16758.7	0.0
REAERATION		14200.3							
BACKGROUND BENTHAL		-20341.5							
AEROBIC BOD DECAY		-10672.5	-10672.5						
BOD SETTLING		0.0	0.0						
ANAEROBIC BOD DECAY			0.0						

ORGANIC N HYDROLYSIS		0.0		-645.9	645.9				
ORGANIC N SETTLING				0.0	0.0				
NH3 DECAY		-1947.3			-449.7	449.7			
BACKGROUND NH3 SOURCE					1406.3				
DENITRIFICATION			0.0			0.0			
PHOSPHORUS SOURCE							243.3		
ALGAE PHOTOSYNTHESIS		20218.1			-812.4	-261.7	-164.3	210605.5	
ALGAE RESPIRATION		-11391.4			484.1		74.0	-94928.5	
ALGAE SETTLING		-15324.4						-191554.6	
MACRO PHOTOSYNTHESIS		0.0			0.0	0.0	0.0		
NCM DECAY		0.0							0.0
NCM SETTLING		0.0							0.0
TOTAL INPUTS	88.680	91452.6	36356.3	12106.1	3694.2	833.2	1237.0	601365.1	0.0
TOTAL OUTPUTS	-88.680	-91468.4	-36356.4	-12106.1	-3693.5	-833.1	-1236.8	-601531.1	0.0
NET CONVERGENCE ERROR	0.000	-15.9	-0.1	0.0	0.7	0.2	0.1	-166.1	0.0

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.....EXECUTION COMPLETED

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