FINAL

TMDLs for Dissolved Oxygen and Nutrients in Selected Subsegments in the Middle Terrebonne Basin, Louisiana

(120202, 120204, 120304, 120403, 120604)

Appendices H through M

Prepared for:

United States Environmental Protection Agency, Region 6
Water Quality Protection Division
Permits, Oversight, and TMDL Team
Dallas, TX 75202

Contract No. 68-C-02-108
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Prepared by:

Tetra Tech, Inc.
10306 Eaton Place, Suite 340
Fairfax, VA 22030

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APPENDIX H:
MODEL OUTPUT FOR TMDL

TMDL output file for subsegments 120202/120304/120403 1
TMDL output file for subsegment 120204 113
TMDL output file for subsegment 120604 182

TMDL output file for subsegments 120202/120304/120403

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LA-QUAL Version 8.11
Louisiana Department of Environmental Quality
Input file is D:\LA TMDL 2006\Additional\TO95\TT_Models\0608 MT\0608 MT - ICWW\TMDL\GIBB_TMDL_0608.txt
Output produced at 12:12 on 06/22/2008
$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$
CARD TYPE      CONTROL TITLES
TITLE01        LA-QUAL TMDL for Gulf ICWW and Bayou Black
TITLE02
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  NO   CONSERVATIVE MATERIAL
MODOPT04  NO   CONSERVATIVE MATERIAL II
MODOPT05  YES  DISS
MODOPT06  YES  BIOC
MODOPT07  YES  NITR
MODOPT08  NO   PHOS
MODOPT09  NO   CHLO
MODOPT10  NO   MACR
MODOPT11  NO   COLI
MODOPT12  NO   NONC
ENDATA02
$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$
CARD TYPE      DESCRIPTION OF CONSTANT                VALUE
PROGRAM        HYDRAULIC CALCULATION METHOD     =       2.00000 (widths and depths)
PROGRAM        MAXIMUM ITERATION LIMIT          =     500.00000
PROGRAM        ALGAE OXYGEN PROD                =       0.02600 mg O/ug chl a/day
PROGRAM        WIND                             =       1.30000 meters/sec
PROGRAM        TIDE  HEIGHT                     =       1.24000 meters
PROGRAM        DISPERSION EQUATION              =       1.00000 (values entered as a constant)
PROGRAM        HEADWATER EXCHANGE RATIO         =       1.00000
ENDATA03
$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$
 CARD TYPE    RATE CODE    THETA VALUE
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
ENDATA06
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$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$

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 REACH km	REACH LENGTH km	ELEMS LENGTH NUM	BEGIN PER RCH NUM	END ELEM ELEM
REACH ID	1	IC Gulf ICWW	94.00	TO	84.50	0.2500	9.50	38	1	38
REACH ID	2	IC Gulf ICWW	84.50	TO	71.50	0.2500	13.00	52	39	90
REACH ID	3	IC Gulf ICWW	71.50	TO	62.00	0.2500	9.50	38	91	128
REACH ID	4	IC Gulf ICWW	62.00	TO	38.00	0.2500	24.00	96	129	224
REACH ID	5	BB Bayou Black	45.00	TO	38.75	0.2500	6.25	25	225	249
REACH ID	6	BB Bayou Black	38.75	TO	30.00	0.2500	8.75	35	250	284
REACH ID	7	BB Bayou Black	30.00	TO	0.00	0.2500	30.00	120	285	404
REACH ID	8	IC Gulf ICWW	38.00	TO	0.00	0.2500	38.00	152	405	556

ENDATA08

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

CARD TYPE	REACH ID	WIDTH "A"	WIDTH "B"	WIDTH "C"	WIDTH "D"	DEPTH "E"	DEPTH "F"	DEPTH "N"	SLOPE	MANNINGS
HYDR-1	1 IC	0.000	0.000	182.490	0.000	0.000	9.300	0.00000	0.000	
HYDR-1	2 IC	0.000	0.000	209.060	0.000	0.000	13.350	0.00000	0.000	
HYDR-1	3 IC	0.000	0.000	395.300	0.000	0.000	12.770	0.00000	0.000	
HYDR-1	4 IC	0.000	0.000	190.000	0.000	0.000	12.190	0.00000	0.000	
HYDR-1	5 BB	0.000	0.000	196.710	0.000	0.000	4.570	0.00000	0.000	
HYDR-1	6 BB	0.000	0.000	31.170	0.000	0.000	1.160	0.00000	0.000	
HYDR-1	7 BB	0.000	0.000	31.170	0.000	0.000	1.160	0.00000	0.000	
HYDR-1	8 IC	0.000	0.000	155.800	0.000	0.000	12.800	0.00000	0.000	

ENDATA09

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

CARD TYPE	REACH ID	TIDAL RANGE	DISPERSION "A"	DISPERSION "B"	DISPERSION "C"	DISPERSION "D"
HYDR	1 IC	0.00	0.900	0.000	0.000	0.000
HYDR	2 IC	0.00	0.500	0.000	0.000	0.000
HYDR	3 IC	0.00	0.300	0.000	0.000	0.000
HYDR	4 IC	0.00	0.300	0.000	0.000	0.000
HYDR	5 BB	0.00	0.200	0.000	0.000	0.000
HYDR	6 BB	0.00	0.000	0.000	0.000	0.000
HYDR	7 BB	0.00	0.000	0.000	0.000	0.000
HYDR	8 IC	0.00	0.900	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 IC	31.20	0.00	6.70	0.10	0.00	0.00	20.00	0.00
INITIAL	2 IC	32.00	0.00	5.50	0.11	0.00	0.00	20.00	0.00
INITIAL	3 IC	32.10	0.00	5.05	0.12	0.00	0.00	20.00	0.00
INITIAL	4 IC	32.30	0.00	4.60	0.13	0.00	0.00	20.00	0.00
INITIAL	5 BB	32.10	0.00	5.70	0.10	0.00	0.00	25.00	0.00
INITIAL	6 BB	32.00	0.00	6.08	0.10	0.00	0.00	25.00	0.00
INITIAL	7 BB	32.00	0.00	6.08	0.10	0.00	0.00	50.00	0.00
INITIAL	8 IC	31.90	0.00	4.30	0.14	0.00	0.00	24.00	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"	BOD ANAER BKGRND SOD	BOD DECAY	BOD SETT	CONV TO BOD	BOD2 DECAY	BOD2 ANAER DECAY	BOD2 SETT	CONV TO BOD	BOD2 DECAY
					g/m²/d	per day	m/d		per day	per day	m/d				
COEFF-1	1	IC	21 YU	0.000	0.000	0.000	1.000	0.150	0.000	1.000	0.000	0.000	0.000	0.000	0.000
COEFF-1	2	IC	21 YU	0.000	0.000	0.000	0.500	0.150	0.000	1.000	0.000	0.000	0.000	0.000	0.000
COEFF-1	3	IC	21 YU	0.000	0.000	0.000	1.800	0.150	0.000	1.000	0.000	0.000	0.000	0.000	0.000
COEFF-1	4	IC	21 YU	0.000	0.000	0.000	2.150	0.150	0.000	1.000	0.000	0.000	0.000	0.000	0.000
COEFF-1	5	BB	21 YU	0.000	0.000	0.000	0.400	0.150	0.000	1.000	0.000	0.000	0.000	0.000	0.000
COEFF-1	6	BB	21 YU	0.000	0.000	0.000	0.700	0.150	0.000	1.000	0.000	0.000	0.000	0.000	0.000
COEFF-1	7	BB	21 YU	0.000	0.000	0.000	1.300	0.170	0.000	1.000	0.000	0.000	0.000	0.000	0.000
COEFF-1	8	IC	21 YU	0.000	0.000	0.000	0.400	0.150	0.000	1.000	0.000	0.000	0.000	0.000	0.000

ENDATA12
$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$

CARD TYPE	REACH NUM	ID	ORG-N DECA	ORG-N SETT	ORGN CONV TO NH3	NH3 SRCE	NH3 DECA	PHOS SRCE	DENIT SRCE	RATE
COEFF-2	1	IC	0.020	0.000	1.000	0.130	0.000	0.000	0.000	
COEFF-2	2	IC	0.020	0.000	1.000	0.130	0.000	0.000	0.000	
COEFF-2	3	IC	0.020	0.000	1.000	0.130	0.000	0.000	0.000	
COEFF-2	4	IC	0.020	0.000	1.000	0.130	0.000	0.000	0.000	
COEFF-2	5	BB	0.020	0.000	1.000	0.200	0.000	0.000	0.000	
COEFF-2	6	BB	0.020	0.000	1.000	0.200	0.000	0.000	0.000	
COEFF-2	7	BB	0.020	0.000	1.000	0.200	0.000	0.000	0.000	
COEFF-2	8	IC	0.020	0.000	1.000	0.130	0.000	0.000	0.000	

ENDATA13
$$$ DATA TYPE 14 (ALGAE AND MACROPHYTE COEFFICIENTS) $$$

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

ENDATA14
$$$ DATA TYPE 15 (COLIFORM AND NONCONSERVATIVE COEFFICIENTS) $$$

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

ENDATA15
$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE	REACH NUM	ID	OUTFLOW	INFLOW	TEMP	SALIN	CM-I	CM-II	IN/DIST	OUT/DIST
INCR-1	1	IC	0.00000	1.00000	30.00	0.00	0.00	0.00	0.10526	0.00000
INCR-1	2	IC	0.00000	0.85500	30.00	0.00	0.00	0.00	0.06577	0.00000
INCR-1	3	IC	0.00000	0.62500	30.00	0.00	0.00	0.00	0.06579	0.00000
INCR-1	4	IC	0.00000	1.57800	30.00	0.00	0.00	0.00	0.06575	0.00000
INCR-1	5	BB	0.00000	0.10000	30.00	0.00	0.00	0.00	0.01600	0.00000
INCR-1	6	BB	0.00000	0.10000	30.00	0.00	0.00	0.00	0.01143	0.00000
INCR-1	7	BB	0.00000	0.17200	30.00	0.00	0.00	0.00	0.00573	0.00000
INCR-1	8	IC	0.00000	3.25600	30.00	0.00	0.00	0.00	0.08568	0.00000

ENDATA16
$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE	REACH NUM	ID	DO	BOD	ORG-N	NH3-N	NO3-N	BOD#2
INCR-2	1	IC	7.22	6.67	1.40	0.10	0.00	0.00
INCR-2	2	IC	7.22	3.00	1.40	0.10	0.00	0.00

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INCR-2          3  IC      7.22     6.67     1.40     0.10     0.00     0.00
INCR-2          4  IC      7.22     6.67     1.40     0.10     0.00     0.00
INCR-2          5  BB       5.00     3.70     1.10     0.10     0.00     0.00
INCR-2          6  BB       5.00     3.70     1.10     0.10     0.00     0.00
INCR-2          7  BB       5.00     3.70     1.10     0.10     0.00     0.00
INCR-2          8  IC      7.22     4.67     1.40     0.10     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
ENDATA18
$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$
CARD TYPE      REACH  ID      BOD#1     ORG-N      COLI       NCM       DO     BOD#2
NONPOINT         1   IC    9000.00    520.00      0.00      0.00      0.00      0.00
NONPOINT         2   IC   22000.00    600.00      0.00      0.00      0.00      0.00
NONPOINT         3   IC   27400.00    850.00      0.00      0.00      0.00      0.00
NONPOINT         4   IC   33000.00   1400.00      0.00      0.00      0.00      0.00
NONPOINT         5   BB     211.00      4.00      0.00      0.00      0.00      0.00
NONPOINT         6   BB     600.00     20.00      0.00      0.00      0.00      0.00
NONPOINT         7   BB    1050.00     20.00      0.00      0.00      0.00      0.00
NONPOINT         8   IC   63000.00   1300.00      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     FLOW    TEMP    SALIN     CM-I     CM-II
                                        m³/s      cfs   deg C      ppt
HDWTR-1          1    ICWW                0   0.65100   22.987   30.60     0.00     0.000     0.000   0.00
HDWTR-1        225    Bayou Black         0   4.58300  161.829   30.70     0.00     0.000     0.000   0.00
ENDATA20
$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$
CARD TYPE    ELEMENT  NAME                   DO     BOD#1     ORG-N     NH3-N     NO3-N     BOD#2
                                          mg/L      mg/L      mg/L      mg/L      mg/L      mg/L
HDWTR-2          1    ICWW                6.70      3.70      1.30      0.10      0.00      0.00
HDWTR-2        225    Bayou Black         5.00      4.00      1.41      0.30      0.00      0.00
ENDATA21
$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
CARD TYPE    ELEMENT  NAME                 PHOS     CHL A      COLI       NCM
                                          mg/L      mg/L      mg/L      mg/L
ENDATA22
$$$ DATA TYPE 23 (JUNCTION DATA) $$$
CARD TYPE   JUNCTION  UPSTRM    RIVER     NAME
          ELEMENT  ELEMENT    KILOM
JUNCTION       405    224     38.00    ICWW and Bayou Black
ENDATA23
$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$
CARD TYPE  ELEMENT    RKILO  NAME                FLOW      FLOW     FLOW    TEMP    SALIN     CM-I     CM-II
                                                 m³/s       cfs      MGD   deg C      ppt
WSTLD-1       39     84.50  Bayou Boeuff        48.61291 1716.55762 1109.604   30.00     0.00     0.000     0.000
WSTLD-1       57     80.00  Bayou Chene        -61.60840-2175.43774-1406.230   30.00     0.00     0.000     0.000
WSTLD-1       89     72.00  Unnamed Canal        1.65157   58.31815   37.698   30.00     0.00     0.000     0.000
WSTLD-1      117     65.00  Copasaw Canal        5.40773  190.95093  123.433   30.00     0.00     0.000     0.000
WSTLD-1      181     49.00  Minors Canal South   2.48208   87.64407   56.654   30.00     0.00     0.000     0.000
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WSTLD-1   181   49.00 Minors Canal North   -0.25953  -9.16420  -5.924  30.00   0.00   0.000   0.000
WSTLD-1   221   39.00 Houma Nav. Can.      -14.93970 -527.53180 -341.003 30.00   0.00   0.000   0.000
WSTLD-1   223   38.50 PS ICWW#1            0.00003   0.00106   0.001  30.00   0.00   0.000   0.000
WSTLD-1   260   36.25 LAG531469            0.00018   0.00636   0.004  30.00   0.00   0.000   0.000
WSTLD-1   268   34.25 LAG540726            0.00005   0.00177   0.001  30.00   0.00   0.000   0.000
WSTLD-1   278   31.75 PS Black Bayou#1     0.00187   0.06603   0.043  30.00   0.00   0.000   0.000
WSTLD-1   292   28.25 PS Black Bayou#2     0.00240   0.08475   0.055  30.00   0.00   0.000   0.000
WSTLD-1   312   23.25 LAG541223            0.00088   0.03107   0.020  30.00   0.00   0.000   0.000
WSTLD-1   331   18.50 PS Black Bayou#3     0.00023   0.00812   0.005  30.00   0.00   0.000   0.000
WSTLD-1   339   16.50 LAG541317            0.00053   0.01871   0.012  30.00   0.00   0.000   0.000
WSTLD-1   352   13.25 LA0111236            0.01770   0.62500   0.404  30.00   0.00   0.000   0.000
WSTLD-1   369    9.00 PS Hanson Canal      0.00160   0.05650   0.037  30.00   0.00   0.000   0.000
WSTLD-1   372    8.25 LA0074331            0.00002   0.00071   0.000  30.00   0.00   0.000   0.000
WSTLD-1   373    8.00 Minors Canal         0.24066   8.49788   5.493  30.00   0.00   0.000   0.000
WSTLD-1   401    1.00 Little Bayou Black   0.50019   17.66208  11.417 30.00   0.00   0.000   0.000
WSTLD-1   402    0.75 PS Lil Bayou Black   0.00049   0.01730   0.011  30.00   0.00   0.000   0.000
WSTLD-1   413   36.00 Bayou Terrebonne W.  0.47188   16.66243  10.771 30.00   0.00   0.000   0.000
WSTLD-1   413   36.00 Bayou Terrebonne E.  -0.59268  -20.92797 -13.528 30.00   0.00   0.000   0.000
WSTLD-1   417   35.00 LA0111376            0.00002   0.00071   0.000  30.00   0.00   0.000   0.000
WSTLD-1   461   24.00 LA0104868            0.00006   0.00212   0.001  30.00   0.00   0.000   0.000
WSTLD-1   467   22.50 LA0089648            0.00430   0.15184   0.098  30.00   0.00   0.000   0.000
WSTLD-1   469   22.00 Company Canal North  3.60515  127.30050  82.289 30.00   0.00   0.000   0.000
WSTLD-1   469   22.00 Company Canal South  -1.72707  -60.98411 -39.421 30.00   0.00   0.000   0.000
WSTLD-1   493   16.00 St Louis Canal       0.15100   5.33192   3.447  30.00   0.00   0.000   0.000
WSTLD-1   525    8.00 Bayou Bleu North     0.52662   18.59534  12.020 30.00   0.00   0.000   0.000
WSTLD-1   541    4.00 Bayou Bleu South     -1.41564  -49.98729 -32.312 30.00   0.00   0.000   0.000
WSTLD-1   549    2.00 PS ICWW#2            0.00005   0.00177   0.001  30.00   0.00   0.000   0.000
ENDATA24
$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                          % BOD              %
CARD TYPE   ELEMENT  NAME                  DO     BOD    RMVL    ORG-N   NH3-N   NITRIF   NO3-N   BOD#2
                                          mg/L   mg/L   mg/L    mg/L    mg/L
WSTLD-2      39      Bayou Boeuff          5.00   3.70   0.00    1.60    0.10    0.00     0.00
WSTLD-2      57      Bayou Chene           0.00   0.00   0.00    0.00    0.00    0.00     0.00
WSTLD-2      89      Unnamed Canal         6.60   6.20   0.00    1.40    0.10    0.00     0.00    0.00
WSTLD-2     117      Copasaw Canal         6.60   6.20   0.00    1.40    0.10    0.00     0.00    0.00
WSTLD-2     181      Minors Canal South    10.40  7.20   0.00    1.40    0.10    0.00     0.00    0.00
WSTLD-2     181      Minors Canal North    0.00   0.00   0.00    0.00    0.00    0.00     0.00    0.00
WSTLD-2     221      Houma Nav. Can.       0.00   0.00   0.00    0.00    0.00    0.00     0.00    0.00
WSTLD-2     223      PS ICWW#1             5.00   103.50 0.00    7.50    15.00   0.00     2.00    0.00
WSTLD-2     260      LAG531469             5.00   103.50 0.00    7.50    15.00   0.00     2.00    0.00
WSTLD-2     268      LAG540726             5.00   69.00  0.00    5.00    10.00   0.00     2.00    0.00
WSTLD-2     278      PS Black Bayou#1      5.00   56.90  0.00    4.12    8.24    0.00     2.00    0.00
WSTLD-2     292      PS Black Bayou#2      5.00   52.70  0.00    3.82    7.63    0.00     2.00    0.00
WSTLD-2     312      LAG541223             5.00   69.00  0.00    5.00    10.00   0.00     2.00    0.00
WSTLD-2     331      PS Black Bayou#3      5.00   103.50 0.00    7.50    15.00   0.00     2.00    0.00
WSTLD-2     339      LAG541317             5.00   69.00  0.00    5.00    10.00   0.00     2.00    0.00
WSTLD-2     352      LA0111236             5.00   57.50  0.00    4.17    20.00   0.00     2.00    0.00
WSTLD-2     369      PS Hanson Canal       5.00   25.40  0.00    1.84    3.67    0.00     2.00    0.00
WSTLD-2     372      LA0074331             5.00   103.50 0.00    7.50    15.00   0.00     2.00    0.00
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WSTLD-2     373   Minors Canal          10.40    7.20    0.00    1.40    0.10    0.00    0.00    0.00
WSTLD-2     401   Little Bayou Black     5.00    9.40    0.00    1.63    0.14    0.00    0.00    0.00
WSTLD-2     402   PS Lil Bayou Black     5.00  103.50    0.00    7.50   15.00    0.00    2.00    0.00
WSTLD-2     413   Bayou Terrebonne W.    5.00    9.40    0.00    1.63    0.14    0.00    0.00    0.00
WSTLD-2     413   Bayou Terrebonne E.    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
WSTLD-2     417   LA0111376              5.00  103.50    0.00    7.50   15.00    0.00    2.00    0.00
WSTLD-2     461   LA0104868              5.00  103.50    0.00    7.50   15.00    0.00    2.00    0.00
WSTLD-2     467   LA0089648              5.00   70.80    0.00    5.13   10.27    0.00    2.00    0.00
WSTLD-2     469   Company Canal North    5.00    9.80    0.00    1.34    0.10    0.00    0.00    0.00
WSTLD-2     469   Company Canal South    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
WSTLD-2     493   St Louis Canal         5.00    8.70    0.00    0.90    0.10    0.00    0.00    0.00
WSTLD-2     525   Bayou Bleu North       5.00    8.70    0.00    0.90    0.10    0.00    0.00    0.00
WSTLD-2     541   Bayou Bleu South       0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
WSTLD-2     549   PS ICWW#2              5.00  103.50    0.00    7.50   15.00    0.00    2.00    0.00
ENDATA25
$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
CARD TYPE    ELEMENT   NAME                  PHOS    CHL A     COLI      NCM
                                             mg/L     mg/L     mg/L     mg/L
ENDATA26
$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$
CARD TYPE    CONSTITUENT                CONCENTRATION
LOWER BC     TEMPERATURE                    32.100    deg C
LOWER BC     SALINITY                    0.000    ppt
LOWER BC     CONSERVATIVE MATERIAL I          0.000
LOWER BC     CONSERVATIVE MATERIAL II         0.000
LOWER BC     DISSOLVED OXYGEN               5.000    mg/L
LOWER BC     BIOCHEMICAL OXYGEN DEMAND          3.800    mg/L
LOWER BC     ORGANIC NITROGEN               0.000    mg/L
LOWER BC     AMMONIA NITROGEN               0.150    mg/L
LOWER BC     NITRATE + NITRITE              0.270    mg/L
LOWER BC     PHOSPHORUS                     0.000    mg/L
LOWER BC     CHLOROPHYLL A                  21.000    µg/L
LOWER BC     COLIFORM                    0.000    #/100 mL
LOWER BC     NONCONSERVATIVE MATERIAL         0.000
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 =  2
NUMBER OF REACHES IN PLOT 1 =  5
PLOT RCH  1  2  3  4  8
NUMBER OF REACHES IN PLOT 2 =  3
PLOT RCH  5  6  7
ENDATA30
$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 GIWW_TMDL.ovl              :GIWW (subs 120403 and 120304)
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OVERLAY 2 Black_TMDL.ovl :Bayou Black (Sub 120202)
ENDATA31
.....NO ERRORS DETECTED IN INPUT DATA
.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 7 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING: NEGATIVE CONCENTRATIONS SET TO ZERO FOR Nitrate+Nitrite Nitrogen
.....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
.....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12
INTERMEDIATE REPORT
Dissolved Oxygen LA-QUAL TMDL for Gulf ICWW and Bayou Black
mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	6.47	6.47	6.49	6.51	6.53	6.55	6.58	6.59	6.61	6.63
IC	1	11	6.64	6.65	6.66	6.67	6.68	6.69	6.69	6.70	6.70	6.71
IC	1	21	6.71	6.71	6.71	6.71	6.71	6.70	6.70	6.68	6.66	6.64
IC	1	31	6.60	6.54	6.46	6.35	6.20	6.00	5.75	5.43		
IC	2	39	5.05	5.04	5.03	5.02	5.02	5.01	5.01	5.01	5.01	5.02
IC	2	49	5.02	5.02	5.03	5.04	5.04	5.05	5.07	5.13	5.66	7.45
IC	2	59	8.02	8.18	8.21	8.19	8.15	8.11	8.06	8.01	7.96	7.91
IC	2	69	7.85	7.79	7.73	7.67	7.61	7.54	7.47	7.40	7.32	7.25
IC	2	79	7.17	7.09	7.00	6.92	6.83	6.75	6.66	6.58	6.50	6.42
IC	2	89	6.34	6.24								
IC	3	91	6.10	6.05	6.01	5.98	5.94	5.91	5.87	5.83	5.79	5.74
IC	3	101	5.69	5.64	5.58	5.52	5.46	5.39	5.32	5.26	5.19	5.13
IC	3	111	5.07	5.03	5.02	5.03	5.10	5.25	5.51	5.54	5.71	5.85
IC	3	121	5.93	5.95	5.94	5.89	5.81	5.70	5.58	5.43		
IC	4	129	5.22	5.07	5.02	5.01	5.02	5.03	5.05	5.07	5.09	5.11
IC	4	139	5.14	5.16	5.18	5.20	5.22	5.24	5.26	5.28	5.30	5.32
IC	4	149	5.34	5.36	5.38	5.40	5.41	5.43	5.45	5.46	5.48	5.49
IC	4	159	5.50	5.51	5.52	5.53	5.54	5.54	5.55	5.55	5.55	5.54
IC	4	169	5.53	5.52	5.51	5.50	5.49	5.48	5.48	5.51	5.56	5.69
IC	4	179	5.93	6.35	7.08	6.22	5.89	5.81	5.83	5.88	5.95	6.02
IC	4	189	6.08	6.14	6.19	6.24	6.28	6.32	6.35	6.39	6.42	6.45
IC	4	199	6.48	6.50	6.53	6.56	6.58	6.61	6.64	6.66	6.69	6.71
IC	4	209	6.73	6.76	6.78	6.80	6.82	6.84	6.85	6.85	6.83	6.79
IC	4	219	6.72	6.62	6.57	6.59	6.66	6.73				
IC	8	405	6.82	7.30	7.50	7.59	7.62	7.63	7.62	7.62	7.62	7.71
IC	8	415	7.74	7.75	7.73	7.71	7.69	7.66	7.63	7.60	7.57	7.54
IC	8	425	7.51	7.47	7.44	7.40	7.36	7.32	7.28	7.24	7.20	7.16
IC	8	435	7.11	7.06	7.01	6.96	6.91	6.86	6.80	6.75	6.69	6.63
IC	8	445	6.57	6.50	6.44	6.37	6.30	6.23	6.16	6.09	6.02	5.95
IC	8	455	5.87	5.81	5.74	5.67	5.62	5.57	5.52	5.49	5.48	5.48
IC	8	465	5.50	5.56	5.65	5.78	5.96	6.53	6.93	7.19	7.36	7.45
IC	8	475	7.50	7.52	7.53	7.53	7.52	7.51	7.50	7.48	7.47	7.45
IC	8	485	7.43	7.42	7.40	7.39	7.37	7.36	7.35	7.34	7.34	7.37
IC	8	495	7.38	7.39	7.39	7.38	7.37	7.36	7.35	7.33	7.31	7.29
IC	8	505	7.28	7.26	7.24	7.21	7.19	7.17	7.14	7.11	7.08	7.06
IC	8	515	7.03	6.99	6.96	6.93	6.90	6.87	6.84	6.82	6.81	6.80

IC	8	525	6.82	6.94	7.04	7.10	7.14	7.15	7.15	7.14	7.12	7.08
IC	8	535	7.04	7.00	6.94	6.87	6.80	6.72	6.62	6.53	6.43	6.33
IC	8	545	6.23	6.12	6.00	5.87	5.74	5.61	5.48	5.35	5.23	5.12
IC	8	555	5.04	5.00								
BB	5	225	5.03	5.13	5.29	5.50	5.74	5.99	6.26	6.54	6.82	7.10
BB	5	235	7.37	7.63	7.88	8.12	8.35	8.57	8.78	8.97	9.16	9.33
BB	5	245	9.49	9.64	9.78	9.91	10.01					
BB	6	250	9.96	9.91	9.85	9.80	9.75	9.71	9.66	9.61	9.57	9.53
BB	6	260	9.49	9.44	9.41	9.37	9.33	9.29	9.26	9.23	9.19	9.16
BB	6	270	9.13	9.10	9.07	9.05	9.02	8.99	8.97	8.95	8.92	8.90
BB	6	280	8.88	8.86	8.84	8.82	8.80					
BB	7	285	8.76	8.72	8.68	8.64	8.60	8.56	8.52	8.48	8.44	8.40
BB	7	295	8.37	8.33	8.29	8.25	8.22	8.18	8.15	8.11	8.08	8.04
BB	7	305	8.01	7.97	7.94	7.91	7.87	7.84	7.81	7.77	7.74	7.71
BB	7	315	7.68	7.65	7.61	7.58	7.55	7.52	7.49	7.46	7.43	7.40
BB	7	325	7.38	7.35	7.32	7.29	7.26	7.23	7.20	7.18	7.15	7.12
BB	7	335	7.10	7.07	7.04	7.02	6.99	6.96	6.94	6.91	6.89	6.86
BB	7	345	6.83	6.81	6.79	6.76	6.74	6.71	6.69	6.65	6.63	6.60
BB	7	355	6.57	6.54	6.52	6.49	6.46	6.44	6.41	6.39	6.36	6.34
BB	7	365	6.31	6.29	6.26	6.24	6.21	6.19	6.17	6.14	6.31	6.29
BB	7	375	6.26	6.23	6.21	6.18	6.16	6.13	6.11	6.08	6.06	6.03
BB	7	385	6.01	5.99	5.96	5.94	5.92	5.89	5.87	5.85	5.82	5.80
BB	7	395	5.78	5.76	5.73	5.71	5.69	5.67	5.59	5.57	5.54	5.52

INTERMEDIATE REPORT

Effective BOD — LA-QUAL TMDL for Gulf ICWW and Bayou Black

mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	2.55	2.47	2.42	2.38	2.36	2.34	2.33	2.32	2.31	2.30
IC	1	11	2.30	2.30	2.29	2.29	2.29	2.29	2.28	2.28	2.28	2.28
IC	1	21	2.27	2.27	2.27	2.27	2.27	2.26	2.26	2.26	2.26	2.26
IC	1	31	2.27	2.28	2.29	2.33	2.38	2.48	2.66	2.97		
IC	2	39	3.55	3.50	3.46	3.41	3.37	3.33	3.29	3.25	3.21	3.18
IC	2	49	3.14	3.11	3.08	3.05	3.02	2.99	2.96	2.93	2.81	2.47
IC	2	59	2.37	2.34	2.34	2.33	2.33	2.33	2.33	2.34	2.34	2.34
IC	2	69	2.34	2.34	2.34	2.35	2.35	2.36	2.36	2.37	2.37	2.38
IC	2	79	2.39	2.40	2.42	2.44	2.46	2.48	2.51	2.55	2.59	2.63
IC	2	89	2.69	2.37								
IC	3	91	2.25	2.22	2.21	2.20	2.20	2.20	2.20	2.20	2.20	2.20
IC	3	101	2.21	2.21	2.21	2.22	2.22	2.23	2.25	2.27	2.29	2.33
IC	3	111	2.38	2.45	2.55	2.69	2.88	3.14	3.51	2.71	2.39	2.27
IC	3	121	2.22	2.20	2.19	2.19	2.19	2.20	2.21	2.23		
IC	4	129	2.26	2.28	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.30
IC	4	139	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
IC	4	149	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
IC	4	159	2.30	2.30	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31
IC	4	169	2.32	2.32	2.33	2.34	2.36	2.38	2.43	2.49	2.60	2.76
IC	4	179	3.03	3.45	4.12	3.20	2.75	2.53	2.42	2.37	2.34	2.33
IC	4	189	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
IC	4	199	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.33
IC	4	209	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.34	2.35	2.37

IC	4	219	2.43	2.57	2.90	3.04	3.13	3.23				
IC	8	405	3.33	3.32	3.33	3.34	3.36	3.38	3.40	3.43	3.47	3.32
IC	8	415	3.27	3.24	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23
IC	8	425	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23
IC	8	435	3.23	3.23	3.23	3.23	3.23	3.24	3.24	3.24	3.25	3.25
IC	8	445	3.25	3.26	3.27	3.28	3.29	3.30	3.31	3.33	3.35	3.37
IC	8	455	3.40	3.43	3.47	3.51	3.57	3.63	3.71	3.79	3.90	4.03
IC	8	465	4.18	4.36	4.57	4.80	5.09	4.11	3.64	3.42	3.31	3.26
IC	8	475	3.24	3.23	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.23
IC	8	485	3.23	3.23	3.24	3.24	3.25	3.26	3.27	3.29	3.30	3.26
IC	8	495	3.23	3.22	3.22	3.21	3.21	3.21	3.21	3.21	3.21	3.21
IC	8	505	3.21	3.21	3.21	3.21	3.22	3.22	3.22	3.22	3.23	3.23
IC	8	515	3.24	3.24	3.25	3.27	3.28	3.30	3.33	3.37	3.41	3.47
IC	8	525	3.54	3.38	3.30	3.26	3.23	3.22	3.21	3.21	3.21	3.21
IC	8	535	3.21	3.21	3.21	3.21	3.21	3.21	3.22	3.22	3.22	3.23
IC	8	545	3.24	3.25	3.26	3.28	3.30	3.32	3.35	3.39	3.45	3.52
IC	8	555	3.60	3.71								
BB	5	225	3.44	3.03	2.66	2.34	2.07	1.83	1.61	1.43	1.27	1.13
BB	5	235	1.01	0.90	0.81	0.73	0.66	0.59	0.54	0.49	0.45	0.42
BB	5	245	0.38	0.36	0.33	0.31	0.30					
BB	6	250	0.34	0.38	0.42	0.46	0.50	0.55	0.59	0.63	0.67	0.71
BB	6	260	0.75	0.79	0.83	0.87	0.91	0.94	0.98	1.02	1.06	1.09
BB	6	270	1.13	1.17	1.20	1.24	1.28	1.31	1.35	1.38	1.44	1.47
BB	6	280	1.51	1.54	1.58	1.61	1.64					
BB	7	285	1.65	1.67	1.68	1.69	1.70	1.71	1.72	1.76	1.77	1.78
BB	7	295	1.79	1.80	1.81	1.82	1.83	1.84	1.85	1.86	1.87	1.87
BB	7	305	1.88	1.89	1.90	1.91	1.92	1.93	1.94	1.96	1.97	1.98
BB	7	315	1.99	2.00	2.01	2.01	2.02	2.03	2.04	2.05	2.06	2.06
BB	7	325	2.07	2.08	2.09	2.10	2.10	2.11	2.13	2.13	2.14	2.15
BB	7	335	2.16	2.16	2.17	2.18	2.19	2.20	2.21	2.21	2.22	2.23
BB	7	345	2.24	2.24	2.25	2.26	2.26	2.27	2.28	2.48	2.49	2.49
BB	7	355	2.50	2.50	2.51	2.51	2.52	2.52	2.53	2.53	2.54	2.54
BB	7	365	2.55	2.55	2.56	2.56	2.58	2.58	2.59	2.59	2.81	2.81
BB	7	375	2.82	2.82	2.82	2.82	2.83	2.83	2.83	2.84	2.84	2.84
BB	7	385	2.84	2.85	2.85	2.85	2.86	2.86	2.86	2.86	2.87	2.87
BB	7	395	2.87	2.88	2.88	2.88	2.88	2.89	3.46	3.46	3.46	3.46

INTERMEDIATE REPORT

Biochemical Oxygen Demand LA-QUAL TMDL for Gulf ICWW and Bayou Black

mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	2.55	2.47	2.42	2.38	2.36	2.34	2.33	2.32	2.31	2.30
IC	1	11	2.30	2.30	2.29	2.29	2.29	2.29	2.28	2.28	2.28	2.28
IC	1	21	2.27	2.27	2.27	2.27	2.27	2.26	2.26	2.26	2.26	2.26
IC	1	31	2.27	2.28	2.29	2.33	2.38	2.48	2.66	2.97		
IC	2	39	3.55	3.50	3.46	3.41	3.37	3.33	3.29	3.25	3.21	3.18
IC	2	49	3.14	3.11	3.08	3.05	3.02	2.99	2.96	2.93	2.81	2.47
IC	2	59	2.37	2.34	2.34	2.33	2.33	2.33	2.33	2.34	2.34	2.34
IC	2	69	2.34	2.34	2.34	2.35	2.35	2.36	2.36	2.37	2.37	2.38
IC	2	79	2.39	2.40	2.42	2.44	2.46	2.48	2.51	2.55	2.59	2.63
IC	2	89	2.69	2.37								

IC	3	91	2.25	2.22	2.21	2.20	2.20	2.20	2.20	2.20	2.20	2.20
IC	3	101	2.21	2.21	2.21	2.22	2.22	2.23	2.25	2.27	2.29	2.33
IC	3	111	2.38	2.45	2.55	2.69	2.88	3.14	3.51	2.71	2.39	2.27
IC	3	121	2.22	2.20	2.19	2.19	2.19	2.20	2.21	2.23		
IC	4	129	2.26	2.28	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.30
IC	4	139	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
IC	4	149	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
IC	4	159	2.30	2.30	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31
IC	4	169	2.32	2.32	2.33	2.34	2.36	2.38	2.43	2.49	2.60	2.76
IC	4	179	3.03	3.45	4.12	3.20	2.75	2.53	2.42	2.37	2.34	2.33
IC	4	189	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
IC	4	199	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.33
IC	4	209	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.34	2.35	2.37
IC	4	219	2.43	2.57	2.90	3.04	3.13	3.23				
IC	8	405	3.33	3.32	3.33	3.34	3.36	3.38	3.40	3.43	3.47	3.32
IC	8	415	3.27	3.24	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23
IC	8	425	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23
IC	8	435	3.23	3.23	3.23	3.23	3.23	3.24	3.24	3.24	3.25	3.25
IC	8	445	3.25	3.26	3.27	3.28	3.29	3.30	3.31	3.33	3.35	3.37
IC	8	455	3.40	3.43	3.47	3.51	3.57	3.63	3.71	3.79	3.90	4.03
IC	8	465	4.18	4.36	4.57	4.80	5.09	4.11	3.64	3.42	3.31	3.26
IC	8	475	3.24	3.23	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.23
IC	8	485	3.23	3.23	3.24	3.24	3.25	3.26	3.27	3.29	3.30	3.26
IC	8	495	3.23	3.22	3.22	3.21	3.21	3.21	3.21	3.21	3.21	3.21
IC	8	505	3.21	3.21	3.21	3.21	3.22	3.22	3.22	3.22	3.23	3.23
IC	8	515	3.24	3.24	3.25	3.27	3.28	3.30	3.33	3.37	3.41	3.47
IC	8	525	3.54	3.38	3.30	3.26	3.23	3.22	3.21	3.21	3.21	3.21
IC	8	535	3.21	3.21	3.21	3.21	3.21	3.21	3.22	3.22	3.22	3.23
IC	8	545	3.24	3.25	3.26	3.28	3.30	3.32	3.35	3.39	3.45	3.52
IC	8	555	3.60	3.71								
BB	5	225	3.44	3.03	2.66	2.34	2.07	1.83	1.61	1.43	1.27	1.13
BB	5	235	1.01	0.90	0.81	0.73	0.66	0.59	0.54	0.49	0.45	0.42
BB	5	245	0.38	0.36	0.33	0.31	0.30					
BB	6	250	0.34	0.38	0.42	0.46	0.50	0.55	0.59	0.63	0.67	0.71
BB	6	260	0.75	0.79	0.83	0.87	0.91	0.94	0.98	1.02	1.06	1.09
BB	6	270	1.13	1.17	1.20	1.24	1.28	1.31	1.35	1.38	1.44	1.47
BB	6	280	1.51	1.54	1.58	1.61	1.64					
BB	7	285	1.65	1.67	1.68	1.69	1.70	1.71	1.72	1.76	1.77	1.78
BB	7	295	1.79	1.80	1.81	1.82	1.83	1.84	1.85	1.86	1.87	1.87
BB	7	305	1.88	1.89	1.90	1.91	1.92	1.93	1.94	1.96	1.97	1.98
BB	7	315	1.99	2.00	2.01	2.01	2.02	2.03	2.04	2.05	2.06	2.06
BB	7	325	2.07	2.08	2.09	2.10	2.10	2.11	2.13	2.13	2.14	2.15
BB	7	335	2.16	2.16	2.17	2.18	2.19	2.20	2.21	2.21	2.22	2.23
BB	7	345	2.24	2.24	2.25	2.26	2.26	2.27	2.28	2.48	2.49	2.49
BB	7	355	2.50	2.50	2.51	2.51	2.52	2.52	2.53	2.53	2.54	2.54
BB	7	365	2.55	2.55	2.56	2.56	2.58	2.58	2.59	2.59	2.81	2.81
BB	7	375	2.82	2.82	2.82	2.82	2.83	2.83	2.83	2.84	2.84	2.84
BB	7	385	2.84	2.85	2.85	2.85	2.86	2.86	2.86	2.86	2.87	2.87
BB	7	395	2.87	2.88	2.88	2.88	2.88	2.89	3.46	3.46	3.46	3.46

Organic Nitrogen — LA-QUAL TMDL for Gulf ICWW and Bayou Black

mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	1.30	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
IC	1	11	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31
IC	1	21	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.32	1.32
IC	1	31	1.33	1.34	1.35	1.36	1.39	1.41	1.45	1.51		
IC	2	39	1.58	1.58	1.58	1.57	1.57	1.56	1.56	1.56	1.55	1.55
IC	2	49	1.55	1.54	1.54	1.54	1.53	1.53	1.52	1.51	1.39	1.02
IC	2	59	0.89	0.86	0.84	0.84	0.84	0.85	0.85	0.85	0.85	0.86
IC	2	69	0.86	0.86	0.87	0.87	0.87	0.88	0.88	0.88	0.89	0.89
IC	2	79	0.89	0.90	0.90	0.91	0.91	0.92	0.92	0.92	0.93	0.93
IC	2	89	0.94	0.89								
IC	3	91	0.87	0.87	0.88	0.88	0.89	0.89	0.90	0.91	0.92	0.92
IC	3	101	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.01	1.02	1.03
IC	3	111	1.04	1.06	1.07	1.09	1.10	1.12	1.14	1.01	0.94	0.90
IC	3	121	0.88	0.88	0.88	0.89	0.90	0.91	0.93	0.96		
IC	4	129	0.99	1.01	1.02	1.03	1.03	1.03	1.03	1.04	1.04	1.04
IC	4	139	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.05
IC	4	149	1.05	1.05	1.05	1.06	1.06	1.06	1.06	1.07	1.07	1.07
IC	4	159	1.08	1.08	1.08	1.09	1.09	1.10	1.10	1.11	1.12	1.12
IC	4	169	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.21	1.22	1.24
IC	4	179	1.26	1.28	1.30	1.25	1.21	1.18	1.15	1.13	1.11	1.10
IC	4	189	1.08	1.08	1.07	1.06	1.06	1.05	1.05	1.04	1.04	1.04
IC	4	199	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03
IC	4	209	1.03	1.03	1.03	1.03	1.03	1.03	1.02	1.02	1.02	1.01
IC	4	219	1.00	0.99	0.97	0.96	0.96	0.96				
IC	8	405	0.96	0.91	0.88	0.87	0.87	0.87	0.87	0.87	0.88	0.85
IC	8	415	0.85	0.84	0.84	0.84	0.84	0.84	0.84	0.85	0.85	0.85
IC	8	425	0.85	0.85	0.85	0.86	0.86	0.86	0.86	0.86	0.87	0.87
IC	8	435	0.87	0.87	0.87	0.88	0.88	0.88	0.88	0.89	0.89	0.89
IC	8	445	0.89	0.90	0.90	0.90	0.91	0.91	0.91	0.91	0.92	0.92
IC	8	455	0.92	0.93	0.93	0.94	0.94	0.94	0.95	0.95	0.96	0.96
IC	8	465	0.96	0.97	0.97	0.98	0.98	0.88	0.82	0.79	0.77	0.76
IC	8	475	0.75	0.75	0.75	0.74	0.74	0.74	0.74	0.74	0.74	0.74
IC	8	485	0.74	0.74	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.72
IC	8	495	0.72	0.72	0.71	0.71	0.71	0.71	0.71	0.70	0.70	0.70
IC	8	505	0.70	0.69	0.69	0.69	0.68	0.68	0.68	0.67	0.67	0.67
IC	8	515	0.66	0.66	0.65	0.65	0.64	0.64	0.63	0.63	0.62	0.62
IC	8	525	0.61	0.59	0.57	0.56	0.54	0.53	0.51	0.50	0.49	0.47
IC	8	535	0.46	0.44	0.42	0.41	0.39	0.37	0.35	0.33	0.31	0.29
IC	8	545	0.27	0.25	0.24	0.21	0.19	0.17	0.15	0.12	0.10	0.07
IC	8	555	0.05	0.02								
BB	5	225	1.39	1.37	1.35	1.33	1.31	1.29	1.27	1.26	1.24	1.22
BB	5	235	1.21	1.19	1.17	1.16	1.14	1.13	1.11	1.09	1.08	1.07
BB	5	245	1.05	1.04	1.02	1.01	1.00					
BB	6	250	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.01
BB	6	260	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.02
BB	6	270	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.03
BB	6	280	1.03	1.03	1.03	1.03	1.03					

BB	7	285	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	7	295	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	7	305	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	7	315	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	7	325	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	7	335	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
BB	7	345	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.03	1.03	1.03
BB	7	355	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	7	365	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.05	1.05
BB	7	375	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BB	7	385	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BB	7	395	1.05	1.05	1.05	1.04	1.04	1.04	1.10	1.10	1.10	1.10

INTERMEDIATE REPORT

Ammonia Nitrogen — LA-QUAL TMDL for Gulf ICWW and Bayou Black

mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	1	11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	1	21	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
IC	1	31	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12		
IC	2	39	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12
IC	2	49	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.09
IC	2	59	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08
IC	2	69	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
IC	2	79	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
IC	2	89	0.08	0.08								
IC	3	91	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09
IC	3	101	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10
IC	3	111	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.08
IC	3	121	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09		
IC	4	129	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
IC	4	139	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
IC	4	149	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
IC	4	159	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
IC	4	169	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
IC	4	179	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10
IC	4	189	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09
IC	4	199	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
IC	4	209	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
IC	4	219	0.09	0.09	0.09	0.09	0.09	0.09				
IC	8	405	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
IC	8	415	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
IC	8	425	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
IC	8	435	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
IC	8	445	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09
IC	8	455	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
IC	8	465	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.07	0.07
IC	8	475	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
IC	8	485	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06
IC	8	495	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06

IC	8	505	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
IC	8	515	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05
IC	8	525	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04
IC	8	535	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03
IC	8	545	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.07	0.08
IC	8	555	0.10	0.13								
BB	5	225	0.25	0.22	0.20	0.17	0.16	0.14	0.13	0.12	0.11	0.10
BB	5	235	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07
BB	5	245	0.07	0.06	0.06	0.06	0.06					
BB	6	250	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BB	6	260	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BB	6	270	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
BB	6	280	0.06	0.06	0.06	0.06	0.06					
BB	7	285	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07
BB	7	295	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BB	7	305	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BB	7	315	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BB	7	325	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BB	7	335	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
BB	7	345	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.14	0.14	0.14
BB	7	355	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
BB	7	365	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12
BB	7	375	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
BB	7	385	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11
BB	7	395	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11

INTERMEDIATE REPORT

Nitrate+Nitrite Nitrogen LA-QUAL TMDL for Gulf ICWW and Bayou Black

mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	2	39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	89	0.00	0.00								
IC	3	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	4	129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IC	4	199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	219	0.00	0.00	0.00	0.00	0.00	0.00				
IC	8	405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	415	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	515	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	555	0.11	0.21								
BB	5	225	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	245	0.00	0.00	0.00	0.00	0.00					
BB	6	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	280	0.00	0.00	0.00	0.00	0.00					
BB	7	285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	295	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	385	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

INTERMEDIATE REPORT

Total Nitrogen — LA-QUAL TMDL for Gulf ICWW and Bayou Black

mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	1.42	1.42	1.42	1.43	1.43	1.43	1.43	1.43	1.43	1.43
IC	1	11	1.43	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
IC	1	21	1.42	1.42	1.42	1.42	1.43	1.43	1.43	1.43	1.44	1.44
IC	1	31	1.45	1.46	1.47	1.49	1.51	1.54	1.57	1.62		
IC	2	39	1.69	1.69	1.68	1.68	1.68	1.68	1.67	1.67	1.67	1.67
IC	2	49	1.67	1.66	1.66	1.66	1.65	1.65	1.65	1.63	1.51	1.11
IC	2	59	0.97	0.93	0.92	0.92	0.92	0.92	0.92	0.93	0.93	0.93
IC	2	69	0.94	0.94	0.94	0.95	0.95	0.96	0.96	0.96	0.97	0.97

IC	2	79	0.98	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.01	1.02
IC	2	89	1.02	0.97								
IC	3	91	0.96	0.95	0.96	0.96	0.97	0.98	0.98	0.99	1.00	1.01
IC	3	101	1.02	1.03	1.04	1.05	1.06	1.08	1.09	1.10	1.11	1.13
IC	3	111	1.14	1.16	1.17	1.19	1.20	1.22	1.24	1.10	1.03	0.98
IC	3	121	0.96	0.96	0.96	0.97	0.98	1.00	1.02	1.05		
IC	4	129	1.08	1.11	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.13
IC	4	139	1.13	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.15
IC	4	149	1.15	1.15	1.15	1.15	1.16	1.16	1.16	1.17	1.17	1.17
IC	4	159	1.18	1.18	1.19	1.19	1.20	1.20	1.21	1.21	1.22	1.23
IC	4	169	1.24	1.25	1.26	1.27	1.28	1.29	1.31	1.32	1.34	1.35
IC	4	179	1.37	1.39	1.41	1.36	1.32	1.28	1.26	1.23	1.21	1.20
IC	4	189	1.18	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.14	1.13
IC	4	199	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.12	1.12
IC	4	209	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.11	1.11	1.10
IC	4	219	1.09	1.08	1.06	1.05	1.05	1.05				
IC	8	405	1.05	0.99	0.96	0.95	0.95	0.95	0.95	0.95	0.95	0.93
IC	8	415	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.93
IC	8	425	0.93	0.93	0.93	0.93	0.94	0.94	0.94	0.94	0.94	0.95
IC	8	435	0.95	0.95	0.95	0.96	0.96	0.96	0.97	0.97	0.97	0.97
IC	8	445	0.98	0.98	0.98	0.99	0.99	0.99	1.00	1.00	1.00	1.01
IC	8	455	1.01	1.02	1.02	1.02	1.03	1.03	1.04	1.04	1.04	1.05
IC	8	465	1.05	1.06	1.06	1.06	1.07	0.96	0.90	0.86	0.84	0.83
IC	8	475	0.82	0.82	0.81	0.81	0.81	0.81	0.81	0.80	0.80	0.80
IC	8	485	0.80	0.80	0.80	0.80	0.80	0.80	0.79	0.79	0.79	0.79
IC	8	495	0.78	0.78	0.78	0.78	0.77	0.77	0.77	0.77	0.76	0.76
IC	8	505	0.76	0.75	0.75	0.75	0.74	0.74	0.74	0.73	0.73	0.73
IC	8	515	0.72	0.72	0.71	0.71	0.70	0.70	0.69	0.68	0.68	0.67
IC	8	525	0.67	0.64	0.62	0.60	0.59	0.57	0.56	0.54	0.53	0.51
IC	8	535	0.50	0.48	0.46	0.44	0.42	0.40	0.38	0.36	0.34	0.32
IC	8	545	0.30	0.28	0.27	0.25	0.23	0.21	0.20	0.18	0.17	0.16
IC	8	555	0.26	0.36								
BB	5	225	1.64	1.59	1.54	1.50	1.47	1.43	1.40	1.37	1.35	1.32
BB	5	235	1.30	1.28	1.26	1.24	1.22	1.20	1.18	1.17	1.15	1.13
BB	5	245	1.12	1.10	1.09	1.07	1.06					
BB	6	250	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.07
BB	6	260	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.08	1.08
BB	6	270	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.09	1.09
BB	6	280	1.09	1.09	1.09	1.09	1.09					
BB	7	285	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.10	1.10	1.10
BB	7	295	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.09
BB	7	305	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.10	1.10	1.10
BB	7	315	1.10	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
BB	7	325	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
BB	7	335	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
BB	7	345	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.17	1.17	1.17
BB	7	355	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.16
BB	7	365	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.17
BB	7	375	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
BB	7	385	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16

BB	7	395	1.16	1.16	1.16	1.16	1.16	1.16	1.21	1.21	1.21	1.21

INTERMEDIATE REPORT

Chlorophyll a — LA-QUAL TMDL for Gulf ICWW and Bayou Black

µg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	1	11	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	1	21	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	1	31	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00		
IC	2	39	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	49	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	59	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	69	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	79	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	89	20.00	20.00								
IC	3	91	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	3	101	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	3	111	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	3	121	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00		
IC	4	129	20.04	20.08	20.12	20.17	20.21	20.25	20.29	20.33	20.38	20.42
IC	4	139	20.46	20.50	20.54	20.58	20.62	20.67	20.71	20.75	20.79	20.83
IC	4	149	20.88	20.92	20.96	21.00	21.04	21.08	21.12	21.17	21.21	21.25
IC	4	159	21.29	21.33	21.38	21.42	21.46	21.50	21.54	21.58	21.62	21.67
IC	4	169	21.71	21.75	21.79	21.83	21.88	21.92	21.96	22.00	22.04	22.08
IC	4	179	22.12	22.17	22.21	22.25	22.29	22.33	22.38	22.42	22.46	22.50
IC	4	189	22.54	22.58	22.62	22.67	22.71	22.75	22.79	22.83	22.88	22.92
IC	4	199	22.96	23.00	23.04	23.08	23.12	23.17	23.21	23.25	23.29	23.33
IC	4	209	23.38	23.42	23.46	23.50	23.54	23.58	23.62	23.67	23.71	23.75
IC	4	219	23.79	23.83	23.88	23.92	23.96	24.00				
IC	8	405	23.98	23.96	23.94	23.92	23.90	23.88	23.86	23.84	23.82	23.80
IC	8	415	23.78	23.76	23.74	23.72	23.70	23.68	23.66	23.64	23.62	23.61
IC	8	425	23.59	23.57	23.55	23.53	23.51	23.49	23.47	23.45	23.43	23.41
IC	8	435	23.39	23.37	23.35	23.33	23.31	23.29	23.27	23.25	23.23	23.21
IC	8	445	23.19	23.17	23.15	23.13	23.11	23.09	23.07	23.05	23.03	23.01
IC	8	455	22.99	22.97	22.95	22.93	22.91	22.89	22.88	22.86	22.84	22.82
IC	8	465	22.80	22.78	22.76	22.74	22.72	22.70	22.68	22.66	22.64	22.62
IC	8	475	22.60	22.58	22.56	22.54	22.52	22.50	22.48	22.46	22.44	22.42
IC	8	485	22.40	22.38	22.36	22.34	22.32	22.30	22.28	22.26	22.24	22.22
IC	8	495	22.20	22.18	22.16	22.14	22.12	22.11	22.09	22.07	22.05	22.03
IC	8	505	22.01	21.99	21.97	21.95	21.93	21.91	21.89	21.87	21.85	21.83
IC	8	515	21.81	21.79	21.77	21.75	21.73	21.71	21.69	21.67	21.65	21.63
IC	8	525	21.61	21.59	21.57	21.55	21.53	21.51	21.49	21.47	21.45	21.43
IC	8	535	21.41	21.39	21.38	21.36	21.34	21.32	21.30	21.28	21.26	21.24
IC	8	545	21.22	21.20	21.18	21.16	21.14	21.12	21.10	21.08	21.06	21.04
IC	8	555	21.02	21.00								
BB	5	225	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
BB	5	235	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
BB	5	245	25.00	25.00	25.00	25.00	25.00					
BB	6	250	25.71	26.43	27.14	27.86	28.57	29.29	30.00	30.71	31.43	32.14
BB	6	260	32.86	33.57	34.29	35.00	35.71	36.43	37.14	37.86	38.57	39.29

BB	6	270	40.00	40.71	41.43	42.14	42.86	43.57	44.29	45.00	45.71	46.43
BB	6	280	47.14	47.86	48.57	49.29	50.00					
BB	7	285	49.78	49.57	49.35	49.13	48.92	48.70	48.48	48.27	48.05	47.83
BB	7	295	47.62	47.40	47.18	46.97	46.75	46.53	46.32	46.10	45.88	45.67
BB	7	305	45.45	45.23	45.02	44.80	44.58	44.37	44.15	43.93	43.72	43.50
BB	7	315	43.28	43.07	42.85	42.63	42.42	42.20	41.98	41.77	41.55	41.33
BB	7	325	41.12	40.90	40.68	40.47	40.25	40.03	39.82	39.60	39.38	39.17
BB	7	335	38.95	38.73	38.52	38.30	38.08	37.87	37.65	37.43	37.22	37.00
BB	7	345	36.78	36.57	36.35	36.13	35.92	35.70	35.48	35.27	35.05	34.83
BB	7	355	34.62	34.40	34.18	33.97	33.75	33.53	33.32	33.10	32.88	32.67
BB	7	365	32.45	32.23	32.02	31.80	31.58	31.37	31.15	30.93	30.72	30.50
BB	7	375	30.28	30.07	29.85	29.63	29.42	29.20	28.98	28.77	28.55	28.33
BB	7	385	28.12	27.90	27.68	27.47	27.25	27.03	26.82	26.60	26.38	26.17
BB	7	395	25.95	25.73	25.52	25.30	25.08	24.87	24.65	24.43	24.22	24.00

INTERMEDIATE REPORT

Temperature deg C — LA-QUAL TMDL for Gulf ICWW and Bayou Black

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	31.22	31.24	31.26	31.28	31.31	31.33	31.35	31.37	31.39	31.41
IC	1	11	31.43	31.45	31.47	31.49	31.52	31.54	31.56	31.58	31.60	31.62
IC	1	21	31.64	31.66	31.68	31.71	31.73	31.75	31.77	31.79	31.81	31.83
IC	1	31	31.85	31.87	31.89	31.92	31.94	31.96	31.98	32.00		
IC	2	39	32.00	32.00	32.01	32.01	32.01	32.01	32.01	32.02	32.02	32.02
IC	2	49	32.02	32.02	32.03	32.03	32.03	32.03	32.03	32.03	32.04	32.04
IC	2	59	32.04	32.04	32.04	32.05	32.05	32.05	32.05	32.05	32.06	32.06
IC	2	69	32.06	32.06	32.06	32.07	32.07	32.07	32.07	32.07	32.08	32.08
IC	2	79	32.08	32.08	32.08	32.08	32.09	32.09	32.09	32.09	32.09	32.10
IC	2	89	32.10	32.10								
IC	3	91	32.11	32.11	32.12	32.12	32.13	32.13	32.14	32.14	32.15	32.15
IC	3	101	32.16	32.16	32.17	32.17	32.18	32.18	32.19	32.19	32.20	32.21
IC	3	111	32.21	32.22	32.22	32.23	32.23	32.24	32.24	32.25	32.25	32.26
IC	3	121	32.26	32.27	32.27	32.28	32.28	32.29	32.29	32.30		
IC	4	129	32.30	32.29	32.29	32.28	32.28	32.27	32.27	32.27	32.26	32.26
IC	4	139	32.25	32.25	32.25	32.24	32.24	32.23	32.23	32.22	32.22	32.22
IC	4	149	32.21	32.21	32.20	32.20	32.20	32.19	32.19	32.18	32.18	32.17
IC	4	159	32.17	32.17	32.16	32.16	32.15	32.15	32.15	32.14	32.14	32.13
IC	4	169	32.13	32.12	32.12	32.12	32.11	32.11	32.10	32.10	32.10	32.09
IC	4	179	32.09	32.08	32.08	32.08	32.07	32.07	32.06	32.06	32.05	32.05
IC	4	189	32.05	32.04	32.04	32.03	32.03	32.02	32.02	32.02	32.01	32.01
IC	4	199	32.00	32.00	32.00	31.99	31.99	31.98	31.98	31.98	31.97	31.97
IC	4	209	31.96	31.96	31.95	31.95	31.95	31.94	31.94	31.93	31.93	31.92
IC	4	219	31.92	31.92	31.91	31.91	31.90	31.90				
IC	8	405	31.90	31.90	31.90	31.91	31.91	31.91	31.91	31.91	31.91	31.91
IC	8	415	31.91	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.93
IC	8	425	31.93	31.93	31.93	31.93	31.93	31.93	31.94	31.94	31.94	31.94
IC	8	435	31.94	31.94	31.94	31.94	31.95	31.95	31.95	31.95	31.95	31.95
IC	8	445	31.95	31.96	31.96	31.96	31.96	31.96	31.96	31.96	31.96	31.97
IC	8	455	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.98	31.98	31.98
IC	8	465	31.98	31.98	31.98	31.98	31.99	31.99	31.99	31.99	31.99	31.99
IC	8	475	31.99	31.99	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.01

IC	8	485	32.01	32.01	32.01	32.01	32.01	32.01	32.01	32.02	32.02	32.02
IC	8	495	32.02	32.02	32.02	32.02	32.02	32.03	32.03	32.03	32.03	32.03
IC	8	505	32.03	32.03	32.04	32.04	32.04	32.04	32.04	32.04	32.04	32.04
IC	8	515	32.05	32.05	32.05	32.05	32.05	32.05	32.05	32.06	32.06	32.06
IC	8	525	32.06	32.06	32.06	32.06	32.06	32.07	32.07	32.07	32.07	32.07
IC	8	535	32.07	32.07	32.07	32.08	32.08	32.08	32.08	32.08	32.08	32.08
IC	8	545	32.09	32.09	32.09	32.09	32.09	32.09	32.09	32.09	32.10	32.10
IC	8	555	32.10	32.10								
BB	5	225	32.10	32.09	32.09	32.08	32.08	32.08	32.07	32.07	32.06	32.06
BB	5	235	32.06	32.05	32.05	32.04	32.04	32.04	32.03	32.03	32.02	32.02
BB	5	245	32.02	32.01	32.01	32.00	32.00					
BB	6	250	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
BB	6	260	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
BB	6	270	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
BB	6	280	32.00	32.00	32.00	32.00	32.00					
BB	7	285	32.00	32.00	32.00	32.00	32.00	32.00	31.99	31.99	31.99	31.99
BB	7	295	31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.99	31.98	31.98
BB	7	305	31.98	31.98	31.98	31.98	31.98	31.98	31.98	31.98	31.98	31.98
BB	7	315	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97
BB	7	325	31.97	31.97	31.96	31.96	31.96	31.96	31.96	31.96	31.96	31.96
BB	7	335	31.96	31.96	31.96	31.95	31.95	31.95	31.95	31.95	31.95	31.95
BB	7	345	31.95	31.95	31.95	31.95	31.95	31.94	31.94	31.94	31.94	31.94
BB	7	355	31.94	31.94	31.94	31.94	31.94	31.94	31.94	31.93	31.93	31.93
BB	7	365	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.92
BB	7	375	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92	31.92
BB	7	385	31.92	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91	31.91
BB	7	395	31.91	31.91	31.91	31.90	31.90	31.90	31.90	31.90	31.90	31.90

INTERMEDIATE REPORT

Salinity ppt — LA-QUAL TMDL for Gulf ICWW and Bayou Black

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	2	39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	89	0.00	0.00								
IC	3	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	4	129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IC	4	179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	219	0.00	0.00	0.00	0.00	0.00	0.00				
IC	8	405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	415	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	515	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	555	0.00	0.00								
BB	5	225	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	245	0.00	0.00	0.00	0.00	0.00					
BB	6	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	280	0.00	0.00	0.00	0.00	0.00					
BB	7	285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	295	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	385	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

INTERMEDIATE REPORT

Reaeration Rate — LA-QUAL TMDL for Gulf ICWW and Bayou Black

per day

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.092	0.092	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
IC	1	11	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
IC	1	21	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
IC	1	31	0.093	0.093	0.094	0.094	0.094	0.094	0.094	0.094		
IC	2	39	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
IC	2	49	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065

IC	2	59	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
IC	2	69	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
IC	2	79	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
IC	2	89	0.065	0.065								
IC	3	91	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	3	101	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	3	111	0.068	0.068	0.068	0.068	0.068	0.069	0.069	0.069	0.069	0.069
IC	3	121	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069		
IC	4	129	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
IC	4	139	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
IC	4	149	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
IC	4	159	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
IC	4	169	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
IC	4	179	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
IC	4	189	0.072	0.072	0.072	0.072	0.072	0.072	0.071	0.071	0.071	0.071
IC	4	199	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071
IC	4	209	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071
IC	4	219	0.071	0.071	0.071	0.071	0.071	0.071				
IC	8	405	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	415	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	425	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	435	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	445	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	455	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	465	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	475	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	485	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	495	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	505	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	515	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	525	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	535	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	545	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
IC	8	555	0.068	0.068								
BB	5	225	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191
BB	5	235	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191
BB	5	245	0.191	0.191	0.191	0.191	0.191					
BB	6	250	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	6	260	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	6	270	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	6	280	0.751	0.751	0.751	0.751	0.751					
BB	7	285	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	7	295	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	7	305	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	7	315	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	7	325	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751	0.751
BB	7	335	0.751	0.751	0.751	0.751	0.751	0.751	0.750	0.750	0.750	0.750
BB	7	345	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
BB	7	355	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
BB	7	365	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750

BB	7	375	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
BB	7	385	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
BB	7	395	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750

INTERMEDIATE REPORT

BOD Decay Rate — LA-QUAL TMDL for Gulf ICWW and Bayou Black

per day

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
IC	1	11	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26
IC	1	21	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	1	31	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26		
IC	2	39	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	2	49	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	2	59	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	2	69	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	2	79	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	2	89	0.26	0.26								
IC	3	91	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	3	101	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	3	111	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	3	121	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26		
IC	4	129	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	139	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	149	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	159	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	169	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	179	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	189	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	199	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	209	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	4	219	0.26	0.26	0.26	0.26	0.26	0.26				
IC	8	405	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	415	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	425	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	435	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	445	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	455	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	465	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	475	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	485	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	495	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	505	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	515	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	525	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	535	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	545	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	8	555	0.26	0.26								
BB	5	225	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	5	235	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	5	245	0.26	0.26	0.26	0.26	0.26					

BB	6	250	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	6	260	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	6	270	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	6	280	0.26	0.26	0.26	0.26	0.26					
BB	7	285	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	295	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	305	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	315	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	325	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	335	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	345	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	355	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	365	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	375	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	385	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
BB	7	395	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29

INTERMEDIATE REPORT

BOD Settling Rate LA-QUAL TMDL for Gulf ICWW and Bayou Black

per day

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	2	39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	89	0.00	0.00								
IC	3	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	3	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IC	4	129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	169	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	199	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	209	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	4	219	0.00	0.00	0.00	0.00	0.00	0.00				
IC	8	405	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	415	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	435	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	445	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	455	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IC	8	465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	475	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	485	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	495	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	505	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	515	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	8	555	0.00	0.00								
BB	5	225	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	5	245	0.00	0.00	0.00	0.00	0.00					
BB	6	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	6	280	0.00	0.00	0.00	0.00	0.00					
BB	7	285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	295	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	325	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	335	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	345	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	365	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	385	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	7	395	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

INTERMEDIATE REPORT

Ammonia Decay Rate — LA-QUAL TMDL for Gulf ICWW and Bayou Black

per day

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	1	11	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28
IC	1	21	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
IC	1	31	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27		
IC	2	39	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	2	49	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.29
IC	2	59	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
IC	2	69	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
IC	2	79	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28
IC	2	89	0.28	0.28								
IC	3	91	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
IC	3	101	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27
IC	3	111	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28
IC	3	121	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28		
IC	4	129	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	4	139	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	4	149	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28

IC	4	159	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
IC	4	169	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28
IC	4	179	0.28	0.28	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28
IC	4	189	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
IC	4	199	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
IC	4	209	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
IC	4	219	0.28	0.28	0.28	0.28	0.28	0.28				
IC	8	405	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
IC	8	415	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
IC	8	425	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28
IC	8	435	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
IC	8	445	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
IC	8	455	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	8	465	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.29	0.29	0.29
IC	8	475	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
IC	8	485	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
IC	8	495	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
IC	8	505	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
IC	8	515	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
IC	8	525	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
IC	8	535	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28
IC	8	545	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27
IC	8	555	0.27	0.27								
BB	5	225	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.44	0.44	0.44
BB	5	235	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
BB	5	245	0.45	0.45	0.45	0.45	0.45					
BB	6	250	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
BB	6	260	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
BB	6	270	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
BB	6	280	0.45	0.45	0.45	0.45	0.45					
BB	7	285	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
BB	7	295	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
BB	7	305	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
BB	7	315	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.44	0.44
BB	7	325	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
BB	7	335	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
BB	7	345	0.44	0.44	0.44	0.44	0.44	0.43	0.43	0.43	0.43	0.43
BB	7	355	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
BB	7	365	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
BB	7	375	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.42
BB	7	385	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
BB	7	395	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42

INTERMEDIATE REPORT

Sediment Oxygen Demand — LA-QUAL TMDL for Gulf ICWW and Bayou Black

$g/m^2/d$

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
IC	1	1	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.05	2.05	2.05
IC	1	11	2.05	2.06	2.06	2.06	2.07	2.07	2.07	2.07	2.08	2.08
IC	1	21	2.08	2.08	2.09	2.09	2.09	2.10	2.10	2.10	2.10	2.11
IC	1	31	2.11	2.11	2.12	2.12	2.12	2.12	2.13	2.13		

IC	2	39	1.06	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.07	1.07
IC	2	49	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
IC	2	59	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
IC	2	69	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
IC	2	79	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
IC	2	89	1.07	1.07								
IC	3	91	3.86	3.86	3.86	3.86	3.86	3.86	3.87	3.87	3.87	3.87
IC	3	101	3.87	3.87	3.87	3.87	3.88	3.88	3.88	3.88	3.88	3.88
IC	3	111	3.88	3.88	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.90
IC	3	121	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.91		
IC	4	129	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.65	4.65
IC	4	139	4.65	4.65	4.65	4.65	4.65	4.65	4.64	4.64	4.64	4.64
IC	4	149	4.64	4.64	4.64	4.64	4.63	4.63	4.63	4.63	4.63	4.63
IC	4	159	4.63	4.63	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
IC	4	169	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.60
IC	4	179	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.59	4.59	4.59
IC	4	189	4.59	4.59	4.59	4.59	4.59	4.58	4.58	4.58	4.58	4.58
IC	4	199	4.58	4.58	4.58	4.58	4.57	4.57	4.57	4.57	4.57	4.57
IC	4	209	4.57	4.57	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
IC	4	219	4.55	4.55	4.55	4.55	4.55	4.55				
IC	8	405	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
IC	8	415	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
IC	8	425	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
IC	8	435	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
IC	8	445	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
IC	8	455	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
IC	8	465	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
IC	8	475	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
IC	8	485	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
IC	8	495	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
IC	8	505	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
IC	8	515	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
IC	8	525	0.85	0.85	0.85	0.86	0.86	0.86	0.86	0.86	0.86	0.86
IC	8	535	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
IC	8	545	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
IC	8	555	0.86	0.86								
BB	5	225	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.85
BB	5	235	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
BB	5	245	0.85	0.85	0.85	0.85	0.85					
BB	6	250	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BB	6	260	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BB	6	270	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
BB	6	280	1.49	1.49	1.49	1.49	1.49					
BB	7	285	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77
BB	7	295	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.76
BB	7	305	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	315	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	325	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	335	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	345	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76

BB	7	355	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
BB	7	365	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.75	2.75
BB	7	375	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
BB	7	385	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
BB	7	395	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75

EXPANDED CAPSULE SUMMARY FOR ICWW

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO WIDTH	REAER VELO	BOD1 VELO	BOD1 SAT	BOD2 RATE	BOD2 DECA	NH3 SETT	DECA SETT	SOD DECA
	km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
	HDWTR	0.651	30.6	0.0	6.7	3.7	0.0	1.3	0.1	20.0												
1 IC	1	93.75	0.677	31.2	0.0	6.5	2.5	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.092	0.25	0.00	0.00	0.00	0.27	2.03
2 IC	1	93.50	0.704	31.2	0.0	6.5	2.5	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.092	0.25	0.00	0.00	0.00	0.27	2.03
3 IC	1	93.25	0.730	31.3	0.0	6.5	2.4	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.03
4 IC	1	93.00	0.756	31.3	0.0	6.5	2.4	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.04
5 IC	1	92.75	0.783	31.3	0.0	6.5	2.4	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.04
6 IC	1	92.50	0.809	31.3	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.04
7 IC	1	92.25	0.835	31.3	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.000	0.000	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.04
8 IC	1	92.00	0.862	31.4	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.05
9 IC	1	91.75	0.888	31.4	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.05
10 IC	1	91.50	0.914	31.4	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.05
11 IC	1	91.25	0.940	31.4	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.05
12 IC	1	91.00	0.967	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.06
13 IC	1	90.75	0.993	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.06
14 IC	1	90.50	1.019	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.4	0.093	0.25	0.00	0.00	0.00	0.27	2.06
15 IC	1	90.25	1.046	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.4	0.093	0.25	0.00	0.00	0.00	0.28	2.07
16 IC	1	90.00	1.072	31.5	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.4	0.093	0.25	0.00	0.00	0.00	0.28	2.07
17 IC	1	89.75	1.098	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.4	0.093	0.26	0.00	0.00	0.00	0.28	2.07
18 IC	1	89.50	1.125	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.4	0.093	0.26	0.00	0.00	0.00	0.28	2.07
19 IC	1	89.25	1.151	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.4	0.093	0.26	0.00	0.00	0.00	0.28	2.08
20 IC	1	89.00	1.177	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.4	0.093	0.26	0.00	0.00	0.00	0.28	2.08
21 IC	1	88.75	1.204	31.6	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.08
22 IC	1	88.50	1.230	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.08
23 IC	1	88.25	1.256	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.09
24 IC	1	88.00	1.283	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.09
25 IC	1	87.75	1.309	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.09
26 IC	1	87.50	1.335	31.7	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.10
27 IC	1	87.25	1.362	31.8	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.10
28 IC	1	87.00	1.388	31.8	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.10
29 IC	1	86.75	1.414	31.8	0.0	6.7	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.10
30 IC	1	86.50	1.440	31.8	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.11
31 IC	1	86.25	1.467	31.9	0.0	6.6	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.11
32 IC	1	86.00	1.493	31.9	0.0	6.5	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.093	0.26	0.00	0.00	0.00	0.28	2.11
33 IC	1	85.75	1.519	31.9	0.0	6.5	2.3	0.0	1.3	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.12
34 IC	1	85.50	1.546	31.9	0.0	6.4	2.3	0.0	1.4	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.12
35 IC	1	85.25	1.572	31.9	0.0	6.2	2.4	0.0	1.4	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.12
36 IC	1	85.00	1.598	32.0	0.0	6.0	2.5	0.0	1.4	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.12
37 IC	1	84.75	1.625	32.0	0.0	5.7	2.7	0.0	1.5	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.28	2.13
38 IC	1	84.50	1.651	32.0	0.0	5.4	3.0	0.0	1.5	0.1	20.0	0.9	9.30	182.5	0.001	0.001	7.3	0.094	0.26	0.00	0.00	0.00	0.27	2.13
	WASTELOAD # 039 (Bayou Boeuff) ENTERS HERE																					
39 IC	2	84.25	50.280	32.0	0.0	5.0	3.6	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.06

40	IC	2	84.00	50.297	32.0	0.0	5.0	3.5	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.06
41	IC	2	83.75	50.313	32.0	0.0	5.0	3.5	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.06
42	IC	2	83.50	50.330	32.0	0.0	5.0	3.4	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
43	IC	2	83.25	50.346	32.0	0.0	5.0	3.4	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
44	IC	2	83.00	50.363	32.0	0.0	5.0	3.3	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
45	IC	2	82.75	50.379	32.0	0.0	5.0	3.3	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
46	IC	2	82.50	50.395	32.0	0.0	5.0	3.2	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
47	IC	2	82.25	50.412	32.0	0.0	5.0	3.2	0.0	1.6	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
48	IC	2	82.00	50.428	32.0	0.0	5.0	3.2	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
49	IC	2	81.75	50.445	32.0	0.0	5.0	3.1	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
50	IC	2	81.50	50.461	32.0	0.0	5.0	3.1	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
51	IC	2	81.25	50.478	32.0	0.0	5.0	3.1	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
52	IC	2	81.00	50.494	32.0	0.0	5.0	3.0	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
53	IC	2	80.75	50.511	32.0	0.0	5.0	3.0	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
54	IC	2	80.50	50.527	32.0	0.0	5.1	3.0	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
55	IC	2	80.25	50.543	32.0	0.0	5.1	3.0	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
56	IC	2	80.00	50.560	32.0	0.0	5.1	2.9	0.0	1.5	0.1	20.0	0.5	13.35	209.1	0.018	0.018	7.3	0.065	0.26	0.00	0.00	0.00	0.27	1.07
DIVERSION # 057 (Bayou Chene) LEAVES HERE																										
57	IC	2	79.75	-11.032	32.0	0.0	5.7	2.8	0.0	1.4	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.28	1.07
58	IC	2	79.50	-11.016	32.0	0.0	7.4	2.5	0.0	1.0	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
59	IC	2	79.25	-10.999	32.0	0.0	8.0	2.4	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
60	IC	2	79.00	-10.983	32.0	0.0	8.2	2.3	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
61	IC	2	78.75	-10.966	32.0	0.0	8.2	2.3	0.0	0.8	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
62	IC	2	78.50	-10.950	32.0	0.0	8.2	2.3	0.0	0.8	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
63	IC	2	78.25	-10.933	32.0	0.0	8.2	2.3	0.0	0.8	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
64	IC	2	78.00	-10.917	32.0	0.0	8.1	2.3	0.0	0.8	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
65	IC	2	77.75	-10.901	32.1	0.0	8.1	2.3	0.0	0.8	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
66	IC	2	77.50	-10.884	32.1	0.0	8.0	2.3	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
67	IC	2	77.25	-10.868	32.1	0.0	8.0	2.3	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
68	IC	2	77.00	-10.851	32.1	0.0	7.9	2.3	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
69	IC	2	76.75	-10.835	32.1	0.0	7.9	2.3	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
70	IC	2	76.50	-10.818	32.1	0.0	7.8	2.3	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
71	IC	2	76.25	-10.802	32.1	0.0	7.7	2.3	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07

EXPANDED CAPSULE SUMMARY FOR ICWW

															ADVEC	MEAN	DO	REAER	BOD1	BOD1	BOD2	BOD2	NH3			
IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	VELO	VELO	SAT	RATE	DECA	SETT	DECA	SETT	DECA	SOD	
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d	
72	IC	2	76.00	-10.785	32.1	0.0	7.7	2.3	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07	
73	IC	2	75.75	-10.769	32.1	0.0	7.6	2.4	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07	
74	IC	2	75.50	-10.753	32.1	0.0	7.5	2.4	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07	
75	IC	2	75.25	-10.736	32.1	0.0	7.5	2.4	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07	
76	IC	2	75.00	-10.720	32.1	0.0	7.4	2.4	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07	
77	IC	2	74.75	-10.703	32.1	0.0	7.3	2.4	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07	
78	IC	2	74.50	-10.687	32.1	0.0	7.2	2.4	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07	
79	IC	2	74.25	-10.670	32.1	0.0	7.2	2.4	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07	
80	IC	2	74.00	-10.654	32.1	0.0	7.1	2.4	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07	
81	IC	2	73.75	-10.637	32.1	0.0	7.0	2.4	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07	
82	IC	2	73.50	-10.621	32.1	0.0	6.9	2.4	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07	
83	IC	2	73.25	-10.605	32.1	0.0	6.8	2.5	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07	
84	IC	2	73.00	-10.588	32.1	0.0	6.7	2.5	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07	

85	IC	2	72.75	-10.572	32.1	0.0	6.7	2.5	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.29	1.07
86	IC	2	72.50	-10.555	32.1	0.0	6.6	2.5	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.28	1.07
87	IC	2	72.25	-10.539	32.1	0.0	6.5	2.6	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.28	1.07
88	IC	2	72.00	-10.522	32.1	0.0	6.4	2.6	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.004	0.004	7.3	0.065	0.26	0.00	0.00	0.00	0.28	1.07
WASTELOAD # 089 (Unnamed Canal) ENTERS HERE																									
89	IC	2	71.75	-8.854	32.1	0.0	6.3	2.7	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.003	0.003	7.3	0.065	0.26	0.00	0.00	0.00	0.28	1.07
90	IC	2	71.50	-8.838	32.1	0.0	6.2	2.4	0.0	0.9	0.1	20.0	0.5	13.35	209.1	-0.003	0.003	7.3	0.065	0.26	0.00	0.00	0.00	0.28	1.07
91	IC	3	71.25	-8.821	32.1	0.0	6.1	2.3	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.86
92	IC	3	71.00	-8.805	32.1	0.0	6.0	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.86
93	IC	3	70.75	-8.789	32.1	0.0	6.0	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.86
94	IC	3	70.50	-8.772	32.1	0.0	6.0	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.86
95	IC	3	70.25	-8.756	32.1	0.0	5.9	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.86
96	IC	3	70.00	-8.739	32.1	0.0	5.9	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.86
97	IC	3	69.75	-8.723	32.1	0.0	5.9	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.87
98	IC	3	69.50	-8.706	32.1	0.0	5.8	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.87
99	IC	3	69.25	-8.690	32.1	0.0	5.8	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.87
100	IC	3	69.00	-8.673	32.2	0.0	5.7	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.87
101	IC	3	68.75	-8.657	32.2	0.0	5.7	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.87
102	IC	3	68.50	-8.641	32.2	0.0	5.6	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.87
103	IC	3	68.25	-8.624	32.2	0.0	5.6	2.2	0.0	1.0	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.87
104	IC	3	68.00	-8.608	32.2	0.0	5.5	2.2	0.0	1.0	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.87
105	IC	3	67.75	-8.591	32.2	0.0	5.5	2.2	0.0	1.0	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.88
106	IC	3	67.50	-8.575	32.2	0.0	5.4	2.2	0.0	1.0	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	3.88
107	IC	3	67.25	-8.558	32.2	0.0	5.3	2.2	0.0	1.0	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	3.88
108	IC	3	67.00	-8.542	32.2	0.0	5.3	2.3	0.0	1.0	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	3.88
109	IC	3	66.75	-8.525	32.2	0.0	5.2	2.3	0.0	1.0	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	3.88
110	IC	3	66.50	-8.509	32.2	0.0	5.1	2.3	0.0	1.0	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	3.88
111	IC	3	66.25	-8.493	32.2	0.0	5.1	2.4	0.0	1.0	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	3.88
112	IC	3	66.00	-8.476	32.2	0.0	5.0	2.5	0.0	1.1	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	3.88
113	IC	3	65.75	-8.460	32.2	0.0	5.0	2.6	0.0	1.1	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	3.89
114	IC	3	65.50	-8.443	32.2	0.0	5.0	2.7	0.0	1.1	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	3.89
115	IC	3	65.25	-8.427	32.2	0.0	5.1	2.9	0.0	1.1	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	3.89
116	IC	3	65.00	-8.410	32.2	0.0	5.3	3.1	0.0	1.1	0.1	20.0	0.3	12.77	395.3	-0.002	0.002	7.3	0.069	0.26	0.00	0.00	0.00	0.27	3.89
WASTELOAD # 117 (Copasaw Canal) ENTERS HERE																									
117	IC	3	64.75	-2.986	32.2	0.0	5.5	3.5	0.0	1.1	0.1	20.0	0.3	12.77	395.3	-0.001	0.001	7.3	0.069	0.26	0.00	0.00	0.00	0.28	3.89
118	IC	3	64.50	-2.970	32.2	0.0	5.5	2.7	0.0	1.0	0.1	20.0	0.3	12.77	395.3	-0.001	0.001	7.3	0.069	0.26	0.00	0.00	0.00	0.28	3.89
119	IC	3	64.25	-2.953	32.3	0.0	5.7	2.4	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.001	0.001	7.3	0.069	0.26	0.00	0.00	0.00	0.28	3.89
120	IC	3	64.00	-2.937	32.3	0.0	5.8	2.3	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.001	0.001	7.3	0.069	0.26	0.00	0.00	0.00	0.28	3.90
121	IC	3	63.75	-2.920	32.3	0.0	5.9	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.001	0.001	7.3	0.069	0.26	0.00	0.00	0.00	0.28	3.90
122	IC	3	63.50	-2.904	32.3	0.0	6.0	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.001	0.001	7.3	0.069	0.26	0.00	0.00	0.00	0.28	3.90
123	IC	3	63.25	-2.887	32.3	0.0	5.9	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.001	0.001	7.3	0.069	0.26	0.00	0.00	0.00	0.28	3.90
124	IC	3	63.00	-2.871	32.3	0.0	5.9	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.001	0.001	7.3	0.069	0.26	0.00	0.00	0.00	0.28	3.90
125	IC	3	62.75	-2.855	32.3	0.0	5.8	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.001	0.001	7.3	0.069	0.26	0.00	0.00	0.00	0.28	3.90
126	IC	3	62.50	-2.838	32.3	0.0	5.7	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.001	0.001	7.3	0.069	0.26	0.00	0.00	0.00	0.28	3.90
127	IC	3	62.25	-2.822	32.3	0.0	5.6	2.2	0.0	0.9	0.1	20.0	0.3	12.77	395.3	-0.001	0.001	7.3	0.069	0.26	0.00	0.00	0.00	0.28	3.90
128	IC	3	62.00	-2.805	32.3	0.0	5.4	2.2	0.0	1.0	0.1	20.0	0.3	12.77	395.3	-0.001	0.001	7.3	0.069	0.26	0.00	0.00	0.00	0.28	3.91
129	IC	4	61.75	-2.789	32.3	0.0	5.2	2.3	0.0	1.0	0.1	20.0	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.66
130	IC	4	61.50	-2.772	32.3	0.0	5.1	2.3	0.0	1.0	0.1	20.1	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.66
131	IC	4	61.25	-2.756	32.3	0.0	5.0	2.3	0.0	1.0	0.1	20.1	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.66
132	IC	4	61.00	-2.739	32.3	0.0	5.0	2.3	0.0	1.0	0.1	20.2	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.66

133	IC	4	60.75	-2.723	32.3	0.0	5.0	2.3	0.0	1.0	0.1	20.2	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.66
134	IC	4	60.50	-2.707	32.3	0.0	5.0	2.3	0.0	1.0	0.1	20.2	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.66
135	IC	4	60.25	-2.690	32.3	0.0	5.1	2.3	0.0	1.0	0.1	20.3	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.66
136	IC	4	60.00	-2.674	32.3	0.0	5.1	2.3	0.0	1.0	0.1	20.3	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.66
137	IC	4	59.75	-2.657	32.3	0.0	5.1	2.3	0.0	1.0	0.1	20.4	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.65
138	IC	4	59.50	-2.641	32.3	0.0	5.1	2.3	0.0	1.0	0.1	20.4	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.65
139	IC	4	59.25	-2.624	32.3	0.0	5.1	2.3	0.0	1.0	0.1	20.5	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.65
140	IC	4	59.00	-2.608	32.2	0.0	5.2	2.3	0.0	1.0	0.1	20.5	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.65
141	IC	4	58.75	-2.592	32.2	0.0	5.2	2.3	0.0	1.0	0.1	20.5	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.65
142	IC	4	58.50	-2.575	32.2	0.0	5.2	2.3	0.0	1.0	0.1	20.6	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.65
143	IC	4	58.25	-2.559	32.2	0.0	5.2	2.3	0.0	1.0	0.1	20.6	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.65

EXPANDED CAPSULE SUMMARY FOR ICWW

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	REAER WIDTH	BOD1 VELO	BOD1 VELO	BOD2 SAT	BOD2 RATE	NH3 DECA	SETT DECA	SETT DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	g/m²/d
144	IC	4	58.00	-2.542	32.2	0.0	5.2	2.3	0.0	1.0	0.1	20.7	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.65
145	IC	4	57.75	-2.526	32.2	0.0	5.3	2.3	0.0	1.0	0.1	20.7	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.64
146	IC	4	57.50	-2.509	32.2	0.0	5.3	2.3	0.0	1.0	0.1	20.8	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.64
147	IC	4	57.25	-2.493	32.2	0.0	5.3	2.3	0.0	1.0	0.1	20.8	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.64
148	IC	4	57.00	-2.476	32.2	0.0	5.3	2.3	0.0	1.0	0.1	20.8	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.64
149	IC	4	56.75	-2.460	32.2	0.0	5.3	2.3	0.0	1.1	0.1	20.9	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.64
150	IC	4	56.50	-2.444	32.2	0.0	5.4	2.3	0.0	1.1	0.1	20.9	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.64
151	IC	4	56.25	-2.427	32.2	0.0	5.4	2.3	0.0	1.1	0.1	21.0	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.64
152	IC	4	56.00	-2.411	32.2	0.0	5.4	2.3	0.0	1.1	0.1	21.0	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.64
153	IC	4	55.75	-2.394	32.2	0.0	5.4	2.3	0.0	1.1	0.1	21.0	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.63
154	IC	4	55.50	-2.378	32.2	0.0	5.4	2.3	0.0	1.1	0.1	21.1	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.63
155	IC	4	55.25	-2.361	32.2	0.0	5.4	2.3	0.0	1.1	0.1	21.1	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.63
156	IC	4	55.00	-2.345	32.2	0.0	5.5	2.3	0.0	1.1	0.1	21.2	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.63
157	IC	4	54.75	-2.329	32.2	0.0	5.5	2.3	0.0	1.1	0.1	21.2	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.63
158	IC	4	54.50	-2.312	32.2	0.0	5.5	2.3	0.0	1.1	0.1	21.2	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.63
159	IC	4	54.25	-2.296	32.2	0.0	5.5	2.3	0.0	1.1	0.1	21.3	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.63
160	IC	4	54.00	-2.279	32.2	0.0	5.5	2.3	0.0	1.1	0.1	21.3	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.63
161	IC	4	53.75	-2.263	32.2	0.0	5.5	2.3	0.0	1.1	0.1	21.4	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.62
162	IC	4	53.50	-2.246	32.2	0.0	5.5	2.3	0.0	1.1	0.1	21.4	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.62
163	IC	4	53.25	-2.230	32.2	0.0	5.5	2.3	0.0	1.1	0.1	21.5	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.62
164	IC	4	53.00	-2.213	32.1	0.0	5.5	2.3	0.0	1.1	0.1	21.5	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.62
165	IC	4	52.75	-2.197	32.1	0.0	5.5	2.3	0.0	1.1	0.1	21.5	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.62
166	IC	4	52.50	-2.181	32.1	0.0	5.5	2.3	0.0	1.1	0.1	21.6	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.62
167	IC	4	52.25	-2.164	32.1	0.0	5.5	2.3	0.0	1.1	0.1	21.6	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.62
168	IC	4	52.00	-2.148	32.1	0.0	5.5	2.3	0.0	1.1	0.1	21.7	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.62
169	IC	4	51.75	-2.131	32.1	0.0	5.5	2.3	0.0	1.1	0.1	21.7	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.61
170	IC	4	51.50	-2.115	32.1	0.0	5.5	2.3	0.0	1.1	0.1	21.8	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.61
171	IC	4	51.25	-2.098	32.1	0.0	5.5	2.3	0.0	1.1	0.1	21.8	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.61
172	IC	4	51.00	-2.082	32.1	0.0	5.5	2.3	0.0	1.2	0.1	21.8	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.61
173	IC	4	50.75	-2.066	32.1	0.0	5.5	2.4	0.0	1.2	0.1	21.9	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.61
174	IC	4	50.50	-2.049	32.1	0.0	5.5	2.4	0.0	1.2	0.1	21.9	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.61
175	IC	4	50.25	-2.033	32.1	0.0	5.5	2.4	0.0	1.2	0.1	22.0	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.61
176	IC	4	50.00	-2.016	32.1	0.0	5.5	2.5	0.0	1.2	0.1	22.0	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.61
177	IC	4	49.75	-2.000	32.1	0.0	5.6	2.6	0.0	1.2	0.1	22.0	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.27	4.61
178	IC	4	49.50	-1.983	32.1	0.0	5.7	2.8	0.0	1.2	0.1	22.1	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.60

179	IC	4	49.25	-1.967	32.1	0.0	5.9	3.0	0.0	1.3	0.1	22.1	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.60
180	IC	4	49.00	-1.950	32.1	0.0	6.3	3.5	0.0	1.3	0.1	22.2	0.3	12.19	190.0	-0.001	0.001	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.60
WASTELOAD # 181 (Minors Canal South) ENTERS HERE																									
DIVERSION # 181 (Minors Canal North) LEAVES HERE																									
181	IC	4	48.75	0.289	32.1	0.0	7.1	4.1	0.0	1.3	0.1	22.2	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.29	4.60
182	IC	4	48.50	0.305	32.1	0.0	6.2	3.2	0.0	1.2	0.1	22.2	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.60
183	IC	4	48.25	0.321	32.1	0.0	5.9	2.8	0.0	1.2	0.1	22.3	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.60
184	IC	4	48.00	0.338	32.1	0.0	5.8	2.5	0.0	1.2	0.1	22.3	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.60
185	IC	4	47.75	0.354	32.1	0.0	5.8	2.4	0.0	1.1	0.1	22.4	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.60
186	IC	4	47.50	0.371	32.1	0.0	5.9	2.4	0.0	1.1	0.1	22.4	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.59
187	IC	4	47.25	0.387	32.1	0.0	6.0	2.3	0.0	1.1	0.1	22.5	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.59
188	IC	4	47.00	0.404	32.0	0.0	6.0	2.3	0.0	1.1	0.1	22.5	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.59
189	IC	4	46.75	0.420	32.0	0.0	6.1	2.3	0.0	1.1	0.1	22.5	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.59
190	IC	4	46.50	0.436	32.0	0.0	6.1	2.3	0.0	1.1	0.1	22.6	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.59
191	IC	4	46.25	0.453	32.0	0.0	6.2	2.3	0.0	1.1	0.1	22.6	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.59
192	IC	4	46.00	0.469	32.0	0.0	6.2	2.3	0.0	1.1	0.1	22.7	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.59
193	IC	4	45.75	0.486	32.0	0.0	6.3	2.3	0.0	1.1	0.1	22.7	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.59
194	IC	4	45.50	0.502	32.0	0.0	6.3	2.3	0.0	1.1	0.1	22.8	0.3	12.19	190.0	0.000	0.000	7.3	0.072	0.26	0.00	0.00	0.00	0.28	4.58
195	IC	4	45.25	0.519	32.0	0.0	6.4	2.3	0.0	1.0	0.1	22.8	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.58
196	IC	4	45.00	0.535	32.0	0.0	6.4	2.3	0.0	1.0	0.1	22.8	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.58
197	IC	4	44.75	0.552	32.0	0.0	6.4	2.3	0.0	1.0	0.1	22.9	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.58
198	IC	4	44.50	0.568	32.0	0.0	6.4	2.3	0.0	1.0	0.1	22.9	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.58
199	IC	4	44.25	0.584	32.0	0.0	6.5	2.3	0.0	1.0	0.1	23.0	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.58
200	IC	4	44.00	0.601	32.0	0.0	6.5	2.3	0.0	1.0	0.1	23.0	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.58
201	IC	4	43.75	0.617	32.0	0.0	6.5	2.3	0.0	1.0	0.1	23.0	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.58
202	IC	4	43.50	0.634	32.0	0.0	6.6	2.3	0.0	1.0	0.1	23.1	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.58
203	IC	4	43.25	0.650	32.0	0.0	6.6	2.3	0.0	1.0	0.1	23.1	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.57
204	IC	4	43.00	0.667	32.0	0.0	6.6	2.3	0.0	1.0	0.1	23.2	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.57
205	IC	4	42.75	0.683	32.0	0.0	6.6	2.3	0.0	1.0	0.1	23.2	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.57
206	IC	4	42.50	0.699	32.0	0.0	6.7	2.3	0.0	1.0	0.1	23.2	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.57
207	IC	4	42.25	0.716	32.0	0.0	6.7	2.3	0.0	1.0	0.1	23.3	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.57
208	IC	4	42.00	0.732	32.0	0.0	6.7	2.3	0.0	1.0	0.1	23.3	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.57
209	IC	4	41.75	0.749	32.0	0.0	6.7	2.3	0.0	1.0	0.1	23.4	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.57
210	IC	4	41.50	0.765	32.0	0.0	6.8	2.3	0.0	1.0	0.1	23.4	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.57
211	IC	4	41.25	0.782	32.0	0.0	6.8	2.3	0.0	1.0	0.1	23.5	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.56
212	IC	4	41.00	0.798	31.9	0.0	6.8	2.3	0.0	1.0	0.1	23.5	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.56
213	IC	4	40.75	0.815	31.9	0.0	6.8	2.3	0.0	1.0	0.1	23.5	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.56
214	IC	4	40.50	0.831	31.9	0.0	6.8	2.3	0.0	1.0	0.1	23.6	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.56
215	IC	4	40.25	0.847	31.9	0.0	6.8	2.3	0.0	1.0	0.1	23.6	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.56

EXPANDED CAPSULE SUMMARY FOR ICWW

												ADVEC	MEAN	DO	REAER	BOD1	BOD1	BOD2	BOD2	NH3					
IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	VELO	VELO	SAT	RATE	DECA	SETT	DECA	SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
216	IC	4	40.00	0.864	31.9	0.0	6.8	2.3	0.0	1.0	0.1	23.7	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.56
217	IC	4	39.75	0.880	31.9	0.0	6.8	2.3	0.0	1.0	0.1	23.7	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.56
218	IC	4	39.50	0.897	31.9	0.0	6.8	2.4	0.0	1.0	0.1	23.8	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.56
219	IC	4	39.25	0.913	31.9	0.0	6.7	2.4	0.0	1.0	0.1	23.8	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.55
220	IC	4	39.00	0.930	31.9	0.0	6.6	2.6	0.0	1.0	0.1	23.8	0.3	12.19	190.0	0.000	0.000	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.55
DIVERSION # 221 (Houma Nav. Can.) LEAVES HERE																									
221	IC	4	38.75	-13.994	31.9	0.0	6.6	2.9	0.0	1.0	0.1	23.9	0.3	12.19	190.0	-0.006	0.006	7.3	0.071	0.26	0.00	0.00	0.00	0.28	4.55

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222 IC  4  38.50 -13.977 31.9  0.0  6.6  3.0  0.0  1.0  0.1 23.9   0.3  12.19 190.0 -0.006  0.006   7.3  0.071 0.26 0.00 0.00 0.00 0.28  4.55
    WASTELOAD # 223 (PS ICWW#1) ENTERS HERE
223 IC  4  38.25 -13.961 31.9  0.0  6.7  3.1  0.0  1.0  0.1 24.0   0.3  12.19 190.0 -0.006  0.006   7.3  0.071 0.26 0.00 0.00 0.00 0.28  4.55
224 IC  4  38.00 -13.944 31.9  0.0  6.7  3.2  0.0  1.0  0.1 24.0   0.3  12.19 190.0 -0.006  0.006   7.3  0.071 0.26 0.00 0.00 0.00 0.28  4.55
    TRIBUTARY # 225 (Bayou Black) ENTERS HERE
405 IC  8  37.75  -8.201 31.9  0.0  6.8  3.3  0.0  1.0  0.1 24.0   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
406 IC  8  37.50  -8.180 31.9  0.0  7.3  3.3  0.0  0.9  0.1 24.0   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
407 IC  8  37.25  -8.158 31.9  0.0  7.5  3.3  0.0  0.9  0.1 23.9   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
408 IC  8  37.00  -8.137 31.9  0.0  7.6  3.3  0.0  0.9  0.1 23.9   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
409 IC  8  36.75  -8.115 31.9  0.0  7.6  3.4  0.0  0.9  0.1 23.9   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
410 IC  8  36.50  -8.094 31.9  0.0  7.6  3.4  0.0  0.9  0.1 23.9   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
411 IC  8  36.25  -8.073 31.9  0.0  7.6  3.4  0.0  0.9  0.1 23.9   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
412 IC  8  36.00  -8.051 31.9  0.0  7.6  3.4  0.0  0.9  0.1 23.8   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
    WASTELOAD # 413 (Bayou Terrebonne W.) ENTERS HERE
    DIVERSION # 413 (Bayou Terrebonne E.) LEAVES HERE
413 IC  8  35.75  -8.151 31.9  0.0  7.6  3.5  0.0  0.9  0.1 23.8   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
414 IC  8  35.50  -8.129 31.9  0.0  7.7  3.3  0.0  0.9  0.1 23.8   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
415 IC  8  35.25  -8.108 31.9  0.0  7.7  3.3  0.0  0.8  0.1 23.8   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
416 IC  8  35.00  -8.086 31.9  0.0  7.7  3.2  0.0  0.8  0.1 23.8   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
    WASTELOAD # 417 (LA0111376) ENTERS HERE
417 IC  8  34.75  -8.065 31.9  0.0  7.7  3.2  0.0  0.8  0.1 23.7   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
418 IC  8  34.50  -8.043 31.9  0.0  7.7  3.2  0.0  0.8  0.1 23.7   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
419 IC  8  34.25  -8.022 31.9  0.0  7.7  3.2  0.0  0.8  0.1 23.7   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
420 IC  8  34.00  -8.001 31.9  0.0  7.7  3.2  0.0  0.8  0.1 23.7   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
421 IC  8  33.75  -7.979 31.9  0.0  7.6  3.2  0.0  0.8  0.1 23.7   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
422 IC  8  33.50  -7.958 31.9  0.0  7.6  3.2  0.0  0.8  0.1 23.6   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
423 IC  8  33.25  -7.936 31.9  0.0  7.6  3.2  0.0  0.8  0.1 23.6   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
424 IC  8  33.00  -7.915 31.9  0.0  7.5  3.2  0.0  0.8  0.1 23.6   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
425 IC  8  32.75  -7.893 31.9  0.0  7.5  3.2  0.0  0.9  0.1 23.6   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
426 IC  8  32.50  -7.872 31.9  0.0  7.5  3.2  0.0  0.9  0.1 23.6   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
427 IC  8  32.25  -7.851 31.9  0.0  7.4  3.2  0.0  0.9  0.1 23.5   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
428 IC  8  32.00  -7.829 31.9  0.0  7.4  3.2  0.0  0.9  0.1 23.5   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
429 IC  8  31.75  -7.808 31.9  0.0  7.4  3.2  0.0  0.9  0.1 23.5   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
430 IC  8  31.50  -7.786 31.9  0.0  7.3  3.2  0.0  0.9  0.1 23.5   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
431 IC  8  31.25  -7.765 31.9  0.0  7.3  3.2  0.0  0.9  0.1 23.5   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
432 IC  8  31.00  -7.744 31.9  0.0  7.2  3.2  0.0  0.9  0.1 23.4   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
433 IC  8  30.75  -7.722 31.9  0.0  7.2  3.2  0.0  0.9  0.1 23.4   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.29  0.85
434 IC  8  30.50  -7.701 31.9  0.0  7.2  3.2  0.0  0.9  0.1 23.4   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
435 IC  8  30.25  -7.679 31.9  0.0  7.1  3.2  0.0  0.9  0.1 23.4   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
436 IC  8  30.00  -7.658 31.9  0.0  7.1  3.2  0.0  0.9  0.1 23.4   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
437 IC  8  29.75  -7.636 31.9  0.0  7.0  3.2  0.0  0.9  0.1 23.3   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
438 IC  8  29.50  -7.615 31.9  0.0  7.0  3.2  0.0  0.9  0.1 23.3   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
439 IC  8  29.25  -7.594 31.9  0.0  6.9  3.2  0.0  0.9  0.1 23.3   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
440 IC  8  29.00  -7.572 31.9  0.0  6.9  3.2  0.0  0.9  0.1 23.3   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
441 IC  8  28.75  -7.551 31.9  0.0  6.8  3.2  0.0  0.9  0.1 23.3   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
442 IC  8  28.50  -7.529 31.9  0.0  6.7  3.2  0.0  0.9  0.1 23.2   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
443 IC  8  28.25  -7.508 32.0  0.0  6.7  3.2  0.0  0.9  0.1 23.2   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
444 IC  8  28.00  -7.486 32.0  0.0  6.6  3.2  0.0  0.9  0.1 23.2   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
445 IC  8  27.75  -7.465 32.0  0.0  6.6  3.3  0.0  0.9  0.1 23.2   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
446 IC  8  27.50  -7.444 32.0  0.0  6.5  3.3  0.0  0.9  0.1 23.2   0.9  12.80 155.8 -0.004  0.004   7.3  0.068 0.26 0.00 0.00 0.00 0.28  0.85
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447	IC	8	27.25	-7.422	32.0	0.0	6.4	3.3	0.0	0.9	0.1	23.2	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.85
448	IC	8	27.00	-7.401	32.0	0.0	6.4	3.3	0.0	0.9	0.1	23.1	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.85
449	IC	8	26.75	-7.379	32.0	0.0	6.3	3.3	0.0	0.9	0.1	23.1	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.85
450	IC	8	26.50	-7.358	32.0	0.0	6.2	3.3	0.0	0.9	0.1	23.1	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.85
451	IC	8	26.25	-7.337	32.0	0.0	6.2	3.3	0.0	0.9	0.1	23.1	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.85
452	IC	8	26.00	-7.315	32.0	0.0	6.1	3.3	0.0	0.9	0.1	23.1	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.85
453	IC	8	25.75	-7.294	32.0	0.0	6.0	3.3	0.0	0.9	0.1	23.0	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.85
454	IC	8	25.50	-7.272	32.0	0.0	5.9	3.4	0.0	0.9	0.1	23.0	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.85
455	IC	8	25.25	-7.251	32.0	0.0	5.9	3.4	0.0	0.9	0.1	23.0	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.85
456	IC	8	25.00	-7.229	32.0	0.0	5.8	3.4	0.0	0.9	0.1	23.0	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.85
457	IC	8	24.75	-7.208	32.0	0.0	5.7	3.5	0.0	0.9	0.1	23.0	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.85
458	IC	8	24.50	-7.187	32.0	0.0	5.7	3.5	0.0	0.9	0.1	22.9	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.85
459	IC	8	24.25	-7.165	32.0	0.0	5.6	3.6	0.0	0.9	0.1	22.9	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.85
460	IC	8	24.00	-7.144	32.0	0.0	5.6	3.6	0.0	0.9	0.1	22.9	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.85
WASTELOAD # 461 (LA0104868) ENTERS HERE																									
461	IC	8	23.75	-7.122	32.0	0.0	5.5	3.7	0.0	0.9	0.1	22.9	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.85
462	IC	8	23.50	-7.101	32.0	0.0	5.5	3.8	0.0	1.0	0.1	22.9	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.85

EXPANDED CAPSULE SUMMARY FOR ICWW

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	WIDTH	VELO	VELO	DO SAT	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	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
463	IC	8	23.25	-7.079	32.0	0.0	5.5	3.9	0.0	1.0	0.1	22.8	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.85
464	IC	8	23.00	-7.058	32.0	0.0	5.5	4.0	0.0	1.0	0.1	22.8	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.85
465	IC	8	22.75	-7.037	32.0	0.0	5.5	4.2	0.0	1.0	0.1	22.8	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.85
466	IC	8	22.50	-7.015	32.0	0.0	5.6	4.4	0.0	1.0	0.1	22.8	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.85
WASTELOAD # 467 (LA0089648) ENTERS HERE																									
467	IC	8	22.25	-6.989	32.0	0.0	5.6	4.6	0.0	1.0	0.1	22.8	0.9	12.80	155.8	-0.004	0.004	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.85
468	IC	8	22.00	-6.968	32.0	0.0	5.8	4.8	0.0	1.0	0.1	22.7	0.9	12.80	155.8	-0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.85
WASTELOAD # 469 (Company Canal North) ENTERS HERE																									
DIVERSION # 469 (Company Canal South) LEAVES HERE																									
469	IC	8	21.75	-5.068	32.0	0.0	6.0	5.1	0.0	1.0	0.1	22.7	0.9	12.80	155.8	-0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.85
470	IC	8	21.50	-5.047	32.0	0.0	6.5	4.1	0.0	0.9	0.1	22.7	0.9	12.80	155.8	-0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.85
471	IC	8	21.25	-5.026	32.0	0.0	6.9	3.6	0.0	0.8	0.1	22.7	0.9	12.80	155.8	-0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.85
472	IC	8	21.00	-5.004	32.0	0.0	7.2	3.4	0.0	0.8	0.1	22.7	0.9	12.80	155.8	-0.003	0.003	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
473	IC	8	20.75	-4.983	32.0	0.0	7.4	3.3	0.0	0.8	0.1	22.6	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
474	IC	8	20.50	-4.961	32.0	0.0	7.4	3.3	0.0	0.8	0.1	22.6	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
475	IC	8	20.25	-4.940	32.0	0.0	7.5	3.2	0.0	0.8	0.1	22.6	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
476	IC	8	20.00	-4.919	32.0	0.0	7.5	3.2	0.0	0.7	0.1	22.6	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
477	IC	8	19.75	-4.897	32.0	0.0	7.5	3.2	0.0	0.7	0.1	22.6	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
478	IC	8	19.50	-4.876	32.0	0.0	7.5	3.2	0.0	0.7	0.1	22.5	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
479	IC	8	19.25	-4.854	32.0	0.0	7.5	3.2	0.0	0.7	0.1	22.5	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
480	IC	8	19.00	-4.833	32.0	0.0	7.5	3.2	0.0	0.7	0.1	22.5	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
481	IC	8	18.75	-4.811	32.0	0.0	7.5	3.2	0.0	0.7	0.1	22.5	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
482	IC	8	18.50	-4.790	32.0	0.0	7.5	3.2	0.0	0.7	0.1	22.5	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
483	IC	8	18.25	-4.769	32.0	0.0	7.5	3.2	0.0	0.7	0.1	22.4	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
484	IC	8	18.00	-4.747	32.0	0.0	7.4	3.2	0.0	0.7	0.1	22.4	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
485	IC	8	17.75	-4.726	32.0	0.0	7.4	3.2	0.0	0.7	0.1	22.4	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
486	IC	8	17.50	-4.704	32.0	0.0	7.4	3.2	0.0	0.7	0.1	22.4	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
487	IC	8	17.25	-4.683	32.0	0.0	7.4	3.2	0.0	0.7	0.1	22.4	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
488	IC	8	17.00	-4.661	32.0	0.0	7.4	3.2	0.0	0.7	0.1	22.3	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85

489	IC	8	16.75	-4.640	32.0	0.0	7.4	3.3	0.0	0.7	0.1	22.3	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
490	IC	8	16.50	-4.619	32.0	0.0	7.4	3.3	0.0	0.7	0.1	22.3	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
491	IC	8	16.25	-4.597	32.0	0.0	7.3	3.3	0.0	0.7	0.1	22.3	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
492	IC	8	16.00	-4.576	32.0	0.0	7.3	3.3	0.0	0.7	0.1	22.3	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
WASTELOAD # 493 (St Louis Canal) ENTERS HERE																									
493	IC	8	15.75	-4.403	32.0	0.0	7.3	3.3	0.0	0.7	0.1	22.2	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
494	IC	8	15.50	-4.382	32.0	0.0	7.4	3.3	0.0	0.7	0.1	22.2	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
495	IC	8	15.25	-4.361	32.0	0.0	7.4	3.2	0.0	0.7	0.1	22.2	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
496	IC	8	15.00	-4.339	32.0	0.0	7.4	3.2	0.0	0.7	0.1	22.2	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
497	IC	8	14.75	-4.318	32.0	0.0	7.4	3.2	0.0	0.7	0.1	22.2	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
498	IC	8	14.50	-4.296	32.0	0.0	7.4	3.2	0.0	0.7	0.1	22.1	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
499	IC	8	14.25	-4.275	32.0	0.0	7.4	3.2	0.0	0.7	0.1	22.1	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
500	IC	8	14.00	-4.253	32.0	0.0	7.4	3.2	0.0	0.7	0.1	22.1	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
501	IC	8	13.75	-4.232	32.0	0.0	7.3	3.2	0.0	0.7	0.1	22.1	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
502	IC	8	13.50	-4.211	32.0	0.0	7.3	3.2	0.0	0.7	0.1	22.1	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
503	IC	8	13.25	-4.189	32.0	0.0	7.3	3.2	0.0	0.7	0.1	22.0	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
504	IC	8	13.00	-4.168	32.0	0.0	7.3	3.2	0.0	0.7	0.1	22.0	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
505	IC	8	12.75	-4.146	32.0	0.0	7.3	3.2	0.0	0.7	0.1	22.0	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
506	IC	8	12.50	-4.125	32.0	0.0	7.3	3.2	0.0	0.7	0.1	22.0	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
507	IC	8	12.25	-4.103	32.0	0.0	7.2	3.2	0.0	0.7	0.1	22.0	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
508	IC	8	12.00	-4.082	32.0	0.0	7.2	3.2	0.0	0.7	0.1	21.9	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
509	IC	8	11.75	-4.061	32.0	0.0	7.2	3.2	0.0	0.7	0.1	21.9	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
510	IC	8	11.50	-4.039	32.0	0.0	7.2	3.2	0.0	0.7	0.1	21.9	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
511	IC	8	11.25	-4.018	32.0	0.0	7.1	3.2	0.0	0.7	0.1	21.9	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
512	IC	8	11.00	-3.996	32.0	0.0	7.1	3.2	0.0	0.7	0.1	21.9	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
513	IC	8	10.75	-3.975	32.0	0.0	7.1	3.2	0.0	0.7	0.1	21.8	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
514	IC	8	10.50	-3.954	32.0	0.0	7.1	3.2	0.0	0.7	0.1	21.8	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
515	IC	8	10.25	-3.932	32.0	0.0	7.0	3.2	0.0	0.7	0.1	21.8	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
516	IC	8	10.00	-3.911	32.0	0.0	7.0	3.2	0.0	0.7	0.1	21.8	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
517	IC	8	9.75	-3.889	32.0	0.0	7.0	3.3	0.0	0.7	0.1	21.8	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
518	IC	8	9.50	-3.868	32.0	0.0	6.9	3.3	0.0	0.6	0.1	21.8	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
519	IC	8	9.25	-3.846	32.1	0.0	6.9	3.3	0.0	0.6	0.1	21.7	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
520	IC	8	9.00	-3.825	32.1	0.0	6.9	3.3	0.0	0.6	0.1	21.7	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
521	IC	8	8.75	-3.804	32.1	0.0	6.8	3.3	0.0	0.6	0.1	21.7	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
522	IC	8	8.50	-3.782	32.1	0.0	6.8	3.4	0.0	0.6	0.1	21.7	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
523	IC	8	8.25	-3.761	32.1	0.0	6.8	3.4	0.0	0.6	0.1	21.7	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
524	IC	8	8.00	-3.739	32.1	0.0	6.8	3.5	0.0	0.6	0.1	21.6	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
WASTELOAD # 525 (Bayou Bleu North) ENTERS HERE																									
525	IC	8	7.75	-3.191	32.1	0.0	6.8	3.5	0.0	0.6	0.1	21.6	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
526	IC	8	7.50	-3.170	32.1	0.0	6.9	3.4	0.0	0.6	0.1	21.6	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
527	IC	8	7.25	-3.148	32.1	0.0	7.0	3.3	0.0	0.6	0.0	21.6	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.85
528	IC	8	7.00	-3.127	32.1	0.0	7.1	3.3	0.0	0.6	0.0	21.6	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.86
529	IC	8	6.75	-3.106	32.1	0.0	7.1	3.2	0.0	0.5	0.0	21.5	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.86
530	IC	8	6.50	-3.084	32.1	0.0	7.2	3.2	0.0	0.5	0.0	21.5	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.86
531	IC	8	6.25	-3.063	32.1	0.0	7.2	3.2	0.0	0.5	0.0	21.5	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.86

EXPANDED CAPSULE SUMMARY FOR ICWW

												ADVEC	MEAN	DO	REAER	BOD1	BOD1	BOD2	BOD2	NH3					
IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	VELO	VELO	SAT	RATE	DECA	SETT	DECA	SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
532	IC	8	6.00	-3.041	32.1	0.0	7.1	3.2	0.0	0.5	0.0	21.5	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.86

533	IC	8	5.75	-3.020	32.1	0.0	7.1	3.2	0.0	0.5	0.0	21.5	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.86
534	IC	8	5.50	-2.999	32.1	0.0	7.1	3.2	0.0	0.5	0.0	21.4	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.86
535	IC	8	5.25	-2.977	32.1	0.0	7.0	3.2	0.0	0.5	0.0	21.4	0.9	12.80	155.8	-0.001	0.001	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.86
536	IC	8	5.00	-2.956	32.1	0.0	7.0	3.2	0.0	0.4	0.0	21.4	0.9	12.80	155.8	-0.001	0.001	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.86
537	IC	8	4.75	-2.934	32.1	0.0	6.9	3.2	0.0	0.4	0.0	21.4	0.9	12.80	155.8	-0.001	0.001	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.86
538	IC	8	4.50	-2.913	32.1	0.0	6.9	3.2	0.0	0.4	0.0	21.4	0.9	12.80	155.8	-0.001	0.001	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.86
539	IC	8	4.25	-2.891	32.1	0.0	6.8	3.2	0.0	0.4	0.0	21.3	0.9	12.80	155.8	-0.001	0.001	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.86
540	IC	8	4.00	-2.870	32.1	0.0	6.7	3.2	0.0	0.4	0.0	21.3	0.9	12.80	155.8	-0.001	0.001	7.3	0.068	0.26	0.00	0.00	0.00	0.29	0.86
DIVERSION # 541 (Bayou Bleu South) LEAVES HERE																									
541	IC	8	3.75	-4.264	32.1	0.0	6.6	3.2	0.0	0.3	0.0	21.3	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.86
542	IC	8	3.50	-4.243	32.1	0.0	6.5	3.2	0.0	0.3	0.0	21.3	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.86
543	IC	8	3.25	-4.221	32.1	0.0	6.4	3.2	0.0	0.3	0.0	21.3	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.86
544	IC	8	3.00	-4.200	32.1	0.0	6.3	3.2	0.0	0.3	0.0	21.2	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.86
545	IC	8	2.75	-4.179	32.1	0.0	6.2	3.2	0.0	0.3	0.0	21.2	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.86
546	IC	8	2.50	-4.157	32.1	0.0	6.1	3.2	0.0	0.3	0.0	21.2	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.86
547	IC	8	2.25	-4.136	32.1	0.0	6.0	3.3	0.0	0.2	0.0	21.2	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.86
548	IC	8	2.00	-4.114	32.1	0.0	5.9	3.3	0.0	0.2	0.0	21.2	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.86
WASTELOAD # 549 (PS ICWW#2) ENTERS HERE																									
549	IC	8	1.75	-4.093	32.1	0.0	5.7	3.3	0.0	0.2	0.0	21.1	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.86
550	IC	8	1.50	-4.071	32.1	0.0	5.6	3.3	0.0	0.2	0.0	21.1	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.28	0.86
551	IC	8	1.25	-4.050	32.1	0.0	5.5	3.4	0.0	0.1	0.0	21.1	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.86
552	IC	8	1.00	-4.029	32.1	0.0	5.4	3.4	0.0	0.1	0.1	21.1	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.86
553	IC	8	0.75	-4.007	32.1	0.0	5.2	3.4	0.0	0.1	0.1	21.1	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.86
554	IC	8	0.50	-3.986	32.1	0.0	5.1	3.5	0.0	0.1	0.1	21.0	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.86
555	IC	8	0.25	-3.964	32.1	0.0	5.0	3.6	0.0	0.0	0.1	21.0	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.86
556	IC	8	0.00	-3.943	32.1	0.0	5.0	3.7	0.0	0.0	0.1	21.0	0.9	12.80	155.8	-0.002	0.002	7.3	0.068	0.26	0.00	0.00	0.00	0.27	0.86

EXPANDED CAPSULE SUMMARY FOR Bayou Black

								ADVEC	MEAN	DO	REAER	BOD1	BOD1	BOD2	BOD2	NH3									
IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	VELO	VELO	SAT	RATE	DECA	SETT	DECA	SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
225	BB	5	44.75	4.587	32.1	0.0	5.0	3.4	0.0	1.4	0.3	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.42	0.86
226	BB	5	44.50	4.591	32.1	0.0	5.1	3.0	0.0	1.4	0.2	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.42	0.86
227	BB	5	44.25	4.595	32.1	0.0	5.3	2.7	0.0	1.3	0.2	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.42	0.86
228	BB	5	44.00	4.599	32.1	0.0	5.5	2.3	0.0	1.3	0.2	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.42	0.86
229	BB	5	43.75	4.603	32.1	0.0	5.7	2.1	0.0	1.3	0.2	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.43	0.86
230	BB	5	43.50	4.607	32.1	0.0	6.0	1.8	0.0	1.3	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.43	0.86
231	BB	5	43.25	4.611	32.1	0.0	6.3	1.6	0.0	1.3	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.43	0.86
232	BB	5	43.00	4.615	32.1	0.0	6.5	1.4	0.0	1.3	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.44	0.86
233	BB	5	42.75	4.619	32.1	0.0	6.8	1.3	0.0	1.2	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.44	0.86
234	BB	5	42.50	4.623	32.1	0.0	7.1	1.1	0.0	1.2	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.44	0.85
235	BB	5	42.25	4.627	32.1	0.0	7.4	1.0	0.0	1.2	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
236	BB	5	42.00	4.631	32.1	0.0	7.6	0.9	0.0	1.2	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
237	BB	5	41.75	4.635	32.0	0.0	7.9	0.8	0.0	1.2	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
238	BB	5	41.50	4.639	32.0	0.0	8.1	0.7	0.0	1.2	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
239	BB	5	41.25	4.643	32.0	0.0	8.4	0.7	0.0	1.1	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
240	BB	5	41.00	4.647	32.0	0.0	8.6	0.6	0.0	1.1	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
241	BB	5	40.75	4.651	32.0	0.0	8.8	0.5	0.0	1.1	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
242	BB	5	40.50	4.655	32.0	0.0	9.0	0.5	0.0	1.1	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
243	BB	5	40.25	4.659	32.0	0.0	9.2	0.5	0.0	1.1	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
244	BB	5	40.00	4.663	32.0	0.0	9.3	0.4	0.0	1.1	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85

245	BB	5	39.75	4.667	32.0	0.0	9.5	0.4	0.0	1.1	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
246	BB	5	39.50	4.671	32.0	0.0	9.6	0.4	0.0	1.0	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
247	BB	5	39.25	4.675	32.0	0.0	9.8	0.3	0.0	1.0	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
248	BB	5	39.00	4.679	32.0	0.0	9.9	0.3	0.0	1.0	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
249	BB	5	38.75	4.683	32.0	0.0	10.0	0.3	0.0	1.0	0.1	25.0	0.2	4.57	196.7	0.005	0.005	7.3	0.191	0.26	0.00	0.00	0.00	0.45	0.85
250	BB	6	38.50	4.686	32.0	0.0	10.0	0.3	0.0	1.0	0.1	25.7	0.0	1.16	31.2	0.130	0.130	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
251	BB	6	38.25	4.689	32.0	0.0	9.9	0.4	0.0	1.0	0.1	26.4	0.0	1.16	31.2	0.130	0.130	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
252	BB	6	38.00	4.692	32.0	0.0	9.9	0.4	0.0	1.0	0.1	27.1	0.0	1.16	31.2	0.130	0.130	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
253	BB	6	37.75	4.694	32.0	0.0	9.8	0.5	0.0	1.0	0.1	27.9	0.0	1.16	31.2	0.130	0.130	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
254	BB	6	37.50	4.697	32.0	0.0	9.8	0.5	0.0	1.0	0.1	28.6	0.0	1.16	31.2	0.130	0.130	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
255	BB	6	37.25	4.700	32.0	0.0	9.7	0.5	0.0	1.0	0.1	29.3	0.0	1.16	31.2	0.130	0.130	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
256	BB	6	37.00	4.703	32.0	0.0	9.7	0.6	0.0	1.0	0.1	30.0	0.0	1.16	31.2	0.130	0.130	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
257	BB	6	36.75	4.706	32.0	0.0	9.6	0.6	0.0	1.0	0.1	30.7	0.0	1.16	31.2	0.130	0.130	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
258	BB	6	36.50	4.709	32.0	0.0	9.6	0.7	0.0	1.0	0.1	31.4	0.0	1.16	31.2	0.130	0.130	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
259	BB	6	36.25	4.712	32.0	0.0	9.5	0.7	0.0	1.0	0.1	32.1	0.0	1.16	31.2	0.130	0.130	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
WASTELOAD # 260 (LAG531469) ENTERS HERE																										
260	BB	6	36.00	4.715	32.0	0.0	9.5	0.8	0.0	1.0	0.1	32.9	0.0	1.16	31.2	0.130	0.130	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
261	BB	6	35.75	4.717	32.0	0.0	9.4	0.8	0.0	1.0	0.1	33.6	0.0	1.16	31.2	0.130	0.130	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
262	BB	6	35.50	4.720	32.0	0.0	9.4	0.8	0.0	1.0	0.1	34.3	0.0	1.16	31.2	0.131	0.131	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
263	BB	6	35.25	4.723	32.0	0.0	9.4	0.9	0.0	1.0	0.1	35.0	0.0	1.16	31.2	0.131	0.131	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
264	BB	6	35.00	4.726	32.0	0.0	9.3	0.9	0.0	1.0	0.1	35.7	0.0	1.16	31.2	0.131	0.131	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
265	BB	6	34.75	4.729	32.0	0.0	9.3	0.9	0.0	1.0	0.1	36.4	0.0	1.16	31.2	0.131	0.131	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
266	BB	6	34.50	4.732	32.0	0.0	9.3	1.0	0.0	1.0	0.1	37.1	0.0	1.16	31.2	0.131	0.131	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
267	BB	6	34.25	4.735	32.0	0.0	9.2	1.0	0.0	1.0	0.1	37.9	0.0	1.16	31.2	0.131	0.131	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
WASTELOAD # 268 (LAG540726) ENTERS HERE																										
268	BB	6	34.00	4.738	32.0	0.0	9.2	1.1	0.0	1.0	0.1	38.6	0.0	1.16	31.2	0.131	0.131	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
269	BB	6	33.75	4.740	32.0	0.0	9.2	1.1	0.0	1.0	0.1	39.3	0.0	1.16	31.2	0.131	0.131	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
270	BB	6	33.50	4.743	32.0	0.0	9.1	1.1	0.0	1.0	0.1	40.0	0.0	1.16	31.2	0.131	0.131	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
271	BB	6	33.25	4.746	32.0	0.0	9.1	1.2	0.0	1.0	0.1	40.7	0.0	1.16	31.2	0.131	0.131	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
272	BB	6	33.00	4.749	32.0	0.0	9.1	1.2	0.0	1.0	0.1	41.4	0.0	1.16	31.2	0.131	0.131	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
273	BB	6	32.75	4.752	32.0	0.0	9.0	1.2	0.0	1.0	0.1	42.1	0.0	1.16	31.2	0.131	0.131	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
274	BB	6	32.50	4.755	32.0	0.0	9.0	1.3	0.0	1.0	0.1	42.9	0.0	1.16	31.2	0.131	0.131	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
275	BB	6	32.25	4.758	32.0	0.0	9.0	1.3	0.0	1.0	0.1	43.6	0.0	1.16	31.2	0.132	0.132	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
276	BB	6	32.00	4.760	32.0	0.0	9.0	1.3	0.0	1.0	0.1	44.3	0.0	1.16	31.2	0.132	0.132	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
277	BB	6	31.75	4.763	32.0	0.0	8.9	1.4	0.0	1.0	0.1	45.0	0.0	1.16	31.2	0.132	0.132	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
WASTELOAD # 278 (PS Black Bayou#1) ENTERS HERE																										
278	BB	6	31.50	4.768	32.0	0.0	8.9	1.4	0.0	1.0	0.1	45.7	0.0	1.16	31.2	0.132	0.132	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
279	BB	6	31.25	4.771	32.0	0.0	8.9	1.5	0.0	1.0	0.1	46.4	0.0	1.16	31.2	0.132	0.132	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
280	BB	6	31.00	4.774	32.0	0.0	8.9	1.5	0.0	1.0	0.1	47.1	0.0	1.16	31.2	0.132	0.132	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
281	BB	6	30.75	4.777	32.0	0.0	8.9	1.5	0.0	1.0	0.1	47.9	0.0	1.16	31.2	0.132	0.132	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
282	BB	6	30.50	4.779	32.0	0.0	8.8	1.6	0.0	1.0	0.1	48.6	0.0	1.16	31.2	0.132	0.132	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
283	BB	6	30.25	4.782	32.0	0.0	8.8	1.6	0.0	1.0	0.1	49.3	0.0	1.16	31.2	0.132	0.132	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
284	BB	6	30.00	4.785	32.0	0.0	8.8	1.6	0.0	1.0	0.1	50.0	0.0	1.16	31.2	0.132	0.132	7.3	0.751	0.26	0.00	0.00	0.00	0.45	1.49
285	BB	7	29.75	4.787	32.0	0.0	8.8	1.7	0.0	1.0	0.1	49.8	0.0	1.16	31.2	0.132	0.132	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
286	BB	7	29.50	4.788	32.0	0.0	8.7	1.7	0.0	1.0	0.1	49.6	0.0	1.16	31.2	0.132	0.132	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
287	BB	7	29.25	4.789	32.0	0.0	8.7	1.7	0.0	1.0	0.1	49.3	0.0	1.16	31.2	0.132	0.132	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
288	BB	7	29.00	4.791	32.0	0.0	8.6	1.7	0.0	1.0	0.1	49.1	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
289	BB	7	28.75	4.792	32.0	0.0	8.6	1.7	0.0	1.0	0.1	48.9	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
290	BB	7	28.50	4.794	32.0	0.0	8.6	1.7	0.0	1.0	0.1	48.7	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
291	BB	7	28.25	4.795	32.0	0.0	8.5	1.7	0.0	1.0	0.1	48.5	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77

WASTELOAD # 292 (PS Black Bayou#2) ENTERS HERE

292 BB 7 28.00 4.799 32.0 0.0 8.5 1.8 0.0 1.0 0.1 48.3 0.0 1.16 31.2 0.133 0.133 7.3 0.751 0.29 0.00 0.00 0.00 0.45 2.77
293 BB 7 27.75 4.800 32.0 0.0 8.4 1.8 0.0 1.0 0.1 48.0 0.0 1.16 31.2 0.133 0.133 7.3 0.751 0.29 0.00 0.00 0.00 0.45 2.77
294 BB 7 27.50 4.802 32.0 0.0 8.4 1.8 0.0 1.0 0.1 47.8 0.0 1.16 31.2 0.133 0.133 7.3 0.751 0.29 0.00 0.00 0.00 0.45 2.77

EXPANDED CAPSULE SUMMARY FOR Bayou Black

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	DO REAER	BOD1 WIDTH	BOD1 VELO	BOD2 VELO	BOD2 SAT	NH3 RATE	DECA SETT	DECA SETT	DECA SOD
		km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	g/m²/d
295	BB 7	27.25	4.803	32.0	0.0	8.4	1.8	0.0	1.0	0.1	47.6	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
296	BB 7	27.00	4.805	32.0	0.0	8.3	1.8	0.0	1.0	0.1	47.4	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
297	BB 7	26.75	4.806	32.0	0.0	8.3	1.8	0.0	1.0	0.1	47.2	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
298	BB 7	26.50	4.808	32.0	0.0	8.3	1.8	0.0	1.0	0.1	47.0	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
299	BB 7	26.25	4.809	32.0	0.0	8.2	1.8	0.0	1.0	0.1	46.8	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
300	BB 7	26.00	4.810	32.0	0.0	8.2	1.8	0.0	1.0	0.1	46.5	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
301	BB 7	25.75	4.812	32.0	0.0	8.1	1.8	0.0	1.0	0.1	46.3	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
302	BB 7	25.50	4.813	32.0	0.0	8.1	1.9	0.0	1.0	0.1	46.1	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
303	BB 7	25.25	4.815	32.0	0.0	8.1	1.9	0.0	1.0	0.1	45.9	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.77
304	BB 7	25.00	4.816	32.0	0.0	8.0	1.9	0.0	1.0	0.1	45.7	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.76
305	BB 7	24.75	4.818	32.0	0.0	8.0	1.9	0.0	1.0	0.1	45.5	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.76
306	BB 7	24.50	4.819	32.0	0.0	8.0	1.9	0.0	1.0	0.1	45.2	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.76
307	BB 7	24.25	4.820	32.0	0.0	7.9	1.9	0.0	1.0	0.1	45.0	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.76
308	BB 7	24.00	4.822	32.0	0.0	7.9	1.9	0.0	1.0	0.1	44.8	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.76
309	BB 7	23.75	4.823	32.0	0.0	7.9	1.9	0.0	1.0	0.1	44.6	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.76
310	BB 7	23.50	4.825	32.0	0.0	7.8	1.9	0.0	1.0	0.1	44.4	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.76
311	BB 7	23.25	4.826	32.0	0.0	7.8	1.9	0.0	1.0	0.1	44.2	0.0	1.16	31.2	0.133	0.133	7.3	0.751	0.29	0.00	0.00	0.00	0.45	2.76

WASTELOAD # 312 (LAG541223) ENTERS HERE

312 BB 7 23.00 4.829 32.0 0.0 7.8 2.0 0.0 1.0 0.1 43.9 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.45 2.76
313 BB 7 22.75 4.830 32.0 0.0 7.7 2.0 0.0 1.0 0.1 43.7 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.45 2.76
314 BB 7 22.50 4.831 32.0 0.0 7.7 2.0 0.0 1.0 0.1 43.5 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.45 2.76
315 BB 7 22.25 4.833 32.0 0.0 7.7 2.0 0.0 1.0 0.1 43.3 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.45 2.76
316 BB 7 22.00 4.834 32.0 0.0 7.6 2.0 0.0 1.0 0.1 43.1 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.45 2.76
317 BB 7 21.75 4.836 32.0 0.0 7.6 2.0 0.0 1.0 0.1 42.8 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.45 2.76
318 BB 7 21.50 4.837 32.0 0.0 7.6 2.0 0.0 1.0 0.1 42.6 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.45 2.76
319 BB 7 21.25 4.839 32.0 0.0 7.6 2.0 0.0 1.0 0.1 42.4 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
320 BB 7 21.00 4.840 32.0 0.0 7.5 2.0 0.0 1.0 0.1 42.2 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
321 BB 7 20.75 4.841 32.0 0.0 7.5 2.0 0.0 1.0 0.1 42.0 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
322 BB 7 20.50 4.843 32.0 0.0 7.5 2.0 0.0 1.0 0.1 41.8 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
323 BB 7 20.25 4.844 32.0 0.0 7.4 2.1 0.0 1.0 0.1 41.5 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
324 BB 7 20.00 4.846 32.0 0.0 7.4 2.1 0.0 1.0 0.1 41.3 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
325 BB 7 19.75 4.847 32.0 0.0 7.4 2.1 0.0 1.0 0.1 41.1 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
326 BB 7 19.50 4.849 32.0 0.0 7.3 2.1 0.0 1.0 0.1 40.9 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
327 BB 7 19.25 4.850 32.0 0.0 7.3 2.1 0.0 1.0 0.1 40.7 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
328 BB 7 19.00 4.851 32.0 0.0 7.3 2.1 0.0 1.0 0.1 40.5 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
329 BB 7 18.75 4.853 32.0 0.0 7.3 2.1 0.0 1.0 0.1 40.2 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
330 BB 7 18.50 4.854 32.0 0.0 7.2 2.1 0.0 1.0 0.1 40.0 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76

WASTELOAD # 331 (PS Black Bayou#3) ENTERS HERE

331 BB 7 18.25 4.856 32.0 0.0 7.2 2.1 0.0 1.0 0.1 39.8 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
332 BB 7 18.00 4.857 32.0 0.0 7.2 2.1 0.0 1.0 0.1 39.6 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
333 BB 7 17.75 4.859 32.0 0.0 7.1 2.1 0.0 1.0 0.1 39.4 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
334 BB 7 17.50 4.860 32.0 0.0 7.1 2.1 0.0 1.0 0.1 39.2 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76

335 BB 7 17.25 4.862 32.0 0.0 7.1 2.2 0.0 1.0 0.1 39.0 0.0 1.16 31.2 0.134 0.134 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
336 BB 7 17.00 4.863 32.0 0.0 7.1 2.2 0.0 1.0 0.1 38.7 0.0 1.16 31.2 0.135 0.135 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
337 BB 7 16.75 4.865 32.0 0.0 7.0 2.2 0.0 1.0 0.1 38.5 0.0 1.16 31.2 0.135 0.135 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
338 BB 7 16.50 4.866 32.0 0.0 7.0 2.2 0.0 1.0 0.1 38.3 0.0 1.16 31.2 0.135 0.135 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
WASTELOAD # 339 (LAG541317) ENTERS HERE
339 BB 7 16.25 4.868 32.0 0.0 7.0 2.2 0.0 1.0 0.1 38.1 0.0 1.16 31.2 0.135 0.135 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
340 BB 7 16.00 4.869 32.0 0.0 7.0 2.2 0.0 1.0 0.1 37.9 0.0 1.16 31.2 0.135 0.135 7.3 0.751 0.29 0.00 0.00 0.00 0.44 2.76
341 BB 7 15.75 4.871 32.0 0.0 6.9 2.2 0.0 1.0 0.1 37.7 0.0 1.16 31.2 0.135 0.135 7.3 0.750 0.29 0.00 0.00 0.00 0.44 2.76
342 BB 7 15.50 4.872 32.0 0.0 6.9 2.2 0.0 1.0 0.1 37.4 0.0 1.16 31.2 0.135 0.135 7.3 0.750 0.29 0.00 0.00 0.00 0.44 2.76
343 BB 7 15.25 4.874 32.0 0.0 6.9 2.2 0.0 1.0 0.1 37.2 0.0 1.16 31.2 0.135 0.135 7.3 0.750 0.29 0.00 0.00 0.00 0.44 2.76
344 BB 7 15.00 4.875 32.0 0.0 6.9 2.2 0.0 1.0 0.1 37.0 0.0 1.16 31.2 0.135 0.135 7.3 0.750 0.29 0.00 0.00 0.00 0.44 2.76
345 BB 7 14.75 4.877 31.9 0.0 6.8 2.2 0.0 1.0 0.1 36.8 0.0 1.16 31.2 0.135 0.135 7.3 0.750 0.29 0.00 0.00 0.00 0.44 2.76
346 BB 7 14.50 4.878 31.9 0.0 6.8 2.2 0.0 1.0 0.1 36.6 0.0 1.16 31.2 0.135 0.135 7.3 0.750 0.29 0.00 0.00 0.00 0.44 2.76
347 BB 7 14.25 4.879 31.9 0.0 6.8 2.3 0.0 1.0 0.1 36.3 0.0 1.16 31.2 0.135 0.135 7.3 0.750 0.29 0.00 0.00 0.00 0.44 2.76
348 BB 7 14.00 4.881 31.9 0.0 6.8 2.3 0.0 1.0 0.1 36.1 0.0 1.16 31.2 0.135 0.135 7.3 0.750 0.29 0.00 0.00 0.00 0.44 2.76
349 BB 7 13.75 4.882 31.9 0.0 6.7 2.3 0.0 1.0 0.1 35.9 0.0 1.16 31.2 0.135 0.135 7.3 0.750 0.29 0.00 0.00 0.00 0.44 2.76
350 BB 7 13.50 4.884 31.9 0.0 6.7 2.3 0.0 1.0 0.1 35.7 0.0 1.16 31.2 0.135 0.135 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
351 BB 7 13.25 4.885 31.9 0.0 6.7 2.3 0.0 1.0 0.1 35.5 0.0 1.16 31.2 0.135 0.135 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
WASTELOAD # 352 (LA0111236) ENTERS HERE
352 BB 7 13.00 4.904 31.9 0.0 6.7 2.5 0.0 1.0 0.1 35.3 0.0 1.16 31.2 0.136 0.136 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
353 BB 7 12.75 4.906 31.9 0.0 6.6 2.5 0.0 1.0 0.1 35.0 0.0 1.16 31.2 0.136 0.136 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
354 BB 7 12.50 4.907 31.9 0.0 6.6 2.5 0.0 1.0 0.1 34.8 0.0 1.16 31.2 0.136 0.136 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
355 BB 7 12.25 4.909 31.9 0.0 6.6 2.5 0.0 1.0 0.1 34.6 0.0 1.16 31.2 0.136 0.136 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
356 BB 7 12.00 4.910 31.9 0.0 6.5 2.5 0.0 1.0 0.1 34.4 0.0 1.16 31.2 0.136 0.136 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
357 BB 7 11.75 4.911 31.9 0.0 6.5 2.5 0.0 1.0 0.1 34.2 0.0 1.16 31.2 0.136 0.136 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
358 BB 7 11.50 4.913 31.9 0.0 6.5 2.5 0.0 1.0 0.1 34.0 0.0 1.16 31.2 0.136 0.136 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
359 BB 7 11.25 4.914 31.9 0.0 6.5 2.5 0.0 1.0 0.1 33.8 0.0 1.16 31.2 0.136 0.136 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
360 BB 7 11.00 4.916 31.9 0.0 6.4 2.5 0.0 1.0 0.1 33.5 0.0 1.16 31.2 0.136 0.136 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
361 BB 7 10.75 4.917 31.9 0.0 6.4 2.5 0.0 1.0 0.1 33.3 0.0 1.16 31.2 0.136 0.136 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
362 BB 7 10.50 4.919 31.9 0.0 6.4 2.5 0.0 1.0 0.1 33.1 0.0 1.16 31.2 0.136 0.136 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
363 BB 7 10.25 4.920 31.9 0.0 6.4 2.5 0.0 1.0 0.1 32.9 0.0 1.16 31.2 0.136 0.136 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76
364 BB 7 10.00 4.922 31.9 0.0 6.3 2.5 0.0 1.0 0.1 32.7 0.0 1.16 31.2 0.136 0.136 7.3 0.750 0.29 0.00 0.00 0.00 0.43 2.76

EXPANDED CAPSULE SUMMARY FOR Bayou Black

IOR	REACH	DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	MEAN WIDTH	DO VELO	REAER VELO	BOD1 SAT	BOD1 RATE	BOD1 DECA	BOD2 SETT	BOD2 DECA	BOD2 SETT	NH3 DECA	SOD
		km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
365	BB 7	9.75	4.923	31.9	0.0	6.3	2.5	0.0	1.0	0.1	32.5	0.0	1.16	31.2	0.136	0.136	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.76
366	BB 7	9.50	4.924	31.9	0.0	6.3	2.6	0.0	1.0	0.1	32.2	0.0	1.16	31.2	0.136	0.136	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.76
367	BB 7	9.25	4.926	31.9	0.0	6.3	2.6	0.0	1.0	0.1	32.0	0.0	1.16	31.2	0.136	0.136	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.76
368	BB 7	9.00	4.927	31.9	0.0	6.2	2.6	0.0	1.0	0.1	31.8	0.0	1.16	31.2	0.136	0.136	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.76
WASTELOAD # 369 (PS Hanson Canal) ENTERS HERE																								
369	BB 7	8.75	4.930	31.9	0.0	6.2	2.6	0.0	1.0	0.1	31.6	0.0	1.16	31.2	0.136	0.136	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.76
370	BB 7	8.50	4.932	31.9	0.0	6.2	2.6	0.0	1.0	0.1	31.4	0.0	1.16	31.2	0.136	0.136	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.76
371	BB 7	8.25	4.933	31.9	0.0	6.2	2.6	0.0	1.0	0.1	31.1	0.0	1.16	31.2	0.136	0.136	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.76
WASTELOAD # 372 (LA0074331) ENTERS HERE																								
372	BB 7	8.00	4.935	31.9	0.0	6.1	2.6	0.0	1.0	0.1	30.9	0.0	1.16	31.2	0.136	0.136	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.76
WASTELOAD # 373 (Minors Canal) ENTERS HERE																								
373	BB 7	7.75	5.177	31.9	0.0	6.3	2.8	0.0	1.0	0.1	30.7	0.0	1.16	31.2	0.143	0.143	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
374	BB 7	7.50	5.178	31.9	0.0	6.3	2.8	0.0	1.0	0.1	30.5	0.0	1.16	31.2	0.143	0.143	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
375	BB 7	7.25	5.180	31.9	0.0	6.3	2.8	0.0	1.0	0.1	30.3	0.0	1.16	31.2	0.143	0.143	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75

376	BB	7	7.00	5.181	31.9	0.0	6.2	2.8	0.0	1.0	0.1	30.1	0.0	1.16	31.2	0.143	0.143	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
377	BB	7	6.75	5.182	31.9	0.0	6.2	2.8	0.0	1.0	0.1	29.9	0.0	1.16	31.2	0.143	0.143	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
378	BB	7	6.50	5.184	31.9	0.0	6.2	2.8	0.0	1.0	0.1	29.6	0.0	1.16	31.2	0.143	0.143	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
379	BB	7	6.25	5.185	31.9	0.0	6.2	2.8	0.0	1.0	0.1	29.4	0.0	1.16	31.2	0.143	0.143	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
380	BB	7	6.00	5.187	31.9	0.0	6.1	2.8	0.0	1.0	0.1	29.2	0.0	1.16	31.2	0.143	0.143	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
381	BB	7	5.75	5.188	31.9	0.0	6.1	2.8	0.0	1.0	0.1	29.0	0.0	1.16	31.2	0.143	0.143	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
382	BB	7	5.50	5.190	31.9	0.0	6.1	2.8	0.0	1.0	0.1	28.8	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
383	BB	7	5.25	5.191	31.9	0.0	6.1	2.8	0.0	1.0	0.1	28.5	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.43	2.75
384	BB	7	5.00	5.192	31.9	0.0	6.0	2.8	0.0	1.0	0.1	28.3	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
385	BB	7	4.75	5.194	31.9	0.0	6.0	2.8	0.0	1.0	0.1	28.1	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
386	BB	7	4.50	5.195	31.9	0.0	6.0	2.8	0.0	1.0	0.1	27.9	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
387	BB	7	4.25	5.197	31.9	0.0	6.0	2.9	0.0	1.0	0.1	27.7	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
388	BB	7	4.00	5.198	31.9	0.0	5.9	2.9	0.0	1.0	0.1	27.5	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
389	BB	7	3.75	5.200	31.9	0.0	5.9	2.9	0.0	1.0	0.1	27.2	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
390	BB	7	3.50	5.201	31.9	0.0	5.9	2.9	0.0	1.0	0.1	27.0	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
391	BB	7	3.25	5.202	31.9	0.0	5.9	2.9	0.0	1.0	0.1	26.8	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
392	BB	7	3.00	5.204	31.9	0.0	5.8	2.9	0.0	1.0	0.1	26.6	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
393	BB	7	2.75	5.205	31.9	0.0	5.8	2.9	0.0	1.0	0.1	26.4	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
394	BB	7	2.50	5.207	31.9	0.0	5.8	2.9	0.0	1.0	0.1	26.2	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
395	BB	7	2.25	5.208	31.9	0.0	5.8	2.9	0.0	1.0	0.1	25.9	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
396	BB	7	2.00	5.210	31.9	0.0	5.8	2.9	0.0	1.0	0.1	25.7	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
397	BB	7	1.75	5.211	31.9	0.0	5.7	2.9	0.0	1.0	0.1	25.5	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
398	BB	7	1.50	5.213	31.9	0.0	5.7	2.9	0.0	1.0	0.1	25.3	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
399	BB	7	1.25	5.214	31.9	0.0	5.7	2.9	0.0	1.0	0.1	25.1	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
400	BB	7	1.00	5.215	31.9	0.0	5.7	2.9	0.0	1.0	0.1	24.9	0.0	1.16	31.2	0.144	0.144	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
WASTELOAD # 401 (Little Bayou Black) ENTERS HERE																									
401	BB	7	0.75	5.717	31.9	0.0	5.6	3.5	0.0	1.1	0.1	24.6	0.0	1.16	31.2	0.158	0.158	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
WASTELOAD # 402 (PS Lil Bayou Black) ENTERS HERE																									
402	BB	7	0.50	5.719	31.9	0.0	5.6	3.5	0.0	1.1	0.1	24.4	0.0	1.16	31.2	0.158	0.158	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
403	BB	7	0.25	5.720	31.9	0.0	5.5	3.5	0.0	1.1	0.1	24.2	0.0	1.16	31.2	0.158	0.158	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75
404	BB	7	0.00	5.722	31.9	0.0	5.5	3.5	0.0	1.1	0.1	24.0	0.0	1.16	31.2	0.158	0.158	7.3	0.750	0.29	0.00	0.00	0.00	0.42	2.75

SPECIAL REPORT: ICWW

WATER QUALITY CONSTITUENT VALUES

ELEM	ENDING	TEMP	SALN	CM-I	CM-II	DO	BOD1	BOD2	EBOD#1	EBOD#2	ORG-N	NH3-N	NO3-N	TOTN	PHOS	CHL A	MACRO	COLI	NCM
NO.	km	deg C	ppt	*	*	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	**		#/100mL	*
1	93.750	31.22	0.0	0.0	0.0	6.47	2.55	0.00	2.55	0.00	1.30	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
2	93.500	31.24	0.0	0.0	0.0	6.47	2.47	0.00	2.47	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
3	93.250	31.26	0.0	0.0	0.0	6.49	2.42	0.00	2.42	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
4	93.000	31.28	0.0	0.0	0.0	6.51	2.38	0.00	2.38	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
5	92.750	31.31	0.0	0.0	0.0	6.53	2.36	0.00	2.36	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
6	92.500	31.33	0.0	0.0	0.0	6.55	2.34	0.00	2.34	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
7	92.250	31.35	0.0	0.0	0.0	6.58	2.33	0.00	2.33	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
8	92.000	31.37	0.0	0.0	0.0	6.59	2.32	0.00	2.32	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
9	91.750	31.39	0.0	0.0	0.0	6.61	2.31	0.00	2.31	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
10	91.500	31.41	0.0	0.0	0.0	6.63	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
11	91.250	31.43	0.0	0.0	0.0	6.64	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
12	91.000	31.45	0.0	0.0	0.0	6.65	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
13	90.750	31.47	0.0	0.0	0.0	6.66	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
14	90.500	31.49	0.0	0.0	0.0	6.67	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
15	90.250	31.52	0.0	0.0	0.0	6.68	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00

16	90.000	31.54	0.0	0.0	0.0	6.69	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
17	89.750	31.56	0.0	0.0	0.0	6.69	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
18	89.500	31.58	0.0	0.0	0.0	6.70	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
19	89.250	31.60	0.0	0.0	0.0	6.70	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
20	89.000	31.62	0.0	0.0	0.0	6.71	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
21	88.750	31.64	0.0	0.0	0.0	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
22	88.500	31.66	0.0	0.0	0.0	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
23	88.250	31.68	0.0	0.0	0.0	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
24	88.000	31.71	0.0	0.0	0.0	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.42	0.00	20.0	0.0	0.	0.00
25	87.750	31.73	0.0	0.0	0.0	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
26	87.500	31.75	0.0	0.0	0.0	6.70	2.26	0.00	2.26	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
27	87.250	31.77	0.0	0.0	0.0	6.70	2.26	0.00	2.26	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
28	87.000	31.79	0.0	0.0	0.0	6.68	2.26	0.00	2.26	0.00	1.31	0.12	0.00	1.43	0.00	20.0	0.0	0.	0.00
29	86.750	31.81	0.0	0.0	0.0	6.66	2.26	0.00	2.26	0.00	1.32	0.12	0.00	1.44	0.00	20.0	0.0	0.	0.00
30	86.500	31.83	0.0	0.0	0.0	6.64	2.26	0.00	2.26	0.00	1.32	0.12	0.00	1.44	0.00	20.0	0.0	0.	0.00
31	86.250	31.85	0.0	0.0	0.0	6.60	2.27	0.00	2.27	0.00	1.33	0.12	0.00	1.45	0.00	20.0	0.0	0.	0.00
32	86.000	31.87	0.0	0.0	0.0	6.54	2.28	0.00	2.28	0.00	1.34	0.12	0.00	1.46	0.00	20.0	0.0	0.	0.00
33	85.750	31.89	0.0	0.0	0.0	6.46	2.29	0.00	2.29	0.00	1.35	0.12	0.00	1.47	0.00	20.0	0.0	0.	0.00
34	85.500	31.92	0.0	0.0	0.0	6.35	2.33	0.00	2.33	0.00	1.36	0.12	0.00	1.49	0.00	20.0	0.0	0.	0.00
35	85.250	31.94	0.0	0.0	0.0	6.20	2.38	0.00	2.38	0.00	1.39	0.12	0.00	1.51	0.00	20.0	0.0	0.	0.00
36	85.000	31.96	0.0	0.0	0.0	6.00	2.48	0.00	2.48	0.00	1.41	0.12	0.00	1.54	0.00	20.0	0.0	0.	0.00
37	84.750	31.98	0.0	0.0	0.0	5.75	2.66	0.00	2.66	0.00	1.45	0.12	0.00	1.57	0.00	20.0	0.0	0.	0.00
38	84.500	32.00	0.0	0.0	0.0	5.43	2.97	0.00	2.97	0.00	1.51	0.12	0.00	1.62	0.00	20.0	0.0	0.	0.00
39	84.250	32.00	0.0	0.0	0.0	5.05	3.55	0.00	3.55	0.00	1.58	0.10	0.00	1.69	0.00	20.0	0.0	0.	0.00
40	84.000	32.00	0.0	0.0	0.0	5.04	3.50	0.00	3.50	0.00	1.58	0.11	0.00	1.69	0.00	20.0	0.0	0.	0.00
41	83.750	32.01	0.0	0.0	0.0	5.03	3.46	0.00	3.46	0.00	1.58	0.11	0.00	1.68	0.00	20.0	0.0	0.	0.00
42	83.500	32.01	0.0	0.0	0.0	5.02	3.41	0.00	3.41	0.00	1.57	0.11	0.00	1.68	0.00	20.0	0.0	0.	0.00
43	83.250	32.01	0.0	0.0	0.0	5.02	3.37	0.00	3.37	0.00	1.57	0.11	0.00	1.68	0.00	20.0	0.0	0.	0.00
44	83.000	32.01	0.0	0.0	0.0	5.01	3.33	0.00	3.33	0.00	1.56	0.11	0.00	1.68	0.00	20.0	0.0	0.	0.00
45	82.750	32.01	0.0	0.0	0.0	5.01	3.29	0.00	3.29	0.00	1.56	0.11	0.00	1.67	0.00	20.0	0.0	0.	0.00
46	82.500	32.02	0.0	0.0	0.0	5.01	3.25	0.00	3.25	0.00	1.56	0.12	0.00	1.67	0.00	20.0	0.0	0.	0.00
47	82.250	32.02	0.0	0.0	0.0	5.01	3.21	0.00	3.21	0.00	1.55	0.12	0.00	1.67	0.00	20.0	0.0	0.	0.00
48	82.000	32.02	0.0	0.0	0.0	5.02	3.18	0.00	3.18	0.00	1.55	0.12	0.00	1.67	0.00	20.0	0.0	0.	0.00
49	81.750	32.02	0.0	0.0	0.0	5.02	3.14	0.00	3.14	0.00	1.55	0.12	0.00	1.67	0.00	20.0	0.0	0.	0.00
50	81.500	32.02	0.0	0.0	0.0	5.02	3.11	0.00	3.11	0.00	1.54	0.12	0.00	1.66	0.00	20.0	0.0	0.	0.00
51	81.250	32.03	0.0	0.0	0.0	5.03	3.08	0.00	3.08	0.00	1.54	0.12	0.00	1.66	0.00	20.0	0.0	0.	0.00
52	81.000	32.03	0.0	0.0	0.0	5.04	3.05	0.00	3.05	0.00	1.54	0.12	0.00	1.66	0.00	20.0	0.0	0.	0.00
53	80.750	32.03	0.0	0.0	0.0	5.04	3.02	0.00	3.02	0.00	1.53	0.12	0.00	1.65	0.00	20.0	0.0	0.	0.00
54	80.500	32.03	0.0	0.0	0.0	5.05	2.99	0.00	2.99	0.00	1.53	0.12	0.00	1.65	0.00	20.0	0.0	0.	0.00
55	80.250	32.03	0.0	0.0	0.0	5.07	2.96	0.00	2.96	0.00	1.52	0.12	0.00	1.65	0.00	20.0	0.0	0.	0.00
56	80.000	32.03	0.0	0.0	0.0	5.13	2.93	0.00	2.93	0.00	1.51	0.12	0.00	1.63	0.00	20.0	0.0	0.	0.00
57	79.750	32.04	0.0	0.0	0.0	5.66	2.81	0.00	2.81	0.00	1.39	0.12	0.00	1.51	0.00	20.0	0.0	0.	0.00
58	79.500	32.04	0.0	0.0	0.0	7.45	2.47	0.00	2.47	0.00	1.02	0.09	0.00	1.11	0.00	20.0	0.0	0.	0.00
59	79.250	32.04	0.0	0.0	0.0	8.02	2.37	0.00	2.37	0.00	0.89	0.08	0.00	0.97	0.00	20.0	0.0	0.	0.00
60	79.000	32.04	0.0	0.0	0.0	8.18	2.34	0.00	2.34	0.00	0.86	0.08	0.00	0.93	0.00	20.0	0.0	0.	0.00
61	78.750	32.04	0.0	0.0	0.0	8.21	2.34	0.00	2.34	0.00	0.84	0.08	0.00	0.92	0.00	20.0	0.0	0.	0.00
62	78.500	32.05	0.0	0.0	0.0	8.19	2.33	0.00	2.33	0.00	0.84	0.07	0.00	0.92	0.00	20.0	0.0	0.	0.00
63	78.250	32.05	0.0	0.0	0.0	8.15	2.33	0.00	2.33	0.00	0.84	0.08	0.00	0.92	0.00	20.0	0.0	0.	0.00
64	78.000	32.05	0.0	0.0	0.0	8.11	2.33	0.00	2.33	0.00	0.85	0.08	0.00	0.92	0.00	20.0	0.0	0.	0.00
65	77.750	32.05	0.0	0.0	0.0	8.06	2.33	0.00	2.33	0.00	0.85	0.08	0.00	0.92	0.00	20.0	0.0	0.	0.00

66	77.500	32.05	0.0	0.0	0.0	8.01	2.34	0.00	2.34	0.00	0.85	0.08	0.00	0.93	0.00	20.0	0.0	0.	0.00
67	77.250	32.06	0.0	0.0	0.0	7.96	2.34	0.00	2.34	0.00	0.85	0.08	0.00	0.93	0.00	20.0	0.0	0.	0.00
68	77.000	32.06	0.0	0.0	0.0	7.91	2.34	0.00	2.34	0.00	0.86	0.08	0.00	0.93	0.00	20.0	0.0	0.	0.00
69	76.750	32.06	0.0	0.0	0.0	7.85	2.34	0.00	2.34	0.00	0.86	0.08	0.00	0.94	0.00	20.0	0.0	0.	0.00
70	76.500	32.06	0.0	0.0	0.0	7.79	2.34	0.00	2.34	0.00	0.86	0.08	0.00	0.94	0.00	20.0	0.0	0.	0.00
71	76.250	32.06	0.0	0.0	0.0	7.73	2.34	0.00	2.34	0.00	0.87	0.08	0.00	0.94	0.00	20.0	0.0	0.	0.00
72	76.000	32.07	0.0	0.0	0.0	7.67	2.35	0.00	2.35	0.00	0.87	0.08	0.00	0.95	0.00	20.0	0.0	0.	0.00
73	75.750	32.07	0.0	0.0	0.0	7.61	2.35	0.00	2.35	0.00	0.87	0.08	0.00	0.95	0.00	20.0	0.0	0.	0.00
74	75.500	32.07	0.0	0.0	0.0	7.54	2.36	0.00	2.36	0.00	0.88	0.08	0.00	0.96	0.00	20.0	0.0	0.	0.00
75	75.250	32.07	0.0	0.0	0.0	7.47	2.36	0.00	2.36	0.00	0.88	0.08	0.00	0.96	0.00	20.0	0.0	0.	0.00
76	75.000	32.07	0.0	0.0	0.0	7.40	2.37	0.00	2.37	0.00	0.88	0.08	0.00	0.96	0.00	20.0	0.0	0.	0.00
77	74.750	32.08	0.0	0.0	0.0	7.32	2.37	0.00	2.37	0.00	0.89	0.08	0.00	0.97	0.00	20.0	0.0	0.	0.00
78	74.500	32.08	0.0	0.0	0.0	7.25	2.38	0.00	2.38	0.00	0.89	0.08	0.00	0.97	0.00	20.0	0.0	0.	0.00
79	74.250	32.08	0.0	0.0	0.0	7.17	2.39	0.00	2.39	0.00	0.89	0.08	0.00	0.98	0.00	20.0	0.0	0.	0.00
80	74.000	32.08	0.0	0.0	0.0	7.09	2.40	0.00	2.40	0.00	0.90	0.08	0.00	0.98	0.00	20.0	0.0	0.	0.00
81	73.750	32.08	0.0	0.0	0.0	7.00	2.42	0.00	2.42	0.00	0.90	0.08	0.00	0.98	0.00	20.0	0.0	0.	0.00
82	73.500	32.08	0.0	0.0	0.0	6.92	2.44	0.00	2.44	0.00	0.91	0.08	0.00	0.99	0.00	20.0	0.0	0.	0.00
83	73.250	32.09	0.0	0.0	0.0	6.83	2.46	0.00	2.46	0.00	0.91	0.08	0.00	0.99	0.00	20.0	0.0	0.	0.00
84	73.000	32.09	0.0	0.0	0.0	6.75	2.48	0.00	2.48	0.00	0.92	0.08	0.00	1.00	0.00	20.0	0.0	0.	0.00
85	72.750	32.09	0.0	0.0	0.0	6.66	2.51	0.00	2.51	0.00	0.92	0.08	0.00	1.00	0.00	20.0	0.0	0.	0.00
86	72.500	32.09	0.0	0.0	0.0	6.58	2.55	0.00	2.55	0.00	0.92	0.08	0.00	1.01	0.00	20.0	0.0	0.	0.00
87	72.250	32.09	0.0	0.0	0.0	6.50	2.59	0.00	2.59	0.00	0.93	0.08	0.00	1.01	0.00	20.0	0.0	0.	0.00
88	72.000	32.10	0.0	0.0	0.0	6.42	2.63	0.00	2.63	0.00	0.93	0.08	0.00	1.02	0.00	20.0	0.0	0.	0.00
89	71.750	32.10	0.0	0.0	0.0	6.34	2.69	0.00	2.69	0.00	0.94	0.08	0.00	1.02	0.00	20.0	0.0	0.	0.00
90	71.500	32.10	0.0	0.0	0.0	6.24	2.37	0.00	2.37	0.00	0.89	0.08	0.00	0.97	0.00	20.0	0.0	0.	0.00
91	71.250	32.11	0.0	0.0	0.0	6.10	2.25	0.00	2.25	0.00	0.87	0.08	0.00	0.96	0.00	20.0	0.0	0.	0.00
92	71.000	32.11	0.0	0.0	0.0	6.05	2.22	0.00	2.22	0.00	0.87	0.08	0.00	0.95	0.00	20.0	0.0	0.	0.00
93	70.750	32.12	0.0	0.0	0.0	6.01	2.21	0.00	2.21	0.00	0.88	0.08	0.00	0.96	0.00	20.0	0.0	0.	0.00
94	70.500	32.12	0.0	0.0	0.0	5.98	2.20	0.00	2.20	0.00	0.88	0.08	0.00	0.96	0.00	20.0	0.0	0.	0.00
95	70.250	32.13	0.0	0.0	0.0	5.94	2.20	0.00	2.20	0.00	0.89	0.08	0.00	0.97	0.00	20.0	0.0	0.	0.00
96	70.000	32.13	0.0	0.0	0.0	5.91	2.20	0.00	2.20	0.00	0.89	0.08	0.00	0.98	0.00	20.0	0.0	0.	0.00
97	69.750	32.14	0.0	0.0	0.0	5.87	2.20	0.00	2.20	0.00	0.90	0.08	0.00	0.98	0.00	20.0	0.0	0.	0.00
98	69.500	32.14	0.0	0.0	0.0	5.83	2.20	0.00	2.20	0.00	0.91	0.08	0.00	0.99	0.00	20.0	0.0	0.	0.00
99	69.250	32.15	0.0	0.0	0.0	5.79	2.20	0.00	2.20	0.00	0.92	0.09	0.00	1.00	0.00	20.0	0.0	0.	0.00
100	69.000	32.15	0.0	0.0	0.0	5.74	2.20	0.00	2.20	0.00	0.92	0.09	0.00	1.01	0.00	20.0	0.0	0.	0.00
101	68.750	32.16	0.0	0.0	0.0	5.69	2.21	0.00	2.21	0.00	0.93	0.09	0.00	1.02	0.00	20.0	0.0	0.	0.00
102	68.500	32.16	0.0	0.0	0.0	5.64	2.21	0.00	2.21	0.00	0.94	0.09	0.00	1.03	0.00	20.0	0.0	0.	0.00
103	68.250	32.17	0.0	0.0	0.0	5.58	2.21	0.00	2.21	0.00	0.95	0.09	0.00	1.04	0.00	20.0	0.0	0.	0.00
104	68.000	32.17	0.0	0.0	0.0	5.52	2.22	0.00	2.22	0.00	0.96	0.09	0.00	1.05	0.00	20.0	0.0	0.	0.00
105	67.750	32.18	0.0	0.0	0.0	5.46	2.22	0.00	2.22	0.00	0.97	0.09	0.00	1.06	0.00	20.0	0.0	0.	0.00
106	67.500	32.18	0.0	0.0	0.0	5.39	2.23	0.00	2.23	0.00	0.98	0.09	0.00	1.08	0.00	20.0	0.0	0.	0.00
107	67.250	32.19	0.0	0.0	0.0	5.32	2.25	0.00	2.25	0.00	0.99	0.09	0.00	1.09	0.00	20.0	0.0	0.	0.00
108	67.000	32.19	0.0	0.0	0.0	5.26	2.27	0.00	2.27	0.00	1.01	0.10	0.00	1.10	0.00	20.0	0.0	0.	0.00
109	66.750	32.20	0.0	0.0	0.0	5.19	2.29	0.00	2.29	0.00	1.02	0.10	0.00	1.11	0.00	20.0	0.0	0.	0.00
110	66.500	32.21	0.0	0.0	0.0	5.13	2.33	0.00	2.33	0.00	1.03	0.10	0.00	1.13	0.00	20.0	0.0	0.	0.00
111	66.250	32.21	0.0	0.0	0.0	5.07	2.38	0.00	2.38	0.00	1.04	0.10	0.00	1.14	0.00	20.0	0.0	0.	0.00
112	66.000	32.22	0.0	0.0	0.0	5.03	2.45	0.00	2.45	0.00	1.06	0.10	0.00	1.16	0.00	20.0	0.0	0.	0.00
113	65.750	32.22	0.0	0.0	0.0	5.02	2.55	0.00	2.55	0.00	1.07	0.10	0.00	1.17	0.00	20.0	0.0	0.	0.00
114	65.500	32.23	0.0	0.0	0.0	5.03	2.69	0.00	2.69	0.00	1.09	0.10	0.00	1.19	0.00	20.0	0.0	0.	0.00
115	65.250	32.23	0.0	0.0	0.0	5.10	2.88	0.00	2.88	0.00	1.10	0.10	0.00	1.20	0.00	20.0	0.0	0.	0.00

116	65.000	32.24	0.0	0.0	0.0	5.25	3.14	0.00	3.14	0.00	1.12	0.10	0.00	1.22	0.00	20.0	0.0	0.	0.00
117	64.750	32.24	0.0	0.0	0.0	5.51	3.51	0.00	3.51	0.00	1.14	0.10	0.00	1.24	0.00	20.0	0.0	0.	0.00
118	64.500	32.25	0.0	0.0	0.0	5.54	2.71	0.00	2.71	0.00	1.01	0.09	0.00	1.10	0.00	20.0	0.0	0.	0.00
119	64.250	32.25	0.0	0.0	0.0	5.71	2.39	0.00	2.39	0.00	0.94	0.09	0.00	1.03	0.00	20.0	0.0	0.	0.00
120	64.000	32.26	0.0	0.0	0.0	5.85	2.27	0.00	2.27	0.00	0.90	0.08	0.00	0.98	0.00	20.0	0.0	0.	0.00
121	63.750	32.26	0.0	0.0	0.0	5.93	2.22	0.00	2.22	0.00	0.88	0.08	0.00	0.96	0.00	20.0	0.0	0.	0.00
122	63.500	32.27	0.0	0.0	0.0	5.95	2.20	0.00	2.20	0.00	0.88	0.08	0.00	0.96	0.00	20.0	0.0	0.	0.00
123	63.250	32.27	0.0	0.0	0.0	5.94	2.19	0.00	2.19	0.00	0.88	0.08	0.00	0.96	0.00	20.0	0.0	0.	0.00
124	63.000	32.28	0.0	0.0	0.0	5.89	2.19	0.00	2.19	0.00	0.89	0.08	0.00	0.97	0.00	20.0	0.0	0.	0.00
125	62.750	32.28	0.0	0.0	0.0	5.81	2.19	0.00	2.19	0.00	0.90	0.08	0.00	0.98	0.00	20.0	0.0	0.	0.00
126	62.500	32.29	0.0	0.0	0.0	5.70	2.20	0.00	2.20	0.00	0.91	0.09	0.00	1.00	0.00	20.0	0.0	0.	0.00
127	62.250	32.29	0.0	0.0	0.0	5.58	2.21	0.00	2.21	0.00	0.93	0.09	0.00	1.02	0.00	20.0	0.0	0.	0.00
128	62.000	32.30	0.0	0.0	0.0	5.43	2.23	0.00	2.23	0.00	0.96	0.09	0.00	1.05	0.00	20.0	0.0	0.	0.00
129	61.750	32.30	0.0	0.0	0.0	5.22	2.26	0.00	2.26	0.00	0.99	0.09	0.00	1.08	0.00	20.0	0.0	0.	0.00
130	61.500	32.29	0.0	0.0	0.0	5.07	2.28	0.00	2.28	0.00	1.01	0.09	0.00	1.11	0.00	20.1	0.0	0.	0.00
131	61.250	32.29	0.0	0.0	0.0	5.02	2.29	0.00	2.29	0.00	1.02	0.10	0.00	1.12	0.00	20.1	0.0	0.	0.00
132	61.000	32.28	0.0	0.0	0.0	5.01	2.29	0.00	2.29	0.00	1.03	0.10	0.00	1.12	0.00	20.2	0.0	0.	0.00
133	60.750	32.28	0.0	0.0	0.0	5.02	2.29	0.00	2.29	0.00	1.03	0.10	0.00	1.13	0.00	20.2	0.0	0.	0.00
134	60.500	32.27	0.0	0.0	0.0	5.03	2.29	0.00	2.29	0.00	1.03	0.10	0.00	1.13	0.00	20.2	0.0	0.	0.00
135	60.250	32.27	0.0	0.0	0.0	5.05	2.29	0.00	2.29	0.00	1.03	0.10	0.00	1.13	0.00	20.3	0.0	0.	0.00
136	60.000	32.27	0.0	0.0	0.0	5.07	2.29	0.00	2.29	0.00	1.04	0.10	0.00	1.13	0.00	20.3	0.0	0.	0.00
137	59.750	32.26	0.0	0.0	0.0	5.09	2.29	0.00	2.29	0.00	1.04	0.10	0.00	1.13	0.00	20.4	0.0	0.	0.00
138	59.500	32.26	0.0	0.0	0.0	5.11	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.13	0.00	20.4	0.0	0.	0.00
139	59.250	32.25	0.0	0.0	0.0	5.14	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.13	0.00	20.5	0.0	0.	0.00
140	59.000	32.25	0.0	0.0	0.0	5.16	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.14	0.00	20.5	0.0	0.	0.00
141	58.750	32.25	0.0	0.0	0.0	5.18	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.14	0.00	20.5	0.0	0.	0.00
142	58.500	32.24	0.0	0.0	0.0	5.20	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.14	0.00	20.6	0.0	0.	0.00
143	58.250	32.24	0.0	0.0	0.0	5.22	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.14	0.00	20.6	0.0	0.	0.00
144	58.000	32.23	0.0	0.0	0.0	5.24	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.14	0.00	20.7	0.0	0.	0.00
145	57.750	32.23	0.0	0.0	0.0	5.26	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.14	0.00	20.7	0.0	0.	0.00
146	57.500	32.22	0.0	0.0	0.0	5.28	2.30	0.00	2.30	0.00	1.05	0.10	0.00	1.14	0.00	20.8	0.0	0.	0.00
147	57.250	32.22	0.0	0.0	0.0	5.30	2.30	0.00	2.30	0.00	1.05	0.10	0.00	1.14	0.00	20.8	0.0	0.	0.00
148	57.000	32.22	0.0	0.0	0.0	5.32	2.30	0.00	2.30	0.00	1.05	0.10	0.00	1.15	0.00	20.8	0.0	0.	0.00
149	56.750	32.21	0.0	0.0	0.0	5.34	2.30	0.00	2.30	0.00	1.05	0.10	0.00	1.15	0.00	20.9	0.0	0.	0.00
150	56.500	32.21	0.0	0.0	0.0	5.36	2.30	0.00	2.30	0.00	1.05	0.10	0.00	1.15	0.00	20.9	0.0	0.	0.00
151	56.250	32.20	0.0	0.0	0.0	5.38	2.30	0.00	2.30	0.00	1.05	0.10	0.00	1.15	0.00	21.0	0.0	0.	0.00
152	56.000	32.20	0.0	0.0	0.0	5.40	2.30	0.00	2.30	0.00	1.06	0.10	0.00	1.15	0.00	21.0	0.0	0.	0.00
153	55.750	32.20	0.0	0.0	0.0	5.41	2.30	0.00	2.30	0.00	1.06	0.10	0.00	1.16	0.00	21.0	0.0	0.	0.00
154	55.500	32.19	0.0	0.0	0.0	5.43	2.30	0.00	2.30	0.00	1.06	0.10	0.00	1.16	0.00	21.1	0.0	0.	0.00
155	55.250	32.19	0.0	0.0	0.0	5.45	2.30	0.00	2.30	0.00	1.06	0.10	0.00	1.16	0.00	21.1	0.0	0.	0.00
156	55.000	32.18	0.0	0.0	0.0	5.46	2.30	0.00	2.30	0.00	1.07	0.10	0.00	1.17	0.00	21.2	0.0	0.	0.00
157	54.750	32.18	0.0	0.0	0.0	5.48	2.30	0.00	2.30	0.00	1.07	0.10	0.00	1.17	0.00	21.2	0.0	0.	0.00
158	54.500	32.17	0.0	0.0	0.0	5.49	2.30	0.00	2.30	0.00	1.07	0.10	0.00	1.17	0.00	21.2	0.0	0.	0.00
159	54.250	32.17	0.0	0.0	0.0	5.50	2.30	0.00	2.30	0.00	1.08	0.10	0.00	1.18	0.00	21.3	0.0	0.	0.00
160	54.000	32.17	0.0	0.0	0.0	5.51	2.30	0.00	2.30	0.00	1.08	0.10	0.00	1.18	0.00	21.3	0.0	0.	0.00
161	53.750	32.16	0.0	0.0	0.0	5.52	2.31	0.00	2.31	0.00	1.08	0.10	0.00	1.19	0.00	21.4	0.0	0.	0.00
162	53.500	32.16	0.0	0.0	0.0	5.53	2.31	0.00	2.31	0.00	1.09	0.10	0.00	1.19	0.00	21.4	0.0	0.	0.00
163	53.250	32.15	0.0	0.0	0.0	5.54	2.31	0.00	2.31	0.00	1.09	0.10	0.00	1.20	0.00	21.5	0.0	0.	0.00
164	53.000	32.15	0.0	0.0	0.0	5.54	2.31	0.00	2.31	0.00	1.10	0.10	0.00	1.20	0.00	21.5	0.0	0.	0.00
165	52.750	32.15	0.0	0.0	0.0	5.55	2.31	0.00	2.31	0.00	1.10	0.10	0.00	1.21	0.00	21.5	0.0	0.	0.00

166	52.500	32.14	0.0	0.0	0.0	5.55	2.31	0.00	2.31	0.00	1.11	0.10	0.00	1.21	0.00	21.6	0.0	0.	0.00
167	52.250	32.14	0.0	0.0	0.0	5.55	2.31	0.00	2.31	0.00	1.12	0.10	0.00	1.22	0.00	21.6	0.0	0.	0.00
168	52.000	32.13	0.0	0.0	0.0	5.54	2.31	0.00	2.31	0.00	1.12	0.10	0.00	1.23	0.00	21.7	0.0	0.	0.00
169	51.750	32.13	0.0	0.0	0.0	5.53	2.32	0.00	2.32	0.00	1.13	0.11	0.00	1.24	0.00	21.7	0.0	0.	0.00
170	51.500	32.12	0.0	0.0	0.0	5.52	2.32	0.00	2.32	0.00	1.14	0.11	0.00	1.25	0.00	21.8	0.0	0.	0.00
171	51.250	32.12	0.0	0.0	0.0	5.51	2.33	0.00	2.33	0.00	1.15	0.11	0.00	1.26	0.00	21.8	0.0	0.	0.00
172	51.000	32.12	0.0	0.0	0.0	5.50	2.34	0.00	2.34	0.00	1.16	0.11	0.00	1.27	0.00	21.8	0.0	0.	0.00
173	50.750	32.11	0.0	0.0	0.0	5.49	2.36	0.00	2.36	0.00	1.17	0.11	0.00	1.28	0.00	21.9	0.0	0.	0.00
174	50.500	32.11	0.0	0.0	0.0	5.48	2.38	0.00	2.38	0.00	1.18	0.11	0.00	1.29	0.00	21.9	0.0	0.	0.00
175	50.250	32.10	0.0	0.0	0.0	5.48	2.43	0.00	2.43	0.00	1.19	0.11	0.00	1.31	0.00	22.0	0.0	0.	0.00
176	50.000	32.10	0.0	0.0	0.0	5.51	2.49	0.00	2.49	0.00	1.21	0.11	0.00	1.32	0.00	22.0	0.0	0.	0.00
177	49.750	32.10	0.0	0.0	0.0	5.56	2.60	0.00	2.60	0.00	1.22	0.11	0.00	1.34	0.00	22.0	0.0	0.	0.00
178	49.500	32.09	0.0	0.0	0.0	5.69	2.76	0.00	2.76	0.00	1.24	0.11	0.00	1.35	0.00	22.1	0.0	0.	0.00
179	49.250	32.09	0.0	0.0	0.0	5.93	3.03	0.00	3.03	0.00	1.26	0.11	0.00	1.37	0.00	22.1	0.0	0.	0.00
180	49.000	32.08	0.0	0.0	0.0	6.35	3.45	0.00	3.45	0.00	1.28	0.11	0.00	1.39	0.00	22.2	0.0	0.	0.00
181	48.750	32.08	0.0	0.0	0.0	7.08	4.12	0.00	4.12	0.00	1.30	0.11	0.00	1.41	0.00	22.2	0.0	0.	0.00
182	48.500	32.08	0.0	0.0	0.0	6.22	3.20	0.00	3.20	0.00	1.25	0.11	0.00	1.36	0.00	22.2	0.0	0.	0.00
183	48.250	32.07	0.0	0.0	0.0	5.89	2.75	0.00	2.75	0.00	1.21	0.11	0.00	1.32	0.00	22.3	0.0	0.	0.00
184	48.000	32.07	0.0	0.0	0.0	5.81	2.53	0.00	2.53	0.00	1.18	0.11	0.00	1.28	0.00	22.3	0.0	0.	0.00
185	47.750	32.06	0.0	0.0	0.0	5.83	2.42	0.00	2.42	0.00	1.15	0.11	0.00	1.26	0.00	22.4	0.0	0.	0.00
186	47.500	32.06	0.0	0.0	0.0	5.88	2.37	0.00	2.37	0.00	1.13	0.10	0.00	1.23	0.00	22.4	0.0	0.	0.00
187	47.250	32.05	0.0	0.0	0.0	5.95	2.34	0.00	2.34	0.00	1.11	0.10	0.00	1.21	0.00	22.5	0.0	0.	0.00
188	47.000	32.05	0.0	0.0	0.0	6.02	2.33	0.00	2.33	0.00	1.10	0.10	0.00	1.20	0.00	22.5	0.0	0.	0.00
189	46.750	32.05	0.0	0.0	0.0	6.08	2.32	0.00	2.32	0.00	1.08	0.10	0.00	1.18	0.00	22.5	0.0	0.	0.00
190	46.500	32.04	0.0	0.0	0.0	6.14	2.32	0.00	2.32	0.00	1.08	0.10	0.00	1.17	0.00	22.6	0.0	0.	0.00
191	46.250	32.04	0.0	0.0	0.0	6.19	2.32	0.00	2.32	0.00	1.07	0.10	0.00	1.16	0.00	22.6	0.0	0.	0.00
192	46.000	32.03	0.0	0.0	0.0	6.24	2.32	0.00	2.32	0.00	1.06	0.10	0.00	1.16	0.00	22.7	0.0	0.	0.00
193	45.750	32.03	0.0	0.0	0.0	6.28	2.32	0.00	2.32	0.00	1.06	0.10	0.00	1.15	0.00	22.7	0.0	0.	0.00
194	45.500	32.02	0.0	0.0	0.0	6.32	2.32	0.00	2.32	0.00	1.05	0.10	0.00	1.15	0.00	22.8	0.0	0.	0.00
195	45.250	32.02	0.0	0.0	0.0	6.35	2.32	0.00	2.32	0.00	1.05	0.10	0.00	1.14	0.00	22.8	0.0	0.	0.00
196	45.000	32.02	0.0	0.0	0.0	6.39	2.32	0.00	2.32	0.00	1.04	0.09	0.00	1.14	0.00	22.8	0.0	0.	0.00
197	44.750	32.01	0.0	0.0	0.0	6.42	2.32	0.00	2.32	0.00	1.04	0.09	0.00	1.14	0.00	22.9	0.0	0.	0.00
198	44.500	32.01	0.0	0.0	0.0	6.45	2.32	0.00	2.32	0.00	1.04	0.09	0.00	1.13	0.00	22.9	0.0	0.	0.00
199	44.250	32.00	0.0	0.0	0.0	6.48	2.32	0.00	2.32	0.00	1.04	0.09	0.00	1.13	0.00	23.0	0.0	0.	0.00
200	44.000	32.00	0.0	0.0	0.0	6.50	2.32	0.00	2.32	0.00	1.04	0.09	0.00	1.13	0.00	23.0	0.0	0.	0.00
201	43.750	32.00	0.0	0.0	0.0	6.53	2.32	0.00	2.32	0.00	1.04	0.09	0.00	1.13	0.00	23.0	0.0	0.	0.00
202	43.500	31.99	0.0	0.0	0.0	6.56	2.32	0.00	2.32	0.00	1.03	0.09	0.00	1.13	0.00	23.1	0.0	0.	0.00
203	43.250	31.99	0.0	0.0	0.0	6.58	2.32	0.00	2.32	0.00	1.03	0.09	0.00	1.13	0.00	23.1	0.0	0.	0.00
204	43.000	31.98	0.0	0.0	0.0	6.61	2.32	0.00	2.32	0.00	1.03	0.09	0.00	1.13	0.00	23.2	0.0	0.	0.00
205	42.750	31.98	0.0	0.0	0.0	6.64	2.32	0.00	2.32	0.00	1.03	0.09	0.00	1.13	0.00	23.2	0.0	0.	0.00
206	42.500	31.98	0.0	0.0	0.0	6.66	2.32	0.00	2.32	0.00	1.03	0.09	0.00	1.13	0.00	23.2	0.0	0.	0.00
207	42.250	31.97	0.0	0.0	0.0	6.69	2.32	0.00	2.32	0.00	1.03	0.09	0.00	1.12	0.00	23.3	0.0	0.	0.00
208	42.000	31.97	0.0	0.0	0.0	6.71	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.3	0.0	0.	0.00
209	41.750	31.96	0.0	0.0	0.0	6.73	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.4	0.0	0.	0.00
210	41.500	31.96	0.0	0.0	0.0	6.76	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.4	0.0	0.	0.00
211	41.250	31.95	0.0	0.0	0.0	6.78	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.5	0.0	0.	0.00
212	41.000	31.95	0.0	0.0	0.0	6.80	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.5	0.0	0.	0.00
213	40.750	31.95	0.0	0.0	0.0	6.82	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.5	0.0	0.	0.00
214	40.500	31.94	0.0	0.0	0.0	6.84	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.6	0.0	0.	0.00
215	40.250	31.94	0.0	0.0	0.0	6.85	2.33	0.00	2.33	0.00	1.02	0.09	0.00	1.12	0.00	23.6	0.0	0.	0.00

216	40.000	31.93	0.0	0.0	0.0	6.85	2.34	0.00	2.34	0.00	1.02	0.09	0.00	1.11	0.00	23.7	0.0	0.	0.00
217	39.750	31.93	0.0	0.0	0.0	6.83	2.35	0.00	2.35	0.00	1.02	0.09	0.00	1.11	0.00	23.7	0.0	0.	0.00
218	39.500	31.92	0.0	0.0	0.0	6.79	2.37	0.00	2.37	0.00	1.01	0.09	0.00	1.10	0.00	23.8	0.0	0.	0.00
219	39.250	31.92	0.0	0.0	0.0	6.72	2.43	0.00	2.43	0.00	1.00	0.09	0.00	1.09	0.00	23.8	0.0	0.	0.00
220	39.000	31.92	0.0	0.0	0.0	6.62	2.57	0.00	2.57	0.00	0.99	0.09	0.00	1.08	0.00	23.8	0.0	0.	0.00
221	38.750	31.91	0.0	0.0	0.0	6.57	2.90	0.00	2.90	0.00	0.97	0.09	0.00	1.06	0.00	23.9	0.0	0.	0.00
222	38.500	31.91	0.0	0.0	0.0	6.59	3.04	0.00	3.04	0.00	0.96	0.09	0.00	1.05	0.00	23.9	0.0	0.	0.00
223	38.250	31.90	0.0	0.0	0.0	6.66	3.13	0.00	3.13	0.00	0.96	0.09	0.00	1.05	0.00	24.0	0.0	0.	0.00
224	38.000	31.90	0.0	0.0	0.0	6.73	3.23	0.00	3.23	0.00	0.96	0.09	0.00	1.05	0.00	24.0	0.0	0.	0.00
405	37.750	31.90	0.0	0.0	0.0	6.82	3.33	0.00	3.33	0.00	0.96	0.09	0.00	1.05	0.00	24.0	0.0	0.	0.00
406	37.500	31.90	0.0	0.0	0.0	7.30	3.32	0.00	3.32	0.00	0.91	0.08	0.00	0.99	0.00	24.0	0.0	0.	0.00
407	37.250	31.90	0.0	0.0	0.0	7.50	3.33	0.00	3.33	0.00	0.88	0.08	0.00	0.96	0.00	23.9	0.0	0.	0.00
408	37.000	31.91	0.0	0.0	0.0	7.59	3.34	0.00	3.34	0.00	0.87	0.08	0.00	0.95	0.00	23.9	0.0	0.	0.00
409	36.750	31.91	0.0	0.0	0.0	7.62	3.36	0.00	3.36	0.00	0.87	0.08	0.00	0.95	0.00	23.9	0.0	0.	0.00
410	36.500	31.91	0.0	0.0	0.0	7.63	3.38	0.00	3.38	0.00	0.87	0.08	0.00	0.95	0.00	23.9	0.0	0.	0.00
411	36.250	31.91	0.0	0.0	0.0	7.62	3.40	0.00	3.40	0.00	0.87	0.08	0.00	0.95	0.00	23.9	0.0	0.	0.00
412	36.000	31.91	0.0	0.0	0.0	7.62	3.43	0.00	3.43	0.00	0.87	0.08	0.00	0.95	0.00	23.8	0.0	0.	0.00
413	35.750	31.91	0.0	0.0	0.0	7.62	3.47	0.00	3.47	0.00	0.88	0.08	0.00	0.95	0.00	23.8	0.0	0.	0.00
414	35.500	31.91	0.0	0.0	0.0	7.71	3.32	0.00	3.32	0.00	0.85	0.08	0.00	0.93	0.00	23.8	0.0	0.	0.00
415	35.250	31.91	0.0	0.0	0.0	7.74	3.27	0.00	3.27	0.00	0.85	0.08	0.00	0.92	0.00	23.8	0.0	0.	0.00
416	35.000	31.92	0.0	0.0	0.0	7.75	3.24	0.00	3.24	0.00	0.84	0.08	0.00	0.92	0.00	23.8	0.0	0.	0.00
417	34.750	31.92	0.0	0.0	0.0	7.73	3.23	0.00	3.23	0.00	0.84	0.08	0.00	0.92	0.00	23.7	0.0	0.	0.00
418	34.500	31.92	0.0	0.0	0.0	7.71	3.23	0.00	3.23	0.00	0.84	0.08	0.00	0.92	0.00	23.7	0.0	0.	0.00
419	34.250	31.92	0.0	0.0	0.0	7.69	3.23	0.00	3.23	0.00	0.84	0.08	0.00	0.92	0.00	23.7	0.0	0.	0.00
420	34.000	31.92	0.0	0.0	0.0	7.66	3.23	0.00	3.23	0.00	0.84	0.08	0.00	0.92	0.00	23.7	0.0	0.	0.00
421	33.750	31.92	0.0	0.0	0.0	7.63	3.23	0.00	3.23	0.00	0.84	0.08	0.00	0.92	0.00	23.7	0.0	0.	0.00
422	33.500	31.92	0.0	0.0	0.0	7.60	3.23	0.00	3.23	0.00	0.85	0.08	0.00	0.92	0.00	23.6	0.0	0.	0.00
423	33.250	31.92	0.0	0.0	0.0	7.57	3.23	0.00	3.23	0.00	0.85	0.08	0.00	0.92	0.00	23.6	0.0	0.	0.00
424	33.000	31.93	0.0	0.0	0.0	7.54	3.23	0.00	3.23	0.00	0.85	0.08	0.00	0.93	0.00	23.6	0.0	0.	0.00
425	32.750	31.93	0.0	0.0	0.0	7.51	3.23	0.00	3.23	0.00	0.85	0.08	0.00	0.93	0.00	23.6	0.0	0.	0.00
426	32.500	31.93	0.0	0.0	0.0	7.47	3.23	0.00	3.23	0.00	0.85	0.08	0.00	0.93	0.00	23.6	0.0	0.	0.00
427	32.250	31.93	0.0	0.0	0.0	7.44	3.23	0.00	3.23	0.00	0.85	0.08	0.00	0.93	0.00	23.5	0.0	0.	0.00
428	32.000	31.93	0.0	0.0	0.0	7.40	3.23	0.00	3.23	0.00	0.86	0.08	0.00	0.93	0.00	23.5	0.0	0.	0.00
429	31.750	31.93	0.0	0.0	0.0	7.36	3.23	0.00	3.23	0.00	0.86	0.08	0.00	0.94	0.00	23.5	0.0	0.	0.00
430	31.500	31.93	0.0	0.0	0.0	7.32	3.23	0.00	3.23	0.00	0.86	0.08	0.00	0.94	0.00	23.5	0.0	0.	0.00
431	31.250	31.94	0.0	0.0	0.0	7.28	3.23	0.00	3.23	0.00	0.86	0.08	0.00	0.94	0.00	23.5	0.0	0.	0.00
432	31.000	31.94	0.0	0.0	0.0	7.24	3.23	0.00	3.23	0.00	0.86	0.08	0.00	0.94	0.00	23.4	0.0	0.	0.00
433	30.750	31.94	0.0	0.0	0.0	7.20	3.23	0.00	3.23	0.00	0.87	0.08	0.00	0.94	0.00	23.4	0.0	0.	0.00
434	30.500	31.94	0.0	0.0	0.0	7.16	3.23	0.00	3.23	0.00	0.87	0.08	0.00	0.95	0.00	23.4	0.0	0.	0.00
435	30.250	31.94	0.0	0.0	0.0	7.11	3.23	0.00	3.23	0.00	0.87	0.08	0.00	0.95	0.00	23.4	0.0	0.	0.00
436	30.000	31.94	0.0	0.0	0.0	7.06	3.23	0.00	3.23	0.00	0.87	0.08	0.00	0.95	0.00	23.4	0.0	0.	0.00
437	29.750	31.94	0.0	0.0	0.0	7.01	3.23	0.00	3.23	0.00	0.87	0.08	0.00	0.95	0.00	23.3	0.0	0.	0.00
438	29.500	31.94	0.0	0.0	0.0	6.96	3.23	0.00	3.23	0.00	0.88	0.08	0.00	0.96	0.00	23.3	0.0	0.	0.00
439	29.250	31.95	0.0	0.0	0.0	6.91	3.23	0.00	3.23	0.00	0.88	0.08	0.00	0.96	0.00	23.3	0.0	0.	0.00
440	29.000	31.95	0.0	0.0	0.0	6.86	3.24	0.00	3.24	0.00	0.88	0.08	0.00	0.96	0.00	23.3	0.0	0.	0.00
441	28.750	31.95	0.0	0.0	0.0	6.80	3.24	0.00	3.24	0.00	0.88	0.08	0.00	0.97	0.00	23.3	0.0	0.	0.00
442	28.500	31.95	0.0	0.0	0.0	6.75	3.24	0.00	3.24	0.00	0.89	0.08	0.00	0.97	0.00	23.2	0.0	0.	0.00
443	28.250	31.95	0.0	0.0	0.0	6.69	3.25	0.00	3.25	0.00	0.89	0.08	0.00	0.97	0.00	23.2	0.0	0.	0.00
444	28.000	31.95	0.0	0.0	0.0	6.63	3.25	0.00	3.25	0.00	0.89	0.08	0.00	0.97	0.00	23.2	0.0	0.	0.00
445	27.750	31.95	0.0	0.0	0.0	6.57	3.25	0.00	3.25	0.00	0.89	0.08	0.00	0.98	0.00	23.2	0.0	0.	0.00

446	27.500	31.96	0.0	0.0	0.0	6.50	3.26	0.00	3.26	0.00	0.90	0.08	0.00	0.98	0.00	23.2	0.0	0.	0.00
447	27.250	31.96	0.0	0.0	0.0	6.44	3.27	0.00	3.27	0.00	0.90	0.08	0.00	0.98	0.00	23.2	0.0	0.	0.00
448	27.000	31.96	0.0	0.0	0.0	6.37	3.28	0.00	3.28	0.00	0.90	0.08	0.00	0.99	0.00	23.1	0.0	0.	0.00
449	26.750	31.96	0.0	0.0	0.0	6.30	3.29	0.00	3.29	0.00	0.91	0.08	0.00	0.99	0.00	23.1	0.0	0.	0.00
450	26.500	31.96	0.0	0.0	0.0	6.23	3.30	0.00	3.30	0.00	0.91	0.09	0.00	0.99	0.00	23.1	0.0	0.	0.00
451	26.250	31.96	0.0	0.0	0.0	6.16	3.31	0.00	3.31	0.00	0.91	0.09	0.00	1.00	0.00	23.1	0.0	0.	0.00
452	26.000	31.96	0.0	0.0	0.0	6.09	3.33	0.00	3.33	0.00	0.91	0.09	0.00	1.00	0.00	23.1	0.0	0.	0.00
453	25.750	31.96	0.0	0.0	0.0	6.02	3.35	0.00	3.35	0.00	0.92	0.09	0.00	1.00	0.00	23.0	0.0	0.	0.00
454	25.500	31.97	0.0	0.0	0.0	5.95	3.37	0.00	3.37	0.00	0.92	0.09	0.00	1.01	0.00	23.0	0.0	0.	0.00
455	25.250	31.97	0.0	0.0	0.0	5.87	3.40	0.00	3.40	0.00	0.92	0.09	0.00	1.01	0.00	23.0	0.0	0.	0.00
456	25.000	31.97	0.0	0.0	0.0	5.81	3.43	0.00	3.43	0.00	0.93	0.09	0.00	1.02	0.00	23.0	0.0	0.	0.00
457	24.750	31.97	0.0	0.0	0.0	5.74	3.47	0.00	3.47	0.00	0.93	0.09	0.00	1.02	0.00	23.0	0.0	0.	0.00
458	24.500	31.97	0.0	0.0	0.0	5.67	3.51	0.00	3.51	0.00	0.94	0.09	0.00	1.02	0.00	22.9	0.0	0.	0.00
459	24.250	31.97	0.0	0.0	0.0	5.62	3.57	0.00	3.57	0.00	0.94	0.09	0.00	1.03	0.00	22.9	0.0	0.	0.00
460	24.000	31.97	0.0	0.0	0.0	5.57	3.63	0.00	3.63	0.00	0.94	0.09	0.00	1.03	0.00	22.9	0.0	0.	0.00
461	23.750	31.97	0.0	0.0	0.0	5.52	3.71	0.00	3.71	0.00	0.95	0.09	0.00	1.04	0.00	22.9	0.0	0.	0.00
462	23.500	31.98	0.0	0.0	0.0	5.49	3.79	0.00	3.79	0.00	0.95	0.09	0.00	1.04	0.00	22.9	0.0	0.	0.00
463	23.250	31.98	0.0	0.0	0.0	5.48	3.90	0.00	3.90	0.00	0.96	0.09	0.00	1.04	0.00	22.8	0.0	0.	0.00
464	23.000	31.98	0.0	0.0	0.0	5.48	4.03	0.00	4.03	0.00	0.96	0.09	0.00	1.05	0.00	22.8	0.0	0.	0.00
465	22.750	31.98	0.0	0.0	0.0	5.50	4.18	0.00	4.18	0.00	0.96	0.09	0.00	1.05	0.00	22.8	0.0	0.	0.00
466	22.500	31.98	0.0	0.0	0.0	5.56	4.36	0.00	4.36	0.00	0.97	0.09	0.00	1.06	0.00	22.8	0.0	0.	0.00
467	22.250	31.98	0.0	0.0	0.0	5.65	4.57	0.00	4.57	0.00	0.97	0.09	0.00	1.06	0.00	22.8	0.0	0.	0.00
468	22.000	31.98	0.0	0.0	0.0	5.78	4.80	0.00	4.80	0.00	0.98	0.09	0.00	1.06	0.00	22.7	0.0	0.	0.00
469	21.750	31.99	0.0	0.0	0.0	5.96	5.09	0.00	5.09	0.00	0.98	0.08	0.00	1.07	0.00	22.7	0.0	0.	0.00
470	21.500	31.99	0.0	0.0	0.0	6.53	4.11	0.00	4.11	0.00	0.88	0.08	0.00	0.96	0.00	22.7	0.0	0.	0.00
471	21.250	31.99	0.0	0.0	0.0	6.93	3.64	0.00	3.64	0.00	0.82	0.07	0.00	0.90	0.00	22.7	0.0	0.	0.00
472	21.000	31.99	0.0	0.0	0.0	7.19	3.42	0.00	3.42	0.00	0.79	0.07	0.00	0.86	0.00	22.7	0.0	0.	0.00
473	20.750	31.99	0.0	0.0	0.0	7.36	3.31	0.00	3.31	0.00	0.77	0.07	0.00	0.84	0.00	22.6	0.0	0.	0.00
474	20.500	31.99	0.0	0.0	0.0	7.45	3.26	0.00	3.26	0.00	0.76	0.07	0.00	0.83	0.00	22.6	0.0	0.	0.00
475	20.250	31.99	0.0	0.0	0.0	7.50	3.24	0.00	3.24	0.00	0.75	0.07	0.00	0.82	0.00	22.6	0.0	0.	0.00
476	20.000	31.99	0.0	0.0	0.0	7.52	3.23	0.00	3.23	0.00	0.75	0.07	0.00	0.82	0.00	22.6	0.0	0.	0.00
477	19.750	32.00	0.0	0.0	0.0	7.53	3.22	0.00	3.22	0.00	0.75	0.07	0.00	0.81	0.00	22.6	0.0	0.	0.00
478	19.500	32.00	0.0	0.0	0.0	7.53	3.22	0.00	3.22	0.00	0.74	0.07	0.00	0.81	0.00	22.5	0.0	0.	0.00
479	19.250	32.00	0.0	0.0	0.0	7.52	3.22	0.00	3.22	0.00	0.74	0.07	0.00	0.81	0.00	22.5	0.0	0.	0.00
480	19.000	32.00	0.0	0.0	0.0	7.51	3.22	0.00	3.22	0.00	0.74	0.07	0.00	0.81	0.00	22.5	0.0	0.	0.00
481	18.750	32.00	0.0	0.0	0.0	7.50	3.22	0.00	3.22	0.00	0.74	0.07	0.00	0.81	0.00	22.5	0.0	0.	0.00
482	18.500	32.00	0.0	0.0	0.0	7.48	3.22	0.00	3.22	0.00	0.74	0.07	0.00	0.80	0.00	22.5	0.0	0.	0.00
483	18.250	32.00	0.0	0.0	0.0	7.47	3.22	0.00	3.22	0.00	0.74	0.07	0.00	0.80	0.00	22.4	0.0	0.	0.00
484	18.000	32.01	0.0	0.0	0.0	7.45	3.23	0.00	3.23	0.00	0.74	0.07	0.00	0.80	0.00	22.4	0.0	0.	0.00
485	17.750	32.01	0.0	0.0	0.0	7.43	3.23	0.00	3.23	0.00	0.74	0.07	0.00	0.80	0.00	22.4	0.0	0.	0.00
486	17.500	32.01	0.0	0.0	0.0	7.42	3.23	0.00	3.23	0.00	0.74	0.07	0.00	0.80	0.00	22.4	0.0	0.	0.00
487	17.250	32.01	0.0	0.0	0.0	7.40	3.24	0.00	3.24	0.00	0.73	0.07	0.00	0.80	0.00	22.4	0.0	0.	0.00
488	17.000	32.01	0.0	0.0	0.0	7.39	3.24	0.00	3.24	0.00	0.73	0.06	0.00	0.80	0.00	22.3	0.0	0.	0.00
489	16.750	32.01	0.0	0.0	0.0	7.37	3.25	0.00	3.25	0.00	0.73	0.06	0.00	0.80	0.00	22.3	0.0	0.	0.00
490	16.500	32.01	0.0	0.0	0.0	7.36	3.26	0.00	3.26	0.00	0.73	0.06	0.00	0.80	0.00	22.3	0.0	0.	0.00
491	16.250	32.01	0.0	0.0	0.0	7.35	3.27	0.00	3.27	0.00	0.73	0.06	0.00	0.79	0.00	22.3	0.0	0.	0.00
492	16.000	32.02	0.0	0.0	0.0	7.34	3.29	0.00	3.29	0.00	0.73	0.06	0.00	0.79	0.00	22.3	0.0	0.	0.00
493	15.750	32.02	0.0	0.0	0.0	7.34	3.30	0.00	3.30	0.00	0.73	0.06	0.00	0.79	0.00	22.2	0.0	0.	0.00
494	15.500	32.02	0.0	0.0	0.0	7.37	3.26	0.00	3.26	0.00	0.72	0.06	0.00	0.79	0.00	22.2	0.0	0.	0.00
495	15.250	32.02	0.0	0.0	0.0	7.38	3.23	0.00	3.23	0.00	0.72	0.06	0.00	0.78	0.00	22.2	0.0	0.	0.00

496	15.000	32.02	0.0	0.0	0.0	7.39	3.22	0.00	3.22	0.00	0.72	0.06	0.00	0.78	0.00	22.2	0.0	0.	0.00
497	14.750	32.02	0.0	0.0	0.0	7.39	3.22	0.00	3.22	0.00	0.71	0.06	0.00	0.78	0.00	22.2	0.0	0.	0.00
498	14.500	32.02	0.0	0.0	0.0	7.38	3.21	0.00	3.21	0.00	0.71	0.06	0.00	0.78	0.00	22.1	0.0	0.	0.00
499	14.250	32.02	0.0	0.0	0.0	7.37	3.21	0.00	3.21	0.00	0.71	0.06	0.00	0.77	0.00	22.1	0.0	0.	0.00
500	14.000	32.03	0.0	0.0	0.0	7.36	3.21	0.00	3.21	0.00	0.71	0.06	0.00	0.77	0.00	22.1	0.0	0.	0.00
501	13.750	32.03	0.0	0.0	0.0	7.35	3.21	0.00	3.21	0.00	0.71	0.06	0.00	0.77	0.00	22.1	0.0	0.	0.00
502	13.500	32.03	0.0	0.0	0.0	7.33	3.21	0.00	3.21	0.00	0.70	0.06	0.00	0.77	0.00	22.1	0.0	0.	0.00
503	13.250	32.03	0.0	0.0	0.0	7.31	3.21	0.00	3.21	0.00	0.70	0.06	0.00	0.76	0.00	22.0	0.0	0.	0.00
504	13.000	32.03	0.0	0.0	0.0	7.29	3.21	0.00	3.21	0.00	0.70	0.06	0.00	0.76	0.00	22.0	0.0	0.	0.00
505	12.750	32.03	0.0	0.0	0.0	7.28	3.21	0.00	3.21	0.00	0.70	0.06	0.00	0.76	0.00	22.0	0.0	0.	0.00
506	12.500	32.03	0.0	0.0	0.0	7.26	3.21	0.00	3.21	0.00	0.69	0.06	0.00	0.75	0.00	22.0	0.0	0.	0.00
507	12.250	32.04	0.0	0.0	0.0	7.24	3.21	0.00	3.21	0.00	0.69	0.06	0.00	0.75	0.00	22.0	0.0	0.	0.00
508	12.000	32.04	0.0	0.0	0.0	7.21	3.21	0.00	3.21	0.00	0.69	0.06	0.00	0.75	0.00	21.9	0.0	0.	0.00
509	11.750	32.04	0.0	0.0	0.0	7.19	3.22	0.00	3.22	0.00	0.68	0.06	0.00	0.74	0.00	21.9	0.0	0.	0.00
510	11.500	32.04	0.0	0.0	0.0	7.17	3.22	0.00	3.22	0.00	0.68	0.06	0.00	0.74	0.00	21.9	0.0	0.	0.00
511	11.250	32.04	0.0	0.0	0.0	7.14	3.22	0.00	3.22	0.00	0.68	0.06	0.00	0.74	0.00	21.9	0.0	0.	0.00
512	11.000	32.04	0.0	0.0	0.0	7.11	3.22	0.00	3.22	0.00	0.67	0.06	0.00	0.73	0.00	21.9	0.0	0.	0.00
513	10.750	32.04	0.0	0.0	0.0	7.08	3.23	0.00	3.23	0.00	0.67	0.06	0.00	0.73	0.00	21.8	0.0	0.	0.00
514	10.500	32.04	0.0	0.0	0.0	7.06	3.23	0.00	3.23	0.00	0.67	0.06	0.00	0.73	0.00	21.8	0.0	0.	0.00
515	10.250	32.05	0.0	0.0	0.0	7.03	3.24	0.00	3.24	0.00	0.66	0.06	0.00	0.72	0.00	21.8	0.0	0.	0.00
516	10.000	32.05	0.0	0.0	0.0	6.99	3.24	0.00	3.24	0.00	0.66	0.06	0.00	0.72	0.00	21.8	0.0	0.	0.00
517	9.750	32.05	0.0	0.0	0.0	6.96	3.25	0.00	3.25	0.00	0.65	0.06	0.00	0.71	0.00	21.8	0.0	0.	0.00
518	9.500	32.05	0.0	0.0	0.0	6.93	3.27	0.00	3.27	0.00	0.65	0.06	0.00	0.71	0.00	21.8	0.0	0.	0.00
519	9.250	32.05	0.0	0.0	0.0	6.90	3.28	0.00	3.28	0.00	0.64	0.06	0.00	0.70	0.00	21.7	0.0	0.	0.00
520	9.000	32.05	0.0	0.0	0.0	6.87	3.30	0.00	3.30	0.00	0.64	0.06	0.00	0.70	0.00	21.7	0.0	0.	0.00
521	8.750	32.05	0.0	0.0	0.0	6.84	3.33	0.00	3.33	0.00	0.63	0.06	0.00	0.69	0.00	21.7	0.0	0.	0.00
522	8.500	32.06	0.0	0.0	0.0	6.82	3.37	0.00	3.37	0.00	0.63	0.06	0.00	0.68	0.00	21.7	0.0	0.	0.00
523	8.250	32.06	0.0	0.0	0.0	6.81	3.41	0.00	3.41	0.00	0.62	0.06	0.00	0.68	0.00	21.7	0.0	0.	0.00
524	8.000	32.06	0.0	0.0	0.0	6.80	3.47	0.00	3.47	0.00	0.62	0.05	0.00	0.67	0.00	21.6	0.0	0.	0.00
525	7.750	32.06	0.0	0.0	0.0	6.82	3.54	0.00	3.54	0.00	0.61	0.05	0.00	0.67	0.00	21.6	0.0	0.	0.00
526	7.500	32.06	0.0	0.0	0.0	6.94	3.38	0.00	3.38	0.00	0.59	0.05	0.00	0.64	0.00	21.6	0.0	0.	0.00
527	7.250	32.06	0.0	0.0	0.0	7.04	3.30	0.00	3.30	0.00	0.57	0.05	0.00	0.62	0.00	21.6	0.0	0.	0.00
528	7.000	32.06	0.0	0.0	0.0	7.10	3.26	0.00	3.26	0.00	0.56	0.05	0.00	0.60	0.00	21.6	0.0	0.	0.00
529	6.750	32.06	0.0	0.0	0.0	7.14	3.23	0.00	3.23	0.00	0.54	0.05	0.00	0.59	0.00	21.5	0.0	0.	0.00
530	6.500	32.07	0.0	0.0	0.0	7.15	3.22	0.00	3.22	0.00	0.53	0.05	0.00	0.57	0.00	21.5	0.0	0.	0.00
531	6.250	32.07	0.0	0.0	0.0	7.15	3.21	0.00	3.21	0.00	0.51	0.04	0.00	0.56	0.00	21.5	0.0	0.	0.00
532	6.000	32.07	0.0	0.0	0.0	7.14	3.21	0.00	3.21	0.00	0.50	0.04	0.00	0.54	0.00	21.5	0.0	0.	0.00
533	5.750	32.07	0.0	0.0	0.0	7.12	3.21	0.00	3.21	0.00	0.49	0.04	0.00	0.53	0.00	21.5	0.0	0.	0.00
534	5.500	32.07	0.0	0.0	0.0	7.08	3.21	0.00	3.21	0.00	0.47	0.04	0.00	0.51	0.00	21.4	0.0	0.	0.00
535	5.250	32.07	0.0	0.0	0.0	7.04	3.21	0.00	3.21	0.00	0.46	0.04	0.00	0.50	0.00	21.4	0.0	0.	0.00
536	5.000	32.07	0.0	0.0	0.0	7.00	3.21	0.00	3.21	0.00	0.44	0.04	0.00	0.48	0.00	21.4	0.0	0.	0.00
537	4.750	32.07	0.0	0.0	0.0	6.94	3.21	0.00	3.21	0.00	0.42	0.04	0.00	0.46	0.00	21.4	0.0	0.	0.00
538	4.500	32.08	0.0	0.0	0.0	6.87	3.21	0.00	3.21	0.00	0.41	0.03	0.00	0.44	0.00	21.4	0.0	0.	0.00
539	4.250	32.08	0.0	0.0	0.0	6.80	3.21	0.00	3.21	0.00	0.39	0.03	0.00	0.42	0.00	21.3	0.0	0.	0.00
540	4.000	32.08	0.0	0.0	0.0	6.72	3.21	0.00	3.21	0.00	0.37	0.03	0.00	0.40	0.00	21.3	0.0	0.	0.00
541	3.750	32.08	0.0	0.0	0.0	6.62	3.22	0.00	3.22	0.00	0.35	0.03	0.00	0.38	0.00	21.3	0.0	0.	0.00
542	3.500	32.08	0.0	0.0	0.0	6.53	3.22	0.00	3.22	0.00	0.33	0.03	0.00	0.36	0.00	21.3	0.0	0.	0.00
543	3.250	32.08	0.0	0.0	0.0	6.43	3.22	0.00	3.22	0.00	0.31	0.03	0.00	0.34	0.00	21.3	0.0	0.	0.00
544	3.000	32.08	0.0	0.0	0.0	6.33	3.23	0.00	3.23	0.00	0.29	0.03	0.00	0.32	0.00	21.2	0.0	0.	0.00
545	2.750	32.09	0.0	0.0	0.0	6.23	3.24	0.00	3.24	0.00	0.27	0.03	0.00	0.30	0.00	21.2	0.0	0.	0.00

546	2.500	32.09	0.0	0.0	0.0	6.12	3.25	0.00	3.25	0.00	0.25	0.03	0.00	0.28	0.00	21.2	0.0	0.	0.00		
547	2.250	32.09	0.0	0.0	0.0	6.00	3.26	0.00	3.26	0.00	0.24	0.03	0.00	0.27	0.00	21.2	0.0	0.	0.00		
548	2.000	32.09	0.0	0.0	0.0	5.87	3.28	0.00	3.28	0.00	0.21	0.03	0.00	0.25	0.00	21.2	0.0	0.	0.00		
549	1.750	32.09	0.0	0.0	0.0	5.74	3.30	0.00	3.30	0.00	0.19	0.04	0.00	0.23	0.00	21.1	0.0	0.	0.00		
550	1.500	32.09	0.0	0.0	0.0	5.61	3.32	0.00	3.32	0.00	0.17	0.04	0.00	0.21	0.00	21.1	0.0	0.	0.00		
551	1.250	32.09	0.0	0.0	0.0	5.48	3.35	0.00	3.35	0.00	0.15	0.05	0.00	0.20	0.00	21.1	0.0	0.	0.00		
552	1.000	32.09	0.0	0.0	0.0	5.35	3.39	0.00	3.39	0.00	0.12	0.05	0.00	0.18	0.00	21.1	0.0	0.	0.00		
553	0.750	32.10	0.0	0.0	0.0	5.23	3.45	0.00	3.45	0.00	0.10	0.07	0.00	0.17	0.00	21.1	0.0	0.	0.00		
554	0.500	32.10	0.0	0.0	0.0	5.12	3.52	0.00	3.52	0.00	0.07	0.08	0.00	0.16	0.00	21.0	0.0	0.	0.00		
555	0.250	32.10	0.0	0.0	0.0	5.04	3.60	0.00	3.60	0.00	0.05	0.10	0.11	0.26	0.00	21.0	0.0	0.	0.00		
556	0.000	32.10	0.0	0.0	0.0	5.00	3.71	0.00	3.71	0.00	0.02	0.13	0.21	0.36	0.00	21.0	0.0	0.	0.00		

SPECIAL REPORT: Bayou Black

WATER QUALITY CONSTITUENT VALUES

ELEM	ENDING		TEMP	SALN	CM-I	CM-II	DO	BOD1	BOD2	EBOD#1	EBOD#2	ORG-N	NH3-N	NO3-N	TOTN	PHOS	CHL A	MACRO	COLI	NCM
NO.	km	deg C	ppt	*	*	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	**		#/100mL	*
225	44.750	32.10	0.0	0.0	0.0	5.03	3.44	0.00	3.44	0.00	1.39	0.25	0.00	1.64	0.00	25.0	0.0	0.	0.00		
226	44.500	32.09	0.0	0.0	0.0	5.13	3.03	0.00	3.03	0.00	1.37	0.22	0.00	1.59	0.00	25.0	0.0	0.	0.00		
227	44.250	32.09	0.0	0.0	0.0	5.29	2.66	0.00	2.66	0.00	1.35	0.20	0.00	1.54	0.00	25.0	0.0	0.	0.00		
228	44.000	32.08	0.0	0.0	0.0	5.50	2.34	0.00	2.34	0.00	1.33	0.17	0.00	1.50	0.00	25.0	0.0	0.	0.00		
229	43.750	32.08	0.0	0.0	0.0	5.74	2.07	0.00	2.07	0.00	1.31	0.16	0.00	1.47	0.00	25.0	0.0	0.	0.00		
230	43.500	32.08	0.0	0.0	0.0	5.99	1.83	0.00	1.83	0.00	1.29	0.14	0.00	1.43	0.00	25.0	0.0	0.	0.00		
231	43.250	32.07	0.0	0.0	0.0	6.26	1.61	0.00	1.61	0.00	1.27	0.13	0.00	1.40	0.00	25.0	0.0	0.	0.00		
232	43.000	32.07	0.0	0.0	0.0	6.54	1.43	0.00	1.43	0.00	1.26	0.12	0.00	1.37	0.00	25.0	0.0	0.	0.00		
233	42.750	32.06	0.0	0.0	0.0	6.82	1.27	0.00	1.27	0.00	1.24	0.11	0.00	1.35	0.00	25.0	0.0	0.	0.00		
234	42.500	32.06	0.0	0.0	0.0	7.10	1.13	0.00	1.13	0.00	1.22	0.10	0.00	1.32	0.00	25.0	0.0	0.	0.00		
235	42.250	32.06	0.0	0.0	0.0	7.37	1.01	0.00	1.01	0.00	1.21	0.09	0.00	1.30	0.00	25.0	0.0	0.	0.00		
236	42.000	32.05	0.0	0.0	0.0	7.63	0.90	0.00	0.90	0.00	1.19	0.09	0.00	1.28	0.00	25.0	0.0	0.	0.00		
237	41.750	32.05	0.0	0.0	0.0	7.88	0.81	0.00	0.81	0.00	1.17	0.08	0.00	1.26	0.00	25.0	0.0	0.	0.00		
238	41.500	32.04	0.0	0.0	0.0	8.12	0.73	0.00	0.73	0.00	1.16	0.08	0.00	1.24	0.00	25.0	0.0	0.	0.00		
239	41.250	32.04	0.0	0.0	0.0	8.35	0.66	0.00	0.66	0.00	1.14	0.08	0.00	1.22	0.00	25.0	0.0	0.	0.00		
240	41.000	32.04	0.0	0.0	0.0	8.57	0.59	0.00	0.59	0.00	1.13	0.07	0.00	1.20	0.00	25.0	0.0	0.	0.00		
241	40.750	32.03	0.0	0.0	0.0	8.78	0.54	0.00	0.54	0.00	1.11	0.07	0.00	1.18	0.00	25.0	0.0	0.	0.00		
242	40.500	32.03	0.0	0.0	0.0	8.97	0.49	0.00	0.49	0.00	1.09	0.07	0.00	1.17	0.00	25.0	0.0	0.	0.00		
243	40.250	32.02	0.0	0.0	0.0	9.16	0.45	0.00	0.45	0.00	1.08	0.07	0.00	1.15	0.00	25.0	0.0	0.	0.00		
244	40.000	32.02	0.0	0.0	0.0	9.33	0.42	0.00	0.42	0.00	1.07	0.07	0.00	1.13	0.00	25.0	0.0	0.	0.00		
245	39.750	32.02	0.0	0.0	0.0	9.49	0.38	0.00	0.38	0.00	1.05	0.07	0.00	1.12	0.00	25.0	0.0	0.	0.00		
246	39.500	32.01	0.0	0.0	0.0	9.64	0.36	0.00	0.36	0.00	1.04	0.06	0.00	1.10	0.00	25.0	0.0	0.	0.00		
247	39.250	32.01	0.0	0.0	0.0	9.78	0.33	0.00	0.33	0.00	1.02	0.06	0.00	1.09	0.00	25.0	0.0	0.	0.00		
248	39.000	32.00	0.0	0.0	0.0	9.91	0.31	0.00	0.31	0.00	1.01	0.06	0.00	1.07	0.00	25.0	0.0	0.	0.00		
249	38.750	32.00	0.0	0.0	0.0	10.01	0.30	0.00	0.30	0.00	1.00	0.06	0.00	1.06	0.00	25.0	0.0	0.	0.00		
250	38.500	32.00	0.0	0.0	0.0	9.96	0.34	0.00	0.34	0.00	1.00	0.06	0.00	1.06	0.00	25.7	0.0	0.	0.00		
251	38.250	32.00	0.0	0.0	0.0	9.91	0.38	0.00	0.38	0.00	1.00	0.06	0.00	1.06	0.00	26.4	0.0	0.	0.00		
252	38.000	32.00	0.0	0.0	0.0	9.85	0.42	0.00	0.42	0.00	1.00	0.06	0.00	1.06	0.00	27.1	0.0	0.	0.00		
253	37.750	32.00	0.0	0.0	0.0	9.80	0.46	0.00	0.46	0.00	1.00	0.06	0.00	1.06	0.00	27.9	0.0	0.	0.00		
254	37.500	32.00	0.0	0.0	0.0	9.75	0.50	0.00	0.50	0.00	1.00	0.06	0.00	1.06	0.00	28.6	0.0	0.	0.00		
255	37.250	32.00	0.0	0.0	0.0	9.71	0.55	0.00	0.55	0.00	1.00	0.06	0.00	1.06	0.00	29.3	0.0	0.	0.00		
256	37.000	32.00	0.0	0.0	0.0	9.66	0.59	0.00	0.59	0.00	1.00	0.06	0.00	1.06	0.00	30.0	0.0	0.	0.00		
257	36.750	32.00	0.0	0.0	0.0	9.61	0.63	0.00	0.63	0.00	1.00	0.06	0.00	1.07	0.00	30.7	0.0	0.	0.00		
258	36.500	32.00	0.0	0.0	0.0	9.57	0.67	0.00	0.67	0.00	1.01	0.06	0.00	1.07	0.00	31.4	0.0	0.	0.00		
259	36.250	32.00	0.0	0.0	0.0	9.53	0.71	0.00	0.71	0.00	1.01	0.06	0.00	1.07	0.00	32.1	0.0	0.	0.00		

260	36.000	32.00	0.0	0.0	0.0	9.49	0.75	0.00	0.75	0.00	1.01	0.06	0.00	1.07	0.00	32.9	0.0	0.	0.00
261	35.750	32.00	0.0	0.0	0.0	9.44	0.79	0.00	0.79	0.00	1.01	0.06	0.00	1.07	0.00	33.6	0.0	0.	0.00
262	35.500	32.00	0.0	0.0	0.0	9.41	0.83	0.00	0.83	0.00	1.01	0.06	0.00	1.07	0.00	34.3	0.0	0.	0.00
263	35.250	32.00	0.0	0.0	0.0	9.37	0.87	0.00	0.87	0.00	1.01	0.06	0.00	1.07	0.00	35.0	0.0	0.	0.00
264	35.000	32.00	0.0	0.0	0.0	9.33	0.91	0.00	0.91	0.00	1.01	0.06	0.00	1.07	0.00	35.7	0.0	0.	0.00
265	34.750	32.00	0.0	0.0	0.0	9.29	0.94	0.00	0.94	0.00	1.01	0.06	0.00	1.07	0.00	36.4	0.0	0.	0.00
266	34.500	32.00	0.0	0.0	0.0	9.26	0.98	0.00	0.98	0.00	1.01	0.06	0.00	1.07	0.00	37.1	0.0	0.	0.00
267	34.250	32.00	0.0	0.0	0.0	9.23	1.02	0.00	1.02	0.00	1.01	0.06	0.00	1.07	0.00	37.9	0.0	0.	0.00
268	34.000	32.00	0.0	0.0	0.0	9.19	1.06	0.00	1.06	0.00	1.01	0.06	0.00	1.08	0.00	38.6	0.0	0.	0.00
269	33.750	32.00	0.0	0.0	0.0	9.16	1.09	0.00	1.09	0.00	1.02	0.06	0.00	1.08	0.00	39.3	0.0	0.	0.00
270	33.500	32.00	0.0	0.0	0.0	9.13	1.13	0.00	1.13	0.00	1.02	0.06	0.00	1.08	0.00	40.0	0.0	0.	0.00
271	33.250	32.00	0.0	0.0	0.0	9.10	1.17	0.00	1.17	0.00	1.02	0.06	0.00	1.08	0.00	40.7	0.0	0.	0.00
272	33.000	32.00	0.0	0.0	0.0	9.07	1.20	0.00	1.20	0.00	1.02	0.06	0.00	1.08	0.00	41.4	0.0	0.	0.00
273	32.750	32.00	0.0	0.0	0.0	9.05	1.24	0.00	1.24	0.00	1.02	0.06	0.00	1.08	0.00	42.1	0.0	0.	0.00
274	32.500	32.00	0.0	0.0	0.0	9.02	1.28	0.00	1.28	0.00	1.02	0.06	0.00	1.08	0.00	42.9	0.0	0.	0.00
275	32.250	32.00	0.0	0.0	0.0	8.99	1.31	0.00	1.31	0.00	1.02	0.06	0.00	1.08	0.00	43.6	0.0	0.	0.00
276	32.000	32.00	0.0	0.0	0.0	8.97	1.35	0.00	1.35	0.00	1.02	0.06	0.00	1.08	0.00	44.3	0.0	0.	0.00
277	31.750	32.00	0.0	0.0	0.0	8.95	1.38	0.00	1.38	0.00	1.02	0.06	0.00	1.08	0.00	45.0	0.0	0.	0.00
278	31.500	32.00	0.0	0.0	0.0	8.92	1.44	0.00	1.44	0.00	1.02	0.06	0.00	1.09	0.00	45.7	0.0	0.	0.00
279	31.250	32.00	0.0	0.0	0.0	8.90	1.47	0.00	1.47	0.00	1.03	0.06	0.00	1.09	0.00	46.4	0.0	0.	0.00
280	31.000	32.00	0.0	0.0	0.0	8.88	1.51	0.00	1.51	0.00	1.03	0.06	0.00	1.09	0.00	47.1	0.0	0.	0.00
281	30.750	32.00	0.0	0.0	0.0	8.86	1.54	0.00	1.54	0.00	1.03	0.06	0.00	1.09	0.00	47.9	0.0	0.	0.00
282	30.500	32.00	0.0	0.0	0.0	8.84	1.58	0.00	1.58	0.00	1.03	0.06	0.00	1.09	0.00	48.6	0.0	0.	0.00
283	30.250	32.00	0.0	0.0	0.0	8.82	1.61	0.00	1.61	0.00	1.03	0.06	0.00	1.09	0.00	49.3	0.0	0.	0.00
284	30.000	32.00	0.0	0.0	0.0	8.80	1.64	0.00	1.64	0.00	1.03	0.06	0.00	1.09	0.00	50.0	0.0	0.	0.00
285	29.750	32.00	0.0	0.0	0.0	8.76	1.65	0.00	1.65	0.00	1.03	0.06	0.00	1.09	0.00	49.8	0.0	0.	0.00
286	29.500	32.00	0.0	0.0	0.0	8.72	1.67	0.00	1.67	0.00	1.03	0.06	0.00	1.09	0.00	49.6	0.0	0.	0.00
287	29.250	32.00	0.0	0.0	0.0	8.68	1.68	0.00	1.68	0.00	1.03	0.06	0.00	1.09	0.00	49.3	0.0	0.	0.00
288	29.000	32.00	0.0	0.0	0.0	8.64	1.69	0.00	1.69	0.00	1.03	0.06	0.00	1.09	0.00	49.1	0.0	0.	0.00
289	28.750	32.00	0.0	0.0	0.0	8.60	1.70	0.00	1.70	0.00	1.03	0.06	0.00	1.09	0.00	48.9	0.0	0.	0.00
290	28.500	32.00	0.0	0.0	0.0	8.56	1.71	0.00	1.71	0.00	1.03	0.06	0.00	1.09	0.00	48.7	0.0	0.	0.00
291	28.250	31.99	0.0	0.0	0.0	8.52	1.72	0.00	1.72	0.00	1.03	0.06	0.00	1.09	0.00	48.5	0.0	0.	0.00
292	28.000	31.99	0.0	0.0	0.0	8.48	1.76	0.00	1.76	0.00	1.03	0.07	0.00	1.10	0.00	48.3	0.0	0.	0.00
293	27.750	31.99	0.0	0.0	0.0	8.44	1.77	0.00	1.77	0.00	1.03	0.07	0.00	1.10	0.00	48.0	0.0	0.	0.00
294	27.500	31.99	0.0	0.0	0.0	8.40	1.78	0.00	1.78	0.00	1.03	0.07	0.00	1.10	0.00	47.8	0.0	0.	0.00
295	27.250	31.99	0.0	0.0	0.0	8.37	1.79	0.00	1.79	0.00	1.03	0.07	0.00	1.10	0.00	47.6	0.0	0.	0.00
296	27.000	31.99	0.0	0.0	0.0	8.33	1.80	0.00	1.80	0.00	1.03	0.07	0.00	1.10	0.00	47.4	0.0	0.	0.00
297	26.750	31.99	0.0	0.0	0.0	8.29	1.81	0.00	1.81	0.00	1.03	0.07	0.00	1.10	0.00	47.2	0.0	0.	0.00
298	26.500	31.99	0.0	0.0	0.0	8.25	1.82	0.00	1.82	0.00	1.03	0.07	0.00	1.10	0.00	47.0	0.0	0.	0.00
299	26.250	31.99	0.0	0.0	0.0	8.22	1.83	0.00	1.83	0.00	1.03	0.07	0.00	1.10	0.00	46.8	0.0	0.	0.00
300	26.000	31.99	0.0	0.0	0.0	8.18	1.84	0.00	1.84	0.00	1.03	0.07	0.00	1.10	0.00	46.5	0.0	0.	0.00
301	25.750	31.99	0.0	0.0	0.0	8.15	1.85	0.00	1.85	0.00	1.03	0.07	0.00	1.10	0.00	46.3	0.0	0.	0.00
302	25.500	31.99	0.0	0.0	0.0	8.11	1.86	0.00	1.86	0.00	1.03	0.07	0.00	1.10	0.00	46.1	0.0	0.	0.00
303	25.250	31.98	0.0	0.0	0.0	8.08	1.87	0.00	1.87	0.00	1.03	0.07	0.00	1.10	0.00	45.9	0.0	0.	0.00
304	25.000	31.98	0.0	0.0	0.0	8.04	1.87	0.00	1.87	0.00	1.03	0.07	0.00	1.09	0.00	45.7	0.0	0.	0.00
305	24.750	31.98	0.0	0.0	0.0	8.01	1.88	0.00	1.88	0.00	1.03	0.07	0.00	1.09	0.00	45.5	0.0	0.	0.00
306	24.500	31.98	0.0	0.0	0.0	7.97	1.89	0.00	1.89	0.00	1.03	0.07	0.00	1.09	0.00	45.2	0.0	0.	0.00
307	24.250	31.98	0.0	0.0	0.0	7.94	1.90	0.00	1.90	0.00	1.03	0.07	0.00	1.09	0.00	45.0	0.0	0.	0.00
308	24.000	31.98	0.0	0.0	0.0	7.91	1.91	0.00	1.91	0.00	1.03	0.07	0.00	1.09	0.00	44.8	0.0	0.	0.00
309	23.750	31.98	0.0	0.0	0.0	7.87	1.92	0.00	1.92	0.00	1.03	0.07	0.00	1.09	0.00	44.6	0.0	0.	0.00

310	23.500	31.98	0.0	0.0	0.0	7.84	1.93	0.00	1.93	0.00	1.03	0.07	0.00	1.09	0.00	44.4	0.0	0.	0.00
311	23.250	31.98	0.0	0.0	0.0	7.81	1.94	0.00	1.94	0.00	1.03	0.07	0.00	1.09	0.00	44.2	0.0	0.	0.00
312	23.000	31.98	0.0	0.0	0.0	7.77	1.96	0.00	1.96	0.00	1.03	0.07	0.00	1.10	0.00	43.9	0.0	0.	0.00
313	22.750	31.98	0.0	0.0	0.0	7.74	1.97	0.00	1.97	0.00	1.03	0.07	0.00	1.10	0.00	43.7	0.0	0.	0.00
314	22.500	31.98	0.0	0.0	0.0	7.71	1.98	0.00	1.98	0.00	1.03	0.07	0.00	1.10	0.00	43.5	0.0	0.	0.00
315	22.250	31.97	0.0	0.0	0.0	7.68	1.99	0.00	1.99	0.00	1.03	0.07	0.00	1.10	0.00	43.3	0.0	0.	0.00
316	22.000	31.97	0.0	0.0	0.0	7.65	2.00	0.00	2.00	0.00	1.03	0.07	0.00	1.09	0.00	43.1	0.0	0.	0.00
317	21.750	31.97	0.0	0.0	0.0	7.61	2.01	0.00	2.01	0.00	1.03	0.07	0.00	1.09	0.00	42.8	0.0	0.	0.00
318	21.500	31.97	0.0	0.0	0.0	7.58	2.01	0.00	2.01	0.00	1.03	0.07	0.00	1.09	0.00	42.6	0.0	0.	0.00
319	21.250	31.97	0.0	0.0	0.0	7.55	2.02	0.00	2.02	0.00	1.03	0.07	0.00	1.09	0.00	42.4	0.0	0.	0.00
320	21.000	31.97	0.0	0.0	0.0	7.52	2.03	0.00	2.03	0.00	1.03	0.07	0.00	1.09	0.00	42.2	0.0	0.	0.00
321	20.750	31.97	0.0	0.0	0.0	7.49	2.04	0.00	2.04	0.00	1.03	0.07	0.00	1.09	0.00	42.0	0.0	0.	0.00
322	20.500	31.97	0.0	0.0	0.0	7.46	2.05	0.00	2.05	0.00	1.03	0.07	0.00	1.09	0.00	41.8	0.0	0.	0.00
323	20.250	31.97	0.0	0.0	0.0	7.43	2.06	0.00	2.06	0.00	1.03	0.07	0.00	1.09	0.00	41.5	0.0	0.	0.00
324	20.000	31.97	0.0	0.0	0.0	7.40	2.06	0.00	2.06	0.00	1.03	0.07	0.00	1.09	0.00	41.3	0.0	0.	0.00
325	19.750	31.97	0.0	0.0	0.0	7.38	2.07	0.00	2.07	0.00	1.03	0.07	0.00	1.09	0.00	41.1	0.0	0.	0.00
326	19.500	31.97	0.0	0.0	0.0	7.35	2.08	0.00	2.08	0.00	1.03	0.07	0.00	1.09	0.00	40.9	0.0	0.	0.00
327	19.250	31.96	0.0	0.0	0.0	7.32	2.09	0.00	2.09	0.00	1.03	0.07	0.00	1.09	0.00	40.7	0.0	0.	0.00
328	19.000	31.96	0.0	0.0	0.0	7.29	2.10	0.00	2.10	0.00	1.03	0.07	0.00	1.09	0.00	40.5	0.0	0.	0.00
329	18.750	31.96	0.0	0.0	0.0	7.26	2.10	0.00	2.10	0.00	1.03	0.07	0.00	1.09	0.00	40.2	0.0	0.	0.00
330	18.500	31.96	0.0	0.0	0.0	7.23	2.11	0.00	2.11	0.00	1.03	0.07	0.00	1.09	0.00	40.0	0.0	0.	0.00
331	18.250	31.96	0.0	0.0	0.0	7.20	2.13	0.00	2.13	0.00	1.03	0.07	0.00	1.09	0.00	39.8	0.0	0.	0.00
332	18.000	31.96	0.0	0.0	0.0	7.18	2.13	0.00	2.13	0.00	1.03	0.07	0.00	1.09	0.00	39.6	0.0	0.	0.00
333	17.750	31.96	0.0	0.0	0.0	7.15	2.14	0.00	2.14	0.00	1.03	0.07	0.00	1.09	0.00	39.4	0.0	0.	0.00
334	17.500	31.96	0.0	0.0	0.0	7.12	2.15	0.00	2.15	0.00	1.03	0.07	0.00	1.09	0.00	39.2	0.0	0.	0.00
335	17.250	31.96	0.0	0.0	0.0	7.10	2.16	0.00	2.16	0.00	1.02	0.07	0.00	1.09	0.00	39.0	0.0	0.	0.00
336	17.000	31.96	0.0	0.0	0.0	7.07	2.16	0.00	2.16	0.00	1.02	0.07	0.00	1.09	0.00	38.7	0.0	0.	0.00
337	16.750	31.96	0.0	0.0	0.0	7.04	2.17	0.00	2.17	0.00	1.02	0.07	0.00	1.09	0.00	38.5	0.0	0.	0.00
338	16.500	31.95	0.0	0.0	0.0	7.02	2.18	0.00	2.18	0.00	1.02	0.07	0.00	1.09	0.00	38.3	0.0	0.	0.00
339	16.250	31.95	0.0	0.0	0.0	6.99	2.19	0.00	2.19	0.00	1.02	0.07	0.00	1.09	0.00	38.1	0.0	0.	0.00
340	16.000	31.95	0.0	0.0	0.0	6.96	2.20	0.00	2.20	0.00	1.02	0.07	0.00	1.09	0.00	37.9	0.0	0.	0.00
341	15.750	31.95	0.0	0.0	0.0	6.94	2.21	0.00	2.21	0.00	1.02	0.07	0.00	1.09	0.00	37.7	0.0	0.	0.00
342	15.500	31.95	0.0	0.0	0.0	6.91	2.21	0.00	2.21	0.00	1.02	0.07	0.00	1.09	0.00	37.4	0.0	0.	0.00
343	15.250	31.95	0.0	0.0	0.0	6.89	2.22	0.00	2.22	0.00	1.02	0.07	0.00	1.09	0.00	37.2	0.0	0.	0.00
344	15.000	31.95	0.0	0.0	0.0	6.86	2.23	0.00	2.23	0.00	1.02	0.07	0.00	1.09	0.00	37.0	0.0	0.	0.00
345	14.750	31.95	0.0	0.0	0.0	6.83	2.24	0.00	2.24	0.00	1.02	0.07	0.00	1.09	0.00	36.8	0.0	0.	0.00
346	14.500	31.95	0.0	0.0	0.0	6.81	2.24	0.00	2.24	0.00	1.02	0.07	0.00	1.09	0.00	36.6	0.0	0.	0.00
347	14.250	31.95	0.0	0.0	0.0	6.79	2.25	0.00	2.25	0.00	1.02	0.07	0.00	1.09	0.00	36.3	0.0	0.	0.00
348	14.000	31.95	0.0	0.0	0.0	6.76	2.26	0.00	2.26	0.00	1.02	0.07	0.00	1.09	0.00	36.1	0.0	0.	0.00
349	13.750	31.95	0.0	0.0	0.0	6.74	2.26	0.00	2.26	0.00	1.02	0.07	0.00	1.09	0.00	35.9	0.0	0.	0.00
350	13.500	31.94	0.0	0.0	0.0	6.71	2.27	0.00	2.27	0.00	1.02	0.07	0.00	1.09	0.00	35.7	0.0	0.	0.00
351	13.250	31.94	0.0	0.0	0.0	6.69	2.28	0.00	2.28	0.00	1.02	0.07	0.00	1.09	0.00	35.5	0.0	0.	0.00
352	13.000	31.94	0.0	0.0	0.0	6.65	2.48	0.00	2.48	0.00	1.03	0.14	0.00	1.17	0.00	35.3	0.0	0.	0.00
353	12.750	31.94	0.0	0.0	0.0	6.63	2.49	0.00	2.49	0.00	1.03	0.14	0.00	1.17	0.00	35.0	0.0	0.	0.00
354	12.500	31.94	0.0	0.0	0.0	6.60	2.49	0.00	2.49	0.00	1.03	0.14	0.00	1.17	0.00	34.8	0.0	0.	0.00
355	12.250	31.94	0.0	0.0	0.0	6.57	2.50	0.00	2.50	0.00	1.03	0.14	0.00	1.17	0.00	34.6	0.0	0.	0.00
356	12.000	31.94	0.0	0.0	0.0	6.54	2.50	0.00	2.50	0.00	1.03	0.14	0.00	1.17	0.00	34.4	0.0	0.	0.00
357	11.750	31.94	0.0	0.0	0.0	6.52	2.51	0.00	2.51	0.00	1.03	0.13	0.00	1.17	0.00	34.2	0.0	0.	0.00
358	11.500	31.94	0.0	0.0	0.0	6.49	2.51	0.00	2.51	0.00	1.03	0.13	0.00	1.17	0.00	34.0	0.0	0.	0.00
359	11.250	31.94	0.0	0.0	0.0	6.46	2.52	0.00	2.52	0.00	1.03	0.13	0.00	1.17	0.00	33.8	0.0	0.	0.00

360	11.000	31.94	0.0	0.0	0.0	6.44	2.52	0.00	2.52	0.00	1.03	0.13	0.00	1.17	0.00	33.5	0.0	0.	0.00
361	10.750	31.94	0.0	0.0	0.0	6.41	2.53	0.00	2.53	0.00	1.03	0.13	0.00	1.17	0.00	33.3	0.0	0.	0.00
362	10.500	31.93	0.0	0.0	0.0	6.39	2.53	0.00	2.53	0.00	1.03	0.13	0.00	1.16	0.00	33.1	0.0	0.	0.00
363	10.250	31.93	0.0	0.0	0.0	6.36	2.54	0.00	2.54	0.00	1.03	0.13	0.00	1.16	0.00	32.9	0.0	0.	0.00
364	10.000	31.93	0.0	0.0	0.0	6.34	2.54	0.00	2.54	0.00	1.03	0.13	0.00	1.16	0.00	32.7	0.0	0.	0.00
365	9.750	31.93	0.0	0.0	0.0	6.31	2.55	0.00	2.55	0.00	1.03	0.13	0.00	1.16	0.00	32.5	0.0	0.	0.00
366	9.500	31.93	0.0	0.0	0.0	6.29	2.55	0.00	2.55	0.00	1.03	0.13	0.00	1.16	0.00	32.2	0.0	0.	0.00
367	9.250	31.93	0.0	0.0	0.0	6.26	2.56	0.00	2.56	0.00	1.03	0.13	0.00	1.16	0.00	32.0	0.0	0.	0.00
368	9.000	31.93	0.0	0.0	0.0	6.24	2.56	0.00	2.56	0.00	1.03	0.13	0.00	1.16	0.00	31.8	0.0	0.	0.00
369	8.750	31.93	0.0	0.0	0.0	6.21	2.58	0.00	2.58	0.00	1.03	0.13	0.00	1.16	0.00	31.6	0.0	0.	0.00
370	8.500	31.93	0.0	0.0	0.0	6.19	2.58	0.00	2.58	0.00	1.03	0.13	0.00	1.16	0.00	31.4	0.0	0.	0.00
371	8.250	31.93	0.0	0.0	0.0	6.17	2.59	0.00	2.59	0.00	1.03	0.13	0.00	1.16	0.00	31.1	0.0	0.	0.00
372	8.000	31.93	0.0	0.0	0.0	6.14	2.59	0.00	2.59	0.00	1.03	0.13	0.00	1.16	0.00	30.9	0.0	0.	0.00
373	7.750	31.93	0.0	0.0	0.0	6.31	2.81	0.00	2.81	0.00	1.05	0.12	0.00	1.17	0.00	30.7	0.0	0.	0.00
374	7.500	31.92	0.0	0.0	0.0	6.29	2.81	0.00	2.81	0.00	1.05	0.12	0.00	1.17	0.00	30.5	0.0	0.	0.00
375	7.250	31.92	0.0	0.0	0.0	6.26	2.82	0.00	2.82	0.00	1.05	0.12	0.00	1.17	0.00	30.3	0.0	0.	0.00
376	7.000	31.92	0.0	0.0	0.0	6.23	2.82	0.00	2.82	0.00	1.05	0.12	0.00	1.17	0.00	30.1	0.0	0.	0.00
377	6.750	31.92	0.0	0.0	0.0	6.21	2.82	0.00	2.82	0.00	1.05	0.12	0.00	1.17	0.00	29.9	0.0	0.	0.00
378	6.500	31.92	0.0	0.0	0.0	6.18	2.82	0.00	2.82	0.00	1.05	0.12	0.00	1.17	0.00	29.6	0.0	0.	0.00
379	6.250	31.92	0.0	0.0	0.0	6.16	2.83	0.00	2.83	0.00	1.05	0.12	0.00	1.17	0.00	29.4	0.0	0.	0.00
380	6.000	31.92	0.0	0.0	0.0	6.13	2.83	0.00	2.83	0.00	1.05	0.12	0.00	1.17	0.00	29.2	0.0	0.	0.00
381	5.750	31.92	0.0	0.0	0.0	6.11	2.83	0.00	2.83	0.00	1.05	0.12	0.00	1.17	0.00	29.0	0.0	0.	0.00
382	5.500	31.92	0.0	0.0	0.0	6.08	2.84	0.00	2.84	0.00	1.05	0.12	0.00	1.17	0.00	28.8	0.0	0.	0.00
383	5.250	31.92	0.0	0.0	0.0	6.06	2.84	0.00	2.84	0.00	1.05	0.12	0.00	1.17	0.00	28.5	0.0	0.	0.00
384	5.000	31.92	0.0	0.0	0.0	6.03	2.84	0.00	2.84	0.00	1.05	0.12	0.00	1.17	0.00	28.3	0.0	0.	0.00
385	4.750	31.92	0.0	0.0	0.0	6.01	2.84	0.00	2.84	0.00	1.05	0.12	0.00	1.17	0.00	28.1	0.0	0.	0.00
386	4.500	31.91	0.0	0.0	0.0	5.99	2.85	0.00	2.85	0.00	1.05	0.12	0.00	1.16	0.00	27.9	0.0	0.	0.00
387	4.250	31.91	0.0	0.0	0.0	5.96	2.85	0.00	2.85	0.00	1.05	0.12	0.00	1.16	0.00	27.7	0.0	0.	0.00
388	4.000	31.91	0.0	0.0	0.0	5.94	2.85	0.00	2.85	0.00	1.05	0.12	0.00	1.16	0.00	27.5	0.0	0.	0.00
389	3.750	31.91	0.0	0.0	0.0	5.92	2.86	0.00	2.86	0.00	1.05	0.12	0.00	1.16	0.00	27.2	0.0	0.	0.00
390	3.500	31.91	0.0	0.0	0.0	5.89	2.86	0.00	2.86	0.00	1.05	0.12	0.00	1.16	0.00	27.0	0.0	0.	0.00
391	3.250	31.91	0.0	0.0	0.0	5.87	2.86	0.00	2.86	0.00	1.05	0.12	0.00	1.16	0.00	26.8	0.0	0.	0.00
392	3.000	31.91	0.0	0.0	0.0	5.85	2.86	0.00	2.86	0.00	1.05	0.12	0.00	1.16	0.00	26.6	0.0	0.	0.00
393	2.750	31.91	0.0	0.0	0.0	5.82	2.87	0.00	2.87	0.00	1.05	0.11	0.00	1.16	0.00	26.4	0.0	0.	0.00
394	2.500	31.91	0.0	0.0	0.0	5.80	2.87	0.00	2.87	0.00	1.05	0.11	0.00	1.16	0.00	26.2	0.0	0.	0.00
395	2.250	31.91	0.0	0.0	0.0	5.78	2.87	0.00	2.87	0.00	1.05	0.11	0.00	1.16	0.00	25.9	0.0	0.	0.00
396	2.000	31.91	0.0	0.0	0.0	5.76	2.88	0.00	2.88	0.00	1.05	0.11	0.00	1.16	0.00	25.7	0.0	0.	0.00
397	1.750	31.91	0.0	0.0	0.0	5.73	2.88	0.00	2.88	0.00	1.05	0.11	0.00	1.16	0.00	25.5	0.0	0.	0.00
398	1.500	31.90	0.0	0.0	0.0	5.71	2.88	0.00	2.88	0.00	1.04	0.11	0.00	1.16	0.00	25.3	0.0	0.	0.00
399	1.250	31.90	0.0	0.0	0.0	5.69	2.88	0.00	2.88	0.00	1.04	0.11	0.00	1.16	0.00	25.1	0.0	0.	0.00
400	1.000	31.90	0.0	0.0	0.0	5.67	2.89	0.00	2.89	0.00	1.04	0.11	0.00	1.16	0.00	24.9	0.0	0.	0.00
401	0.750	31.90	0.0	0.0	0.0	5.59	3.46	0.00	3.46	0.00	1.10	0.11	0.00	1.21	0.00	24.6	0.0	0.	0.00
402	0.500	31.90	0.0	0.0	0.0	5.57	3.46	0.00	3.46	0.00	1.10	0.11	0.00	1.21	0.00	24.4	0.0	0.	0.00
403	0.250	31.90	0.0	0.0	0.0	5.54	3.46	0.00	3.46	0.00	1.10	0.11	0.00	1.21	0.00	24.2	0.0	0.	0.00
404	0.000	31.90	0.0	0.0	0.0	5.52	3.46	0.00	3.46	0.00	1.10	0.11	0.00	1.21	0.00	24.0	0.0	0.	0.00

SPECIAL REPORT: ICWW

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#1 SETT	BOD#2 DECAY	ABOD#2 SOD	FULL SOD	CORR DECAY	ORG-N SETT	ORG-N DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	km	mg/L	1/da	1/da	1/da	1/da	1/da	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da			

1	93.750	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
2	93.500	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
3	93.250	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
4	93.000	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
5	92.750	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
6	92.500	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
7	92.250	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
8	92.000	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
9	91.750	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
10	91.500	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
11	91.250	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
12	91.000	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
13	90.750	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
14	90.500	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
15	90.250	7.36	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
16	90.000	7.36	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
17	89.750	7.36	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
18	89.500	7.36	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
19	89.250	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
20	89.000	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
21	88.750	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
22	88.500	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
23	88.250	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
24	88.000	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
25	87.750	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
26	87.500	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
27	87.250	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
28	87.000	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
29	86.750	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
30	86.500	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
31	86.250	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
32	86.000	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
33	85.750	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
34	85.500	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
35	85.250	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
36	85.000	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
37	84.750	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
38	84.500	7.30	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
39	84.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
40	84.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
41	83.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
42	83.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
43	83.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
44	83.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
45	82.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
46	82.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
47	82.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
48	82.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
49	81.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
50	81.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

51	81.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
52	81.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
53	80.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
54	80.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
55	80.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
56	80.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
57	79.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
58	79.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
59	79.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
60	79.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
61	78.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
62	78.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
63	78.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
64	78.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
65	77.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
66	77.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
67	77.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
68	77.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
69	76.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
70	76.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
71	76.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
72	76.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
73	75.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
74	75.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
75	75.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
76	75.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
77	74.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
78	74.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
79	74.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
80	74.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
81	73.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
82	73.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
83	73.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
84	73.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
85	72.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
86	72.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
87	72.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
88	72.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
89	71.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
90	71.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
91	71.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.86	3.86	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
92	71.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.86	3.86	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
93	70.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.86	3.86	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
94	70.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.86	3.86	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
95	70.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.86	3.86	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
96	70.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.86	3.86	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
97	69.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
98	69.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
99	69.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
100	69.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00

101	68.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
102	68.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
103	68.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
104	68.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
105	67.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
106	67.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
107	67.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
108	67.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
109	66.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
110	66.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
111	66.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
112	66.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
113	65.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
114	65.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
115	65.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
116	65.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
117	64.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
118	64.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
119	64.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
120	64.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
121	63.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
122	63.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
123	63.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
124	63.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
125	62.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
126	62.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
127	62.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
128	62.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.91	3.91	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
129	61.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.28	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
130	61.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
131	61.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
132	61.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
133	60.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
134	60.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
135	60.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
136	60.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
137	59.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
138	59.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
139	59.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
140	59.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
141	58.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
142	58.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
143	58.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
144	58.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
145	57.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	0.03	0.00	0.27	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
146	57.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
147	57.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
148	57.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
149	56.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
150	56.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	0.03	0.00	0.28	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00

151	56.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	0.03	0.00	0.28	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
152	56.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
153	55.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
154	55.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
155	55.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
156	55.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
157	54.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
158	54.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
159	54.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
160	54.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
161	53.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
162	53.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
163	53.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
164	53.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
165	52.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
166	52.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
167	52.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
168	52.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
169	51.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	0.03	0.00	0.28	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
170	51.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	0.03	0.00	0.28	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
171	51.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
172	51.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
173	50.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
174	50.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
175	50.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
176	50.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
177	49.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
178	49.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
179	49.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
180	49.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
181	48.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
182	48.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
183	48.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
184	48.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
185	47.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
186	47.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
187	47.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
188	47.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
189	46.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
190	46.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
191	46.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
192	46.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
193	45.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
194	45.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
195	45.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
196	45.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
197	44.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
198	44.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
199	44.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
200	44.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00

201	43.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
202	43.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
203	43.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
204	43.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
205	42.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
206	42.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
207	42.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
208	42.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
209	41.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
210	41.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
211	41.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
212	41.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
213	40.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
214	40.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
215	40.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
216	40.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
217	39.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
218	39.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
219	39.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.55	4.55	0.03	0.00	0.28	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
220	39.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.55	4.55	0.03	0.00	0.28	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
221	38.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.55	4.55	0.03	0.00	0.28	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
222	38.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.55	4.55	0.03	0.00	0.28	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
223	38.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.55	4.55	0.03	0.00	0.28	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
224	38.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.55	4.55	0.03	0.00	0.28	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
405	37.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
406	37.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
407	37.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
408	37.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
409	36.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
410	36.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
411	36.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
412	36.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
413	35.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
414	35.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
415	35.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
416	35.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
417	34.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
418	34.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
419	34.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
420	34.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
421	33.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
422	33.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
423	33.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
424	33.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
425	32.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
426	32.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
427	32.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
428	32.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
429	31.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
430	31.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00

431	31.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
432	31.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
433	30.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
434	30.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
435	30.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
436	30.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
437	29.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
438	29.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
439	29.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
440	29.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
441	28.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
442	28.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
443	28.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
444	28.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
445	27.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
446	27.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
447	27.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
448	27.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
449	26.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
450	26.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
451	26.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
452	26.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
453	25.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
454	25.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
455	25.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
456	25.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
457	24.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
458	24.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
459	24.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
460	24.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
461	23.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
462	23.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
463	23.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
464	23.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
465	22.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
466	22.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
467	22.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
468	22.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
469	21.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
470	21.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
471	21.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
472	21.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
473	20.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
474	20.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
475	20.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
476	20.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
477	19.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
478	19.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
479	19.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
480	19.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00

481	18.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
482	18.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
483	18.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
484	18.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
485	17.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
486	17.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
487	17.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
488	17.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
489	16.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
490	16.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
491	16.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
492	16.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
493	15.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
494	15.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
495	15.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
496	15.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
497	14.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
498	14.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
499	14.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
500	14.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
501	13.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
502	13.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
503	13.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
504	13.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
505	12.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
506	12.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
507	12.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
508	12.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
509	11.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
510	11.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
511	11.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
512	11.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
513	10.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
514	10.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
515	10.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
516	10.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
517	9.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
518	9.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
519	9.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
520	9.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
521	8.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
522	8.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
523	8.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
524	8.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
525	7.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
526	7.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
527	7.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
528	7.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
529	6.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
530	6.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00

531	6.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
532	6.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
533	5.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
534	5.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
535	5.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
536	5.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
537	4.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
538	4.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
539	4.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
540	4.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
541	3.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
542	3.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
543	3.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
544	3.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
545	2.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
546	2.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
547	2.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
548	2.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
549	1.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
550	1.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
551	1.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.27	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
552	1.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.27	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
553	0.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
554	0.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
555	0.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
556	0.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00

SPECIAL REPORT: Bayou Black

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#1 SETT	BOD#2 DECAY	ABOD#2 SOD	FULL SOD	CORR DECAY	ORG-N SETT	ORG-N DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	km	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da	
225	44.750	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.42	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
226	44.500	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.42	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
227	44.250	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.42	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
228	44.000	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.42	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
229	43.750	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.43	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
230	43.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.43	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
231	43.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.43	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
232	43.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.44	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
233	42.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.44	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
234	42.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.44	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
235	42.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
236	42.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
237	41.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
238	41.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
239	41.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
240	41.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
241	40.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
242	40.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
243	40.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00

244	40.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
245	39.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
246	39.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
247	39.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
248	39.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
249	38.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
250	38.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
251	38.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
252	38.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
253	37.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
254	37.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
255	37.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
256	37.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
257	36.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
258	36.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
259	36.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
260	36.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
261	35.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
262	35.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
263	35.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
264	35.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
265	34.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
266	34.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
267	34.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
268	34.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
269	33.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
270	33.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00
271	33.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
272	33.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
273	32.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
274	32.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
275	32.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
276	32.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
277	31.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
278	31.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
279	31.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
280	31.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
281	30.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
282	30.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
283	30.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
284	30.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00
285	29.750	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
286	29.500	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00
287	29.250	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.00
288	29.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
289	28.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.21	0.00	0.00	0.00	0.00
290	28.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00
291	28.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
292	28.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00
293	27.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00

294	27.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
295	27.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
296	27.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.14	0.00	0.00	0.00	0.00
297	26.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
298	26.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00
299	26.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00
300	26.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00
301	25.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
302	25.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00
303	25.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00
304	25.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
305	24.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00
306	24.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.04	0.00	0.00	0.00	0.00
307	24.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
308	24.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
309	23.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00
310	23.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
311	23.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.99	0.00	0.00	0.00	0.00
312	23.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00
313	22.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
314	22.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.96	0.00	0.00	0.00	0.00
315	22.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00
316	22.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.94	0.00	0.00	0.00	0.00
317	21.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
318	21.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
319	21.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.91	0.00	0.00	0.00	0.00
320	21.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
321	20.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.89	0.00	0.00	0.00	0.00
322	20.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00
323	20.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
324	20.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.86	0.00	0.00	0.00	0.00
325	19.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
326	19.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
327	19.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
328	19.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
329	18.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
330	18.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00
331	18.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.79	0.00	0.00	0.00	0.00
332	18.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.00
333	17.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
334	17.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00
335	17.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00
336	17.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
337	16.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
338	16.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
339	16.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
340	16.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
341	15.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
342	15.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
343	15.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00

344	15.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00
345	14.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
346	14.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
347	14.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
348	14.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00
349	13.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
350	13.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
351	13.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
352	13.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
353	12.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
354	12.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.57	0.00	0.00	0.00	0.00
355	12.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
356	12.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
357	11.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.00
358	11.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.53	0.00	0.00	0.00	0.00
359	11.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
360	11.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
361	10.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00
362	10.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
363	10.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
364	10.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
365	9.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
366	9.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
367	9.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00
368	9.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
369	8.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
370	8.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
371	8.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
372	8.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
373	7.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
374	7.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
375	7.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
376	7.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
377	6.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
378	6.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
379	6.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
380	6.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
381	5.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
382	5.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
383	5.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
384	5.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
385	4.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
386	4.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
387	4.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
388	4.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
389	3.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
390	3.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
391	3.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
392	3.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
393	2.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00

394	2.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
395	2.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00
396	2.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
397	1.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
398	1.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
399	1.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
400	1.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
401	0.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
402	0.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
403	0.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
404	0.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00

FINAL REPORT ICWW LA-QUAL TMDL for Gulf ICWW and Bayou Black

REACH NO. 1 Gulf ICWW

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

ELEM NO.	TYPE	FLOW	TEMP	SALN	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NCM
		deg C	ppt		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL	
1	HDWTR	0.65100	30.60	0.00	0.00	0.00	6.70	3.70	0.00	3.70	0.00	1.30	0.10	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.02632	30.00	0.00	0.00	0.00	7.22	6.67	0.00			1.40	0.10	0.00	0.00	0.00	0.00	

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

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	PCT EFF	ADVCTV VELO	TRAVEL TIME	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	TIDAL PRISM	TIDAL VELO	DISPRSN	MEAN VELO
	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
1	94.00	93.75	0.67732	0.0	0.00040	7.25	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
2	93.75	93.50	0.70363	0.0	0.00041	6.98	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
3	93.50	93.25	0.72995	0.0	0.00043	6.73	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
4	93.25	93.00	0.75626	0.0	0.00045	6.49	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
5	93.00	92.75	0.78258	0.0	0.00046	6.28	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
6	92.75	92.50	0.80889	0.0	0.00048	6.07	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
7	92.50	92.25	0.83521	0.0	0.00049	5.88	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.000
8	92.25	92.00	0.86153	0.0	0.00051	5.70	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
9	92.00	91.75	0.88784	0.0	0.00052	5.53	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
10	91.75	91.50	0.91416	0.0	0.00054	5.37	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
11	91.50	91.25	0.94047	0.0	0.00055	5.22	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
12	91.25	91.00	0.96679	0.0	0.00057	5.08	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
13	91.00	90.75	0.99311	0.0	0.00059	4.94	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
14	90.75	90.50	1.01942	0.0	0.00060	4.82	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
15	90.50	90.25	1.04574	0.0	0.00062	4.70	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
16	90.25	90.00	1.07205	0.0	0.00063	4.58	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
17	90.00	89.75	1.09837	0.0	0.00065	4.47	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
18	89.75	89.50	1.12468	0.0	0.00066	4.37	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
19	89.50	89.25	1.15100	0.0	0.00068	4.27	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
20	89.25	89.00	1.17732	0.0	0.00069	4.17	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
21	89.00	88.75	1.20363	0.0	0.00071	4.08	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
22	88.75	88.50	1.22995	0.0	0.00072	3.99	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
23	88.50	88.25	1.25626	0.0	0.00074	3.91	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
24	88.25	88.00	1.28258	0.0	0.00076	3.83	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
25	88.00	87.75	1.30890	0.0	0.00077	3.75	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
26	87.75	87.50	1.33521	0.0	0.00079	3.68	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
27	87.50	87.25	1.36153	0.0	0.00080	3.61	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001
28	87.25	87.00	1.38784	0.0	0.00082	3.54	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001

29	87.00	86.75	1.41416	0.0	0.00083	3.47	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001	
30	86.75	86.50	1.44047	0.0	0.00085	3.41	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001	
31	86.50	86.25	1.46679	0.0	0.00086	3.35	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001	
32	86.25	86.00	1.49311	0.0	0.00088	3.29	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001	
33	86.00	85.75	1.51942	0.0	0.00090	3.23	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001	
34	85.75	85.50	1.54574	0.0	0.00091	3.18	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001	
35	85.50	85.25	1.57205	0.0	0.00093	3.12	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001	
36	85.25	85.00	1.59837	0.0	0.00094	3.07	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001	
37	85.00	84.75	1.62468	0.0	0.00096	3.02	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001	
38	84.75	84.50	1.65100	0.0	0.00097	2.97	9.30	182.49	424289.28	45622.50	1697.16	0.00	0.000	0.900	0.001	
TOT					171.40				16122990.00	1733655.00						
AVG				0.0006		9.30	182.49				1697.16					
CUM					171.40											

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da			
1	93.750	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
2	93.500	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
3	93.250	7.40	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.03	2.03	2.03	0.02	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
4	93.000	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
5	92.750	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
6	92.500	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
7	92.250	7.39	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.04	2.04	2.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
8	92.000	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
9	91.750	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
10	91.500	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
11	91.250	7.38	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.05	2.05	2.05	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
12	91.000	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
13	90.750	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
14	90.500	7.37	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.06	2.06	2.06	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
15	90.250	7.36	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
16	90.000	7.36	0.09	0.25	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
17	89.750	7.36	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	
18	89.500	7.36	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.07	2.07	2.07	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
19	89.250	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
20	89.000	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
21	88.750	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
22	88.500	7.35	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
23	88.250	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
24	88.000	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
25	87.750	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.09	2.09	2.09	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
26	87.500	7.34	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
27	87.250	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
28	87.000	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
29	86.750	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.10	2.10	2.10	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
30	86.500	7.33	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
31	86.250	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
32	86.000	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.11	2.11	2.11	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
33	85.750	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	

34	85.500	7.32	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
35	85.250	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
36	85.000	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.12	2.12	2.12	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
37	84.750	7.31	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
38	84.500	7.30	0.09	0.26	0.00	0.00	0.00	0.00	0.00	2.13	2.13	2.13	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.08	0.15	0.00	0.00	0.00	0.00	0.00	1.00			0.02	0.00	0.13	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT		CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL				
1	93.750	31.22	0.00	0.00	0.00	6.47	2.55	0.00	2.55	0.00	1.30	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
2	93.500	31.24	0.00	0.00	0.00	6.47	2.47	0.00	2.47	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
3	93.250	31.26	0.00	0.00	0.00	6.49	2.42	0.00	2.42	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
4	93.000	31.28	0.00	0.00	0.00	6.51	2.38	0.00	2.38	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00	
5	92.750	31.31	0.00	0.00	0.00	6.53	2.36	0.00	2.36	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00	
6	92.500	31.33	0.00	0.00	0.00	6.55	2.34	0.00	2.34	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00	
7	92.250	31.35	0.00	0.00	0.00	6.58	2.33	0.00	2.33	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00	
8	92.000	31.37	0.00	0.00	0.00	6.59	2.32	0.00	2.32	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00	
9	91.750	31.39	0.00	0.00	0.00	6.61	2.31	0.00	2.31	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00	
10	91.500	31.41	0.00	0.00	0.00	6.63	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00	
11	91.250	31.43	0.00	0.00	0.00	6.64	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00	
12	91.000	31.45	0.00	0.00	0.00	6.65	2.30	0.00	2.30	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
13	90.750	31.47	0.00	0.00	0.00	6.66	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
14	90.500	31.49	0.00	0.00	0.00	6.67	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
15	90.250	31.52	0.00	0.00	0.00	6.68	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
16	90.000	31.54	0.00	0.00	0.00	6.69	2.29	0.00	2.29	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
17	89.750	31.56	0.00	0.00	0.00	6.69	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
18	89.500	31.58	0.00	0.00	0.00	6.70	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
19	89.250	31.60	0.00	0.00	0.00	6.70	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
20	89.000	31.62	0.00	0.00	0.00	6.71	2.28	0.00	2.28	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
21	88.750	31.64	0.00	0.00	0.00	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
22	88.500	31.66	0.00	0.00	0.00	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
23	88.250	31.68	0.00	0.00	0.00	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
24	88.000	31.71	0.00	0.00	0.00	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.42	0.00	20.00	0.00	0.	0.00	
25	87.750	31.73	0.00	0.00	0.00	6.71	2.27	0.00	2.27	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00	
26	87.500	31.75	0.00	0.00	0.00	6.70	2.26	0.00	2.26	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00	
27	87.250	31.77	0.00	0.00	0.00	6.70	2.26	0.00	2.26	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00	
28	87.000	31.79	0.00	0.00	0.00	6.68	2.26	0.00	2.26	0.00	1.31	0.12	0.00	1.43	0.00	20.00	0.00	0.	0.00	
29	86.750	31.81	0.00	0.00	0.00	6.66	2.26	0.00	2.26	0.00	1.32	0.12	0.00	1.44	0.00	20.00	0.00	0.	0.00	
30	86.500	31.83	0.00	0.00	0.00	6.64	2.26	0.00	2.26	0.00	1.32	0.12	0.00	1.44	0.00	20.00	0.00	0.	0.00	
31	86.250	31.85	0.00	0.00	0.00	6.60	2.27	0.00	2.27	0.00	1.33	0.12	0.00	1.45	0.00	20.00	0.00	0.	0.00	
32	86.000	31.87	0.00	0.00	0.00	6.54	2.28	0.00	2.28	0.00	1.34	0.12	0.00	1.46	0.00	20.00	0.00	0.	0.00	
33	85.750	31.89	0.00	0.00	0.00	6.46	2.29	0.00	2.29	0.00	1.35	0.12	0.00	1.47	0.00	20.00	0.00	0.	0.00	
34	85.500	31.92	0.00	0.00	0.00	6.35	2.33	0.00	2.33	0.00	1.36	0.12	0.00	1.49	0.00	20.00	0.00	0.	0.00	
35	85.250	31.94	0.00	0.00	0.00	6.20	2.38	0.00	2.38	0.00	1.39	0.12	0.00	1.51	0.00	20.00	0.00	0.	0.00	
36	85.000	31.96	0.00	0.00	0.00	6.00	2.48	0.00	2.48	0.00	1.41	0.12	0.00	1.54	0.00	20.00	0.00	0.	0.00	
37	84.750	31.98	0.00	0.00	0.00	5.75	2.66	0.00	2.66	0.00	1.45	0.12	0.00	1.57	0.00	20.00	0.00	0.	0.00	
38	84.500	32.00	0.00	0.00	0.00	5.43	2.97	0.00	2.97	0.00	1.51	0.12	0.00	1.62	0.00	20.00	0.00	0.	0.00	

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

ELEM NO.	TYPE	FLOW	TEMP	SALN	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NCM
		deg C	ppt		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL			
39	UPR RCH	1.65100	32.00	0.00	0.00	0.00	5.43	2.97	0.00	2.97	0.00	1.51	0.12	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.01644	30.00	0.00	0.00	0.00	7.22	3.00	0.00			1.40	0.10	0.00	0.00	0.00	0.00	
39	WSTLD	48.61291	30.00	0.00	0.00	0.00	5.00	3.70	0.00	3.70	0.00	1.60	0.10	0.00	0.00	0.00	0.00	0.00
57	WSTLD	-61.60840	32.04	0.00	0.00	0.00	5.66	2.81	0.00	2.81	0.00	1.39	0.12	0.00	0.00	20.00	0.00	0.00
89	WSTLD	1.65157	30.00	0.00	0.00	0.00	6.60	6.20	0.00	6.20	0.00	1.40	0.10	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	PCT EFF	ADVCTV VELO	TRAVEL TIME	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	TIDAL PRISM	TIDAL VELO	DISPRSN VELO	MEAN
	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
39	84.50	84.25	50.28035	96.7	0.01802	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
40	84.25	84.00	50.29679	96.7	0.01802	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
41	84.00	83.75	50.31324	96.6	0.01803	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
42	83.75	83.50	50.32968	96.6	0.01803	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
43	83.50	83.25	50.34612	96.6	0.01804	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
44	83.25	83.00	50.36256	96.5	0.01804	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
45	83.00	82.75	50.37900	96.5	0.01805	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
46	82.75	82.50	50.39544	96.5	0.01806	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
47	82.50	82.25	50.41188	96.4	0.01806	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
48	82.25	82.00	50.42833	96.4	0.01807	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
49	82.00	81.75	50.44477	96.4	0.01807	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
50	81.75	81.50	50.46121	96.3	0.01808	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
51	81.50	81.25	50.47765	96.3	0.01809	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
52	81.25	81.00	50.49409	96.3	0.01809	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
53	81.00	80.75	50.51053	96.2	0.01810	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
54	80.75	80.50	50.52697	96.2	0.01810	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
55	80.50	80.25	50.54342	96.2	0.01811	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
56	80.25	80.00	50.55986	96.1	0.01812	0.16	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.018
57	80.00	79.75	-11.03210	96.1	-0.00395	-0.73	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
58	79.75	79.50	-11.01566	96.3	-0.00395	-0.73	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
59	79.50	79.25	-10.99922	96.4	-0.00394	-0.73	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
60	79.25	79.00	-10.98277	96.5	-0.00394	-0.74	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
61	79.00	78.75	-10.96633	96.7	-0.00393	-0.74	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
62	78.75	78.50	-10.94989	96.8	-0.00392	-0.74	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
63	78.50	78.25	-10.93345	97.0	-0.00392	-0.74	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
64	78.25	78.00	-10.91700	97.1	-0.00391	-0.74	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
65	78.00	77.75	-10.90056	97.3	-0.00391	-0.74	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
66	77.75	77.50	-10.88412	97.4	-0.00390	-0.74	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
67	77.50	77.25	-10.86768	97.6	-0.00389	-0.74	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
68	77.25	77.00	-10.85124	97.7	-0.00389	-0.74	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
69	77.00	76.75	-10.83479	97.9	-0.00388	-0.75	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
70	76.75	76.50	-10.81835	98.0	-0.00388	-0.75	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
71	76.50	76.25	-10.80191	98.2	-0.00387	-0.75	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
72	76.25	76.00	-10.78547	98.3	-0.00386	-0.75	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
73	76.00	75.75	-10.76902	98.5	-0.00386	-0.75	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
74	75.75	75.50	-10.75258	98.6	-0.00385	-0.75	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
75	75.50	75.25	-10.73614	98.8	-0.00385	-0.75	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
76	75.25	75.00	-10.71970	98.9	-0.00384	-0.75	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004

77	75.00	74.75	-10.70325	99.1	-0.00383	-0.75	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
78	74.75	74.50	-10.68681	99.2	-0.00383	-0.76	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
79	74.50	74.25	-10.67037	99.4	-0.00382	-0.76	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
80	74.25	74.00	-10.65393	99.5	-0.00382	-0.76	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
81	74.00	73.75	-10.63749	99.7	-0.00381	-0.76	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
82	73.75	73.50	-10.62104	99.8	-0.00381	-0.76	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
83	73.50	73.25	-10.60460	100.0	-0.00380	-0.76	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
84	73.25	73.00	-10.58816	100.1	-0.00379	-0.76	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
85	73.00	72.75	-10.57172	100.3	-0.00379	-0.76	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
86	72.75	72.50	-10.55527	100.5	-0.00378	-0.77	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
87	72.50	72.25	-10.53883	100.6	-0.00378	-0.77	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
88	72.25	72.00	-10.52239	100.8	-0.00377	-0.77	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.004
89	72.00	71.75	-8.85438	101.1	-0.00317	-0.91	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.003
90	71.75	71.50	-8.83793	101.3	-0.00317	-0.91	13.35	209.06	697737.75	52265.00	2790.95	0.00	0.000	0.500	0.003
TOT						-22.93			36282368.00	2717780.00					
AVG					-0.0066		13.35	209.06			2790.95				
CUM						148.47									

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da			
39	84.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
40	84.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
41	83.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
42	83.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
43	83.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
44	83.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
45	82.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
46	82.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
47	82.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
48	82.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
49	81.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
50	81.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
51	81.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
52	81.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
53	80.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
54	80.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
55	80.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
56	80.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
57	79.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
58	79.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
59	79.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
60	79.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
61	78.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
62	78.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
63	78.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
64	78.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
65	77.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
66	77.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
67	77.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	

68	77.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
69	76.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
70	76.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
71	76.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
72	76.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
73	75.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
74	75.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
75	75.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
76	75.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
77	74.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
78	74.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
79	74.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
80	74.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
81	73.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
82	73.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
83	73.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
84	73.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
85	72.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.29	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
86	72.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
87	72.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
88	72.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
89	71.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
90	71.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	1.07	1.07	1.07	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.05	0.15	0.00	0.00	0.00	0.00	0.00	0.50			0.02	0.00	0.13	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT		CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³			#/100mL	
39	84.250	32.00	0.00	0.00	0.00	5.05	3.55	0.00	3.55	0.00	1.58	0.10	0.00	1.69	0.00	20.00	0.00	0.	0.00	
40	84.000	32.00	0.00	0.00	0.00	5.04	3.50	0.00	3.50	0.00	1.58	0.11	0.00	1.69	0.00	20.00	0.00	0.	0.00	
41	83.750	32.01	0.00	0.00	0.00	5.03	3.46	0.00	3.46	0.00	1.58	0.11	0.00	1.68	0.00	20.00	0.00	0.	0.00	
42	83.500	32.01	0.00	0.00	0.00	5.02	3.41	0.00	3.41	0.00	1.57	0.11	0.00	1.68	0.00	20.00	0.00	0.	0.00	
43	83.250	32.01	0.00	0.00	0.00	5.02	3.37	0.00	3.37	0.00	1.57	0.11	0.00	1.68	0.00	20.00	0.00	0.	0.00	
44	83.000	32.01	0.00	0.00	0.00	5.01	3.33	0.00	3.33	0.00	1.56	0.11	0.00	1.68	0.00	20.00	0.00	0.	0.00	
45	82.750	32.01	0.00	0.00	0.00	5.01	3.29	0.00	3.29	0.00	1.56	0.11	0.00	1.67	0.00	20.00	0.00	0.	0.00	
46	82.500	32.02	0.00	0.00	0.00	5.01	3.25	0.00	3.25	0.00	1.56	0.12	0.00	1.67	0.00	20.00	0.00	0.	0.00	
47	82.250	32.02	0.00	0.00	0.00	5.01	3.21	0.00	3.21	0.00	1.55	0.12	0.00	1.67	0.00	20.00	0.00	0.	0.00	
48	82.000	32.02	0.00	0.00	0.00	5.02	3.18	0.00	3.18	0.00	1.55	0.12	0.00	1.67	0.00	20.00	0.00	0.	0.00	
49	81.750	32.02	0.00	0.00	0.00	5.02	3.14	0.00	3.14	0.00	1.55	0.12	0.00	1.67	0.00	20.00	0.00	0.	0.00	
50	81.500	32.02	0.00	0.00	0.00	5.02	3.11	0.00	3.11	0.00	1.54	0.12	0.00	1.66	0.00	20.00	0.00	0.	0.00	
51	81.250	32.03	0.00	0.00	0.00	5.03	3.08	0.00	3.08	0.00	1.54	0.12	0.00	1.66	0.00	20.00	0.00	0.	0.00	
52	81.000	32.03	0.00	0.00	0.00	5.04	3.05	0.00	3.05	0.00	1.54	0.12	0.00	1.66	0.00	20.00	0.00	0.	0.00	
53	80.750	32.03	0.00	0.00	0.00	5.04	3.02	0.00	3.02	0.00	1.53	0.12	0.00	1.65	0.00	20.00	0.00	0.	0.00	
54	80.500	32.03	0.00	0.00	0.00	5.05	2.99	0.00	2.99	0.00	1.53	0.12	0.00	1.65	0.00	20.00	0.00	0.	0.00	
55	80.250	32.03	0.00	0.00	0.00	5.07	2.96	0.00	2.96	0.00	1.52	0.12	0.00	1.65	0.00	20.00	0.00	0.	0.00	
56	80.000	32.03	0.00	0.00	0.00	5.13	2.93	0.00	2.93	0.00	1.51	0.12	0.00	1.63	0.00	20.00	0.00	0.	0.00	
57	79.750	32.04	0.00	0.00	0.00	5.66	2.81	0.00	2.81	0.00	1.39	0.12	0.00	1.51	0.00	20.00	0.00	0.	0.00	
58	79.500	32.04	0.00	0.00	0.00	7.45	2.47	0.00	2.47	0.00	1.02	0.09	0.00	1.11	0.00	20.00	0.00	0.	0.00	
59	79.250	32.04	0.00	0.00	0.00	8.02	2.37	0.00	2.37	0.00	0.89	0.08	0.00	0.97	0.00	20.00	0.00	0.	0.00	
60	79.000	32.04	0.00	0.00	0.00	8.18	2.34	0.00	2.34	0.00	0.86	0.08	0.00	0.93	0.00	20.00	0.00	0.	0.00	

61	78.750	32.04	0.00	0.00	0.00	8.21	2.34	0.00	2.34	0.00	0.84	0.08	0.00	0.92	0.00	20.00	0.00	0.	0.00
62	78.500	32.05	0.00	0.00	0.00	8.19	2.33	0.00	2.33	0.00	0.84	0.07	0.00	0.92	0.00	20.00	0.00	0.	0.00
63	78.250	32.05	0.00	0.00	0.00	8.15	2.33	0.00	2.33	0.00	0.84	0.08	0.00	0.92	0.00	20.00	0.00	0.	0.00
64	78.000	32.05	0.00	0.00	0.00	8.11	2.33	0.00	2.33	0.00	0.85	0.08	0.00	0.92	0.00	20.00	0.00	0.	0.00
65	77.750	32.05	0.00	0.00	0.00	8.06	2.33	0.00	2.33	0.00	0.85	0.08	0.00	0.92	0.00	20.00	0.00	0.	0.00
66	77.500	32.05	0.00	0.00	0.00	8.01	2.34	0.00	2.34	0.00	0.85	0.08	0.00	0.93	0.00	20.00	0.00	0.	0.00
67	77.250	32.06	0.00	0.00	0.00	7.96	2.34	0.00	2.34	0.00	0.85	0.08	0.00	0.93	0.00	20.00	0.00	0.	0.00
68	77.000	32.06	0.00	0.00	0.00	7.91	2.34	0.00	2.34	0.00	0.86	0.08	0.00	0.93	0.00	20.00	0.00	0.	0.00
69	76.750	32.06	0.00	0.00	0.00	7.85	2.34	0.00	2.34	0.00	0.86	0.08	0.00	0.94	0.00	20.00	0.00	0.	0.00
70	76.500	32.06	0.00	0.00	0.00	7.79	2.34	0.00	2.34	0.00	0.86	0.08	0.00	0.94	0.00	20.00	0.00	0.	0.00
71	76.250	32.06	0.00	0.00	0.00	7.73	2.34	0.00	2.34	0.00	0.87	0.08	0.00	0.94	0.00	20.00	0.00	0.	0.00
72	76.000	32.07	0.00	0.00	0.00	7.67	2.35	0.00	2.35	0.00	0.87	0.08	0.00	0.95	0.00	20.00	0.00	0.	0.00
73	75.750	32.07	0.00	0.00	0.00	7.61	2.35	0.00	2.35	0.00	0.87	0.08	0.00	0.95	0.00	20.00	0.00	0.	0.00
74	75.500	32.07	0.00	0.00	0.00	7.54	2.36	0.00	2.36	0.00	0.88	0.08	0.00	0.96	0.00	20.00	0.00	0.	0.00
75	75.250	32.07	0.00	0.00	0.00	7.47	2.36	0.00	2.36	0.00	0.88	0.08	0.00	0.96	0.00	20.00	0.00	0.	0.00
76	75.000	32.07	0.00	0.00	0.00	7.40	2.37	0.00	2.37	0.00	0.88	0.08	0.00	0.96	0.00	20.00	0.00	0.	0.00
77	74.750	32.08	0.00	0.00	0.00	7.32	2.37	0.00	2.37	0.00	0.89	0.08	0.00	0.97	0.00	20.00	0.00	0.	0.00
78	74.500	32.08	0.00	0.00	0.00	7.25	2.38	0.00	2.38	0.00	0.89	0.08	0.00	0.97	0.00	20.00	0.00	0.	0.00
79	74.250	32.08	0.00	0.00	0.00	7.17	2.39	0.00	2.39	0.00	0.89	0.08	0.00	0.98	0.00	20.00	0.00	0.	0.00
80	74.000	32.08	0.00	0.00	0.00	7.09	2.40	0.00	2.40	0.00	0.90	0.08	0.00	0.98	0.00	20.00	0.00	0.	0.00
81	73.750	32.08	0.00	0.00	0.00	7.00	2.42	0.00	2.42	0.00	0.90	0.08	0.00	0.98	0.00	20.00	0.00	0.	0.00
82	73.500	32.08	0.00	0.00	0.00	6.92	2.44	0.00	2.44	0.00	0.91	0.08	0.00	0.99	0.00	20.00	0.00	0.	0.00
83	73.250	32.09	0.00	0.00	0.00	6.83	2.46	0.00	2.46	0.00	0.91	0.08	0.00	0.99	0.00	20.00	0.00	0.	0.00
84	73.000	32.09	0.00	0.00	0.00	6.75	2.48	0.00	2.48	0.00	0.92	0.08	0.00	1.00	0.00	20.00	0.00	0.	0.00
85	72.750	32.09	0.00	0.00	0.00	6.66	2.51	0.00	2.51	0.00	0.92	0.08	0.00	1.00	0.00	20.00	0.00	0.	0.00
86	72.500	32.09	0.00	0.00	0.00	6.58	2.55	0.00	2.55	0.00	0.92	0.08	0.00	1.01	0.00	20.00	0.00	0.	0.00
87	72.250	32.09	0.00	0.00	0.00	6.50	2.59	0.00	2.59	0.00	0.93	0.08	0.00	1.01	0.00	20.00	0.00	0.	0.00
88	72.000	32.10	0.00	0.00	0.00	6.42	2.63	0.00	2.63	0.00	0.93	0.08	0.00	1.02	0.00	20.00	0.00	0.	0.00
89	71.750	32.10	0.00	0.00	0.00	6.34	2.69	0.00	2.69	0.00	0.94	0.08	0.00	1.02	0.00	20.00	0.00	0.	0.00
90	71.500	32.10	0.00	0.00	0.00	6.24	2.37	0.00	2.37	0.00	0.89	0.08	0.00	0.97	0.00	20.00	0.00	0.	0.00

FINAL REPORT ICWW LA-QUAL TMDL for Gulf ICWW and Bayou Black
REACH NO. 3 Gulf ICWW

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

ELEM NO.	TYPE	FLOW	TEMP	SALN	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NCM
		deg C	ppt		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL	
91	UPR RCH	-8.83793	32.10	0.00	0.00	0.00	6.24	2.37	0.00	2.37	0.00	0.89	0.08	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.01645	30.00	0.00	0.00	0.00	7.22	6.67	0.00		1.40	0.10	0.00	0.00	0.00	0.00		
117	WSTLD	5.40773	30.00	0.00	0.00	0.00	6.60	6.20	0.00	6.20	0.00	1.40	0.10	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	PCT EFF	ADVCTV VELO	TRAVEL TIME	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	TIDAL PRISM	TIDAL VELO	DISPRSN VELO	MEAN
	km	km	m³/s	m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s	
91	71.50	71.25	-8.82149	101.5	-0.00175	-1.66	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002
92	71.25	71.00	-8.80504	101.7	-0.00174	-1.66	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002
93	71.00	70.75	-8.78859	101.9	-0.00174	-1.66	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002
94	70.75	70.50	-8.77215	102.1	-0.00174	-1.67	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002
95	70.50	70.25	-8.75570	102.2	-0.00173	-1.67	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002
96	70.25	70.00	-8.73925	102.4	-0.00173	-1.67	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002
97	70.00	69.75	-8.72281	102.6	-0.00173	-1.67	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002
98	69.75	69.50	-8.70636	102.8	-0.00172	-1.68	12.77	395.30	1261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002

99	69.50	69.25	-8.68991	103.0	-0.00172	-1.68	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
100	69.25	69.00	-8.67346	103.2	-0.00172	-1.68	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
101	69.00	68.75	-8.65702	103.4	-0.00171	-1.69	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
102	68.75	68.50	-8.64057	103.6	-0.00171	-1.69	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
103	68.50	68.25	-8.62412	103.8	-0.00171	-1.69	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
104	68.25	68.00	-8.60768	104.0	-0.00171	-1.70	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
105	68.00	67.75	-8.59123	104.2	-0.00170	-1.70	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
106	67.75	67.50	-8.57478	104.4	-0.00170	-1.70	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
107	67.50	67.25	-8.55833	104.6	-0.00170	-1.71	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
108	67.25	67.00	-8.54189	104.8	-0.00169	-1.71	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
109	67.00	66.75	-8.52544	105.0	-0.00169	-1.71	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
110	66.75	66.50	-8.50899	105.2	-0.00169	-1.72	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
111	66.50	66.25	-8.49255	105.4	-0.00168	-1.72	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
112	66.25	66.00	-8.47610	105.6	-0.00168	-1.72	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
113	66.00	65.75	-8.45965	105.8	-0.00168	-1.73	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
114	65.75	65.50	-8.44320	106.0	-0.00167	-1.73	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
115	65.50	65.25	-8.42676	106.2	-0.00167	-1.73	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
116	65.25	65.00	-8.41031	106.4	-0.00167	-1.74	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.002	
117	65.00	64.75	-2.98613	118.7	-0.00059	-4.89	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.001	
118	64.75	64.50	-2.96969	119.4	-0.00059	-4.92	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.001	
119	64.50	64.25	-2.95324	120.0	-0.00059	-4.95	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.001	
120	64.25	64.00	-2.93679	120.7	-0.00058	-4.97	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.001	
121	64.00	63.75	-2.92034	121.4	-0.00058	-5.00	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.001	
122	63.75	63.50	-2.90390	122.1	-0.00058	-5.03	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.001	
123	63.50	63.25	-2.88745	122.8	-0.00057	-5.06	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.001	
124	63.25	63.00	-2.87100	123.5	-0.00057	-5.09	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.001	
125	63.00	62.75	-2.85456	124.2	-0.00057	-5.12	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.001	
126	62.75	62.50	-2.83811	124.9	-0.00056	-5.15	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.001	
127	62.50	62.25	-2.82166	125.6	-0.00056	-5.18	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.001	
128	62.25	62.00	-2.80521	126.4	-0.00056	-5.21	12.77	395.301261995.25	98825.00	5047.98	0.00	0.000	0.300	0.001	
TOT				-104.64				47955836.00	3755350.00						
AVG			-0.0011			12.77	395.30			5047.98					
CUM				43.83											

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	ABOD#1 DECAY	BOD#2 DECAY	BOD#2 SETT	ABOD#2 DECAY	BKGD SOD	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	*	**	**	1/da	1/da	1/da	
91	71.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
92	71.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
93	70.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
94	70.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
95	70.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
96	70.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.86	3.86	3.86	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
97	69.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
98	69.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
99	69.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
100	69.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
101	68.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
102	68.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
103	68.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00

104	68.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.87	3.87	3.87	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
105	67.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
106	67.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
107	67.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
108	67.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
109	66.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
110	66.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
111	66.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
112	66.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.88	3.88	3.88	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
113	65.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	3.89	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
114	65.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	3.89	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
115	65.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	3.89	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
116	65.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	3.89	0.03	0.00	0.27	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
117	64.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	3.89	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
118	64.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	3.89	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
119	64.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.89	3.89	3.89	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
120	64.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
121	63.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
122	63.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
123	63.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
124	63.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
125	62.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
126	62.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
127	62.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.90	3.90	3.90	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
128	62.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	3.91	3.91	3.91	0.03	0.00	0.28	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.05	0.15	0.00	0.00	0.00	0.00	0.00	1.80			0.02	0.00	0.13	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT		CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL				
91	71.250	32.11	0.00	0.00	0.00	6.10	2.25	0.00	2.25	0.00	0.87	0.08	0.00	0.96	0.00	20.00	0.00	0.	0.00	
92	71.000	32.11	0.00	0.00	0.00	6.05	2.22	0.00	2.22	0.00	0.87	0.08	0.00	0.95	0.00	20.00	0.00	0.	0.00	
93	70.750	32.12	0.00	0.00	0.00	6.01	2.21	0.00	2.21	0.00	0.88	0.08	0.00	0.96	0.00	20.00	0.00	0.	0.00	
94	70.500	32.12	0.00	0.00	0.00	5.98	2.20	0.00	2.20	0.00	0.88	0.08	0.00	0.96	0.00	20.00	0.00	0.	0.00	
95	70.250	32.13	0.00	0.00	0.00	5.94	2.20	0.00	2.20	0.00	0.89	0.08	0.00	0.97	0.00	20.00	0.00	0.	0.00	
96	70.000	32.13	0.00	0.00	0.00	5.91	2.20	0.00	2.20	0.00	0.89	0.08	0.00	0.98	0.00	20.00	0.00	0.	0.00	
97	69.750	32.14	0.00	0.00	0.00	5.87	2.20	0.00	2.20	0.00	0.90	0.08	0.00	0.98	0.00	20.00	0.00	0.	0.00	
98	69.500	32.14	0.00	0.00	0.00	5.83	2.20	0.00	2.20	0.00	0.91	0.08	0.00	0.99	0.00	20.00	0.00	0.	0.00	
99	69.250	32.15	0.00	0.00	0.00	5.79	2.20	0.00	2.20	0.00	0.92	0.09	0.00	1.00	0.00	20.00	0.00	0.	0.00	
100	69.000	32.15	0.00	0.00	0.00	5.74	2.20	0.00	2.20	0.00	0.92	0.09	0.00	1.01	0.00	20.00	0.00	0.	0.00	
101	68.750	32.16	0.00	0.00	0.00	5.69	2.21	0.00	2.21	0.00	0.93	0.09	0.00	1.02	0.00	20.00	0.00	0.	0.00	
102	68.500	32.16	0.00	0.00	0.00	5.64	2.21	0.00	2.21	0.00	0.94	0.09	0.00	1.03	0.00	20.00	0.00	0.	0.00	
103	68.250	32.17	0.00	0.00	0.00	5.58	2.21	0.00	2.21	0.00	0.95	0.09	0.00	1.04	0.00	20.00	0.00	0.	0.00	
104	68.000	32.17	0.00	0.00	0.00	5.52	2.22	0.00	2.22	0.00	0.96	0.09	0.00	1.05	0.00	20.00	0.00	0.	0.00	
105	67.750	32.18	0.00	0.00	0.00	5.46	2.22	0.00	2.22	0.00	0.97	0.09	0.00	1.06	0.00	20.00	0.00	0.	0.00	
106	67.500	32.18	0.00	0.00	0.00	5.39	2.23	0.00	2.23	0.00	0.98	0.09	0.00	1.08	0.00	20.00	0.00	0.	0.00	
107	67.250	32.19	0.00	0.00	0.00	5.32	2.25	0.00	2.25	0.00	0.99	0.09	0.00	1.09	0.00	20.00	0.00	0.	0.00	
108	67.000	32.19	0.00	0.00	0.00	5.26	2.27	0.00	2.27	0.00	1.01	0.10	0.00	1.10	0.00	20.00	0.00	0.	0.00	
109	66.750	32.20	0.00	0.00	0.00	5.19	2.29	0.00	2.29	0.00	1.02	0.10	0.00	1.11	0.00	20.00	0.00	0.	0.00	
110	66.500	32.21	0.00	0.00	0.00	5.13	2.33	0.00	2.33	0.00	1.03	0.10	0.00	1.13	0.00	20.00	0.00	0.	0.00	

111	66.250	32.21	0.00	0.00	0.00	5.07	2.38	0.00	2.38	0.00	1.04	0.10	0.00	1.14	0.00	20.00	0.00	0.	0.00
112	66.000	32.22	0.00	0.00	0.00	5.03	2.45	0.00	2.45	0.00	1.06	0.10	0.00	1.16	0.00	20.00	0.00	0.	0.00
113	65.750	32.22	0.00	0.00	0.00	5.02	2.55	0.00	2.55	0.00	1.07	0.10	0.00	1.17	0.00	20.00	0.00	0.	0.00
114	65.500	32.23	0.00	0.00	0.00	5.03	2.69	0.00	2.69	0.00	1.09	0.10	0.00	1.19	0.00	20.00	0.00	0.	0.00
115	65.250	32.23	0.00	0.00	0.00	5.10	2.88	0.00	2.88	0.00	1.10	0.10	0.00	1.20	0.00	20.00	0.00	0.	0.00
116	65.000	32.24	0.00	0.00	0.00	5.25	3.14	0.00	3.14	0.00	1.12	0.10	0.00	1.22	0.00	20.00	0.00	0.	0.00
117	64.750	32.24	0.00	0.00	0.00	5.51	3.51	0.00	3.51	0.00	1.14	0.10	0.00	1.24	0.00	20.00	0.00	0.	0.00
118	64.500	32.25	0.00	0.00	0.00	5.54	2.71	0.00	2.71	0.00	1.01	0.09	0.00	1.10	0.00	20.00	0.00	0.	0.00
119	64.250	32.25	0.00	0.00	0.00	5.71	2.39	0.00	2.39	0.00	0.94	0.09	0.00	1.03	0.00	20.00	0.00	0.	0.00
120	64.000	32.26	0.00	0.00	0.00	5.85	2.27	0.00	2.27	0.00	0.90	0.08	0.00	0.98	0.00	20.00	0.00	0.	0.00
121	63.750	32.26	0.00	0.00	0.00	5.93	2.22	0.00	2.22	0.00	0.88	0.08	0.00	0.96	0.00	20.00	0.00	0.	0.00
122	63.500	32.27	0.00	0.00	0.00	5.95	2.20	0.00	2.20	0.00	0.88	0.08	0.00	0.96	0.00	20.00	0.00	0.	0.00
123	63.250	32.27	0.00	0.00	0.00	5.94	2.19	0.00	2.19	0.00	0.88	0.08	0.00	0.96	0.00	20.00	0.00	0.	0.00
124	63.000	32.28	0.00	0.00	0.00	5.89	2.19	0.00	2.19	0.00	0.89	0.08	0.00	0.97	0.00	20.00	0.00	0.	0.00
125	62.750	32.28	0.00	0.00	0.00	5.81	2.19	0.00	2.19	0.00	0.90	0.08	0.00	0.98	0.00	20.00	0.00	0.	0.00
126	62.500	32.29	0.00	0.00	0.00	5.70	2.20	0.00	2.20	0.00	0.91	0.09	0.00	1.00	0.00	20.00	0.00	0.	0.00
127	62.250	32.29	0.00	0.00	0.00	5.58	2.21	0.00	2.21	0.00	0.93	0.09	0.00	1.02	0.00	20.00	0.00	0.	0.00
128	62.000	32.30	0.00	0.00	0.00	5.43	2.23	0.00	2.23	0.00	0.96	0.09	0.00	1.05	0.00	20.00	0.00	0.	0.00

FINAL REPORT ICWW LA-QUAL TMDL for Gulf ICWW and Bayou Black

REACH NO. 4 Gulf ICWW

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 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 µg/L	CHL A	COLI #/100mL	NCM
129	UPR RCH	-2.80521	32.30	0.00	0.00	0.00	5.43	2.23	0.00	2.23	0.00	0.96	0.09	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.01644	30.00	0.00	0.00	0.00	7.22	6.67	0.00		1.40	0.10	0.00	0.00	0.00	0.00		
181	WSTLD	2.48208	30.00	0.00	0.00	0.00	10.40	7.20	0.00	7.20	0.00	1.40	0.10	0.00	0.00	0.00	0.00	0.00
181	WSTLD	-0.25953	32.08	0.00	0.00	0.00	7.08	4.12	0.00	4.12	0.00	1.30	0.11	0.00	0.00	22.21	0.00	0.00
221	WSTLD	-14.93970	31.91	0.00	0.00	0.00	6.57	2.90	0.00	2.90	0.00	0.97	0.09	0.00	0.00	23.88	0.00	0.00
223	WSTLD	0.00003	30.00	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	7.50	15.00	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s		
129	62.00	61.75	-2.78878	127.1	-0.00120	-2.40	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
130	61.75	61.50	-2.77234	127.9	-0.00120	-2.42	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
131	61.50	61.25	-2.75590	128.6	-0.00119	-2.43	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
132	61.25	61.00	-2.73946	129.4	-0.00118	-2.45	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
133	61.00	60.75	-2.72303	130.2	-0.00118	-2.46	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
134	60.75	60.50	-2.70659	131.0	-0.00117	-2.48	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
135	60.50	60.25	-2.69015	131.8	-0.00116	-2.49	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
136	60.25	60.00	-2.67371	132.6	-0.00115	-2.51	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
137	60.00	59.75	-2.65728	133.4	-0.00115	-2.52	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
138	59.75	59.50	-2.64084	134.2	-0.00114	-2.54	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
139	59.50	59.25	-2.62440	135.1	-0.00113	-2.55	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
140	59.25	59.00	-2.60796	135.9	-0.00113	-2.57	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
141	59.00	58.75	-2.59153	136.8	-0.00112	-2.59	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
142	58.75	58.50	-2.57509	137.6	-0.00111	-2.60	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
143	58.50	58.25	-2.55865	138.5	-0.00110	-2.62	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
144	58.25	58.00	-2.54221	139.4	-0.00110	-2.64	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		
145	58.00	57.75	-2.52578	140.3	-0.00109	-2.65	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001		

146	57.75	57.50	-2.50934	141.3	-0.00108	-2.67	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
147	57.50	57.25	-2.49290	142.2	-0.00108	-2.69	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
148	57.25	57.00	-2.47646	143.1	-0.00107	-2.71	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
149	57.00	56.75	-2.46003	144.1	-0.00106	-2.72	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
150	56.75	56.50	-2.44359	145.1	-0.00106	-2.74	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
151	56.50	56.25	-2.42715	146.0	-0.00105	-2.76	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
152	56.25	56.00	-2.41071	147.0	-0.00104	-2.78	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
153	56.00	55.75	-2.39427	148.0	-0.00103	-2.80	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
154	55.75	55.50	-2.37784	149.1	-0.00103	-2.82	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
155	55.50	55.25	-2.36140	150.1	-0.00102	-2.84	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
156	55.25	55.00	-2.34496	151.2	-0.00101	-2.86	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
157	55.00	54.75	-2.32852	152.2	-0.00101	-2.88	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
158	54.75	54.50	-2.31209	153.3	-0.00100	-2.90	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
159	54.50	54.25	-2.29565	154.4	-0.00099	-2.92	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
160	54.25	54.00	-2.27921	155.5	-0.00098	-2.94	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
161	54.00	53.75	-2.26277	156.6	-0.00098	-2.96	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
162	53.75	53.50	-2.24634	157.8	-0.00097	-2.98	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
163	53.50	53.25	-2.22990	159.0	-0.00096	-3.01	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
164	53.25	53.00	-2.21346	160.1	-0.00096	-3.03	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
165	53.00	52.75	-2.19702	161.3	-0.00095	-3.05	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
166	52.75	52.50	-2.18059	162.5	-0.00094	-3.07	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
167	52.50	52.25	-2.16415	163.8	-0.00093	-3.10	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
168	52.25	52.00	-2.14771	165.0	-0.00093	-3.12	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
169	52.00	51.75	-2.13127	166.3	-0.00092	-3.14	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
170	51.75	51.50	-2.11484	167.6	-0.00091	-3.17	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
171	51.50	51.25	-2.09840	168.9	-0.00091	-3.19	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
172	51.25	51.00	-2.08196	170.2	-0.00090	-3.22	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
173	51.00	50.75	-2.06552	171.6	-0.00089	-3.24	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
174	50.75	50.50	-2.04909	173.0	-0.00088	-3.27	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
175	50.50	50.25	-2.03265	174.4	-0.00088	-3.30	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
176	50.25	50.00	-2.01621	175.8	-0.00087	-3.32	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
177	50.00	49.75	-1.99977	177.2	-0.00086	-3.35	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
178	49.75	49.50	-1.98334	178.7	-0.00086	-3.38	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
179	49.50	49.25	-1.96690	180.2	-0.00085	-3.41	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
180	49.25	49.00	-1.95046	181.7	-0.00084	-3.44	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.001
181	49.00	48.75	0.28853	-193.9	0.00012	23.23	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
182	48.75	48.50	0.30496	-183.4	0.00013	21.98	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
183	48.50	48.25	0.32140	-174.0	0.00014	20.85	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
184	48.25	48.00	0.33784	-165.6	0.00015	19.84	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
185	48.00	47.75	0.35428	-157.9	0.00015	18.92	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
186	47.75	47.50	0.37071	-150.9	0.00016	18.08	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
187	47.50	47.25	0.38715	-144.5	0.00017	17.31	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
188	47.25	47.00	0.40359	-138.6	0.00017	16.61	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
189	47.00	46.75	0.42003	-133.2	0.00018	15.96	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
190	46.75	46.50	0.43646	-128.2	0.00019	15.35	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
191	46.50	46.25	0.45290	-123.5	0.00020	14.80	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
192	46.25	46.00	0.46934	-119.2	0.00020	14.28	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
193	46.00	45.75	0.48578	-115.1	0.00021	13.80	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
194	45.75	45.50	0.50221	-111.4	0.00022	13.34	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000
195	45.50	45.25	0.51865	-107.8	0.00022	12.92	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000

196	45.25	45.00	0.53509	-104.5	0.00023	12.52	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
197	45.00	44.75	0.55153	-101.4	0.00024	12.15	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
198	44.75	44.50	0.56796	-98.5	0.00025	11.80	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
199	44.50	44.25	0.58440	-95.7	0.00025	11.47	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
200	44.25	44.00	0.60084	-93.1	0.00026	11.15	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
201	44.00	43.75	0.61728	-90.6	0.00027	10.86	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
202	43.75	43.50	0.63371	-88.3	0.00027	10.58	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
203	43.50	43.25	0.65015	-86.0	0.00028	10.31	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
204	43.25	43.00	0.66659	-83.9	0.00029	10.05	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
205	43.00	42.75	0.68303	-81.9	0.00029	9.81	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
206	42.75	42.50	0.69946	-80.0	0.00030	9.58	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
207	42.50	42.25	0.71590	-78.1	0.00031	9.36	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
208	42.25	42.00	0.73234	-76.4	0.00032	9.15	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
209	42.00	41.75	0.74878	-74.7	0.00032	8.95	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
210	41.75	41.50	0.76521	-73.1	0.00033	8.76	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
211	41.50	41.25	0.78165	-71.6	0.00034	8.57	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
212	41.25	41.00	0.79809	-70.1	0.00034	8.40	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
213	41.00	40.75	0.81453	-68.7	0.00035	8.23	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
214	40.75	40.50	0.83096	-67.3	0.00036	8.06	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
215	40.50	40.25	0.84740	-66.0	0.00037	7.91	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
216	40.25	40.00	0.86384	-64.7	0.00037	7.76	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
217	40.00	39.75	0.88028	-63.5	0.00038	7.61	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
218	39.75	39.50	0.89671	-62.4	0.00039	7.47	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
219	39.50	39.25	0.91315	-61.3	0.00039	7.34	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
220	39.25	39.00	0.92959	-60.2	0.00040	7.21	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.000								
221	39.00	38.75	-13.99368	-59.1	-0.00604	-0.48	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.006								
222	38.75	38.50	-13.97724	-59.2	-0.00603	-0.48	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.006								
223	38.50	38.25	-13.96077	-59.3	-0.00603	-0.48	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.006								
224	38.25	38.00	-13.94433	-59.3	-0.00602	-0.48	12.19	190.00	579024.94	47500.00	2316.10	0.00	0.000	0.300	0.006								
TOT				341.71					55586332.00	4560000.00													
AVG				0.0008			12.19	190.00			2316.10												
CUM				385.54																			

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
		mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da	
129	61.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.28	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
130	61.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
131	61.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
132	61.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
133	60.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00
134	60.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
135	60.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
136	60.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.66	4.66	4.66	0.03	0.00	0.27	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
137	59.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
138	59.500	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
139	59.250	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00
140	59.000	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
141	58.750	7.27	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
142	58.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00

143	58.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
144	58.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.65	4.65	4.65	0.03	0.00	0.27	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
145	57.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	4.64	0.03	0.00	0.27	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00
146	57.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	4.64	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
147	57.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	4.64	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
148	57.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	4.64	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
149	56.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	4.64	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
150	56.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	4.64	0.03	0.00	0.28	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
151	56.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	4.64	0.03	0.00	0.28	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
152	56.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.64	4.64	4.64	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
153	55.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
154	55.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
155	55.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
156	55.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
157	54.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
158	54.500	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
159	54.250	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
160	54.000	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.63	4.63	4.63	0.03	0.00	0.28	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
161	53.750	7.28	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
162	53.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
163	53.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
164	53.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
165	52.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
166	52.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
167	52.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
168	52.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.62	4.62	4.62	0.03	0.00	0.28	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
169	51.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	4.61	0.03	0.00	0.28	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
170	51.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	4.61	0.03	0.00	0.28	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
171	51.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
172	51.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
173	50.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
174	50.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
175	50.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
176	50.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
177	49.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.61	4.61	4.61	0.03	0.00	0.27	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
178	49.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
179	49.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
180	49.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
181	48.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	4.60	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
182	48.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
183	48.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
184	48.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
185	47.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.60	4.60	4.60	0.03	0.00	0.28	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
186	47.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
187	47.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
188	47.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
189	46.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
190	46.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
191	46.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
192	46.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00

193	45.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.59	4.59	4.59	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
194	45.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
195	45.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
196	45.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
197	44.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
198	44.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
199	44.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
200	44.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
201	43.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
202	43.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.58	4.58	4.58	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
203	43.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
204	43.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
205	42.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
206	42.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
207	42.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
208	42.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
209	41.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
210	41.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.57	4.57	4.57	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
211	41.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
212	41.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
213	40.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
214	40.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
215	40.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
216	40.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00
217	39.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
218	39.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.56	4.56	4.56	0.03	0.00	0.28	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
219	39.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.55	4.55	4.55	0.03	0.00	0.28	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
220	39.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.55	4.55	4.55	0.03	0.00	0.28	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
221	38.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.55	4.55	4.55	0.03	0.00	0.28	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
222	38.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.55	4.55	4.55	0.03	0.00	0.28	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00
223	38.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.55	4.55	4.55	0.03	0.00	0.28	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
224	38.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	4.55	4.55	4.55	0.03	0.00	0.28	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.06	0.15	0.00	0.00	0.00	0.00	0.00	2.15			0.02	0.00	0.13	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL				
129	61.750	32.30	0.00 0.00	0.00	5.22	2.26	0.00	2.26	0.00	0.99	0.09	0.00	1.08	0.00	20.04	0.00	0.	0.00	
130	61.500	32.29	0.00 0.00	0.00	5.07	2.28	0.00	2.28	0.00	1.01	0.09	0.00	1.11	0.00	20.08	0.00	0.	0.00	
131	61.250	32.29	0.00 0.00	0.00	5.02	2.29	0.00	2.29	0.00	1.02	0.10	0.00	1.12	0.00	20.12	0.00	0.	0.00	
132	61.000	32.28	0.00 0.00	0.00	5.01	2.29	0.00	2.29	0.00	1.03	0.10	0.00	1.12	0.00	20.17	0.00	0.	0.00	
133	60.750	32.28	0.00 0.00	0.00	5.02	2.29	0.00	2.29	0.00	1.03	0.10	0.00	1.13	0.00	20.21	0.00	0.	0.00	
134	60.500	32.27	0.00 0.00	0.00	5.03	2.29	0.00	2.29	0.00	1.03	0.10	0.00	1.13	0.00	20.25	0.00	0.	0.00	
135	60.250	32.27	0.00 0.00	0.00	5.05	2.29	0.00	2.29	0.00	1.03	0.10	0.00	1.13	0.00	20.29	0.00	0.	0.00	
136	60.000	32.27	0.00 0.00	0.00	5.07	2.29	0.00	2.29	0.00	1.04	0.10	0.00	1.13	0.00	20.33	0.00	0.	0.00	
137	59.750	32.26	0.00 0.00	0.00	5.09	2.29	0.00	2.29	0.00	1.04	0.10	0.00	1.13	0.00	20.38	0.00	0.	0.00	
138	59.500	32.26	0.00 0.00	0.00	5.11	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.13	0.00	20.42	0.00	0.	0.00	
139	59.250	32.25	0.00 0.00	0.00	5.14	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.13	0.00	20.46	0.00	0.	0.00	
140	59.000	32.25	0.00 0.00	0.00	5.16	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.14	0.00	20.50	0.00	0.	0.00	
141	58.750	32.25	0.00 0.00	0.00	5.18	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.14	0.00	20.54	0.00	0.	0.00	

142	58.500	32.24	0.00	0.00	0.00	5.20	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.14	0.00	20.58	0.00	0.	0.00
143	58.250	32.24	0.00	0.00	0.00	5.22	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.14	0.00	20.62	0.00	0.	0.00
144	58.000	32.23	0.00	0.00	0.00	5.24	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.14	0.00	20.67	0.00	0.	0.00
145	57.750	32.23	0.00	0.00	0.00	5.26	2.30	0.00	2.30	0.00	1.04	0.10	0.00	1.14	0.00	20.71	0.00	0.	0.00
146	57.500	32.22	0.00	0.00	0.00	5.28	2.30	0.00	2.30	0.00	1.05	0.10	0.00	1.14	0.00	20.75	0.00	0.	0.00
147	57.250	32.22	0.00	0.00	0.00	5.30	2.30	0.00	2.30	0.00	1.05	0.10	0.00	1.14	0.00	20.79	0.00	0.	0.00
148	57.000	32.22	0.00	0.00	0.00	5.32	2.30	0.00	2.30	0.00	1.05	0.10	0.00	1.15	0.00	20.83	0.00	0.	0.00
149	56.750	32.21	0.00	0.00	0.00	5.34	2.30	0.00	2.30	0.00	1.05	0.10	0.00	1.15	0.00	20.88	0.00	0.	0.00
150	56.500	32.21	0.00	0.00	0.00	5.36	2.30	0.00	2.30	0.00	1.05	0.10	0.00	1.15	0.00	20.92	0.00	0.	0.00
151	56.250	32.20	0.00	0.00	0.00	5.38	2.30	0.00	2.30	0.00	1.05	0.10	0.00	1.15	0.00	20.96	0.00	0.	0.00
152	56.000	32.20	0.00	0.00	0.00	5.40	2.30	0.00	2.30	0.00	1.06	0.10	0.00	1.15	0.00	21.00	0.00	0.	0.00
153	55.750	32.20	0.00	0.00	0.00	5.41	2.30	0.00	2.30	0.00	1.06	0.10	0.00	1.16	0.00	21.04	0.00	0.	0.00
154	55.500	32.19	0.00	0.00	0.00	5.43	2.30	0.00	2.30	0.00	1.06	0.10	0.00	1.16	0.00	21.08	0.00	0.	0.00
155	55.250	32.19	0.00	0.00	0.00	5.45	2.30	0.00	2.30	0.00	1.06	0.10	0.00	1.16	0.00	21.12	0.00	0.	0.00
156	55.000	32.18	0.00	0.00	0.00	5.46	2.30	0.00	2.30	0.00	1.07	0.10	0.00	1.17	0.00	21.17	0.00	0.	0.00
157	54.750	32.18	0.00	0.00	0.00	5.48	2.30	0.00	2.30	0.00	1.07	0.10	0.00	1.17	0.00	21.21	0.00	0.	0.00
158	54.500	32.17	0.00	0.00	0.00	5.49	2.30	0.00	2.30	0.00	1.07	0.10	0.00	1.17	0.00	21.25	0.00	0.	0.00
159	54.250	32.17	0.00	0.00	0.00	5.50	2.30	0.00	2.30	0.00	1.08	0.10	0.00	1.18	0.00	21.29	0.00	0.	0.00
160	54.000	32.17	0.00	0.00	0.00	5.51	2.30	0.00	2.30	0.00	1.08	0.10	0.00	1.18	0.00	21.33	0.00	0.	0.00
161	53.750	32.16	0.00	0.00	0.00	5.52	2.31	0.00	2.31	0.00	1.08	0.10	0.00	1.19	0.00	21.38	0.00	0.	0.00
162	53.500	32.16	0.00	0.00	0.00	5.53	2.31	0.00	2.31	0.00	1.09	0.10	0.00	1.19	0.00	21.42	0.00	0.	0.00
163	53.250	32.15	0.00	0.00	0.00	5.54	2.31	0.00	2.31	0.00	1.09	0.10	0.00	1.20	0.00	21.46	0.00	0.	0.00
164	53.000	32.15	0.00	0.00	0.00	5.54	2.31	0.00	2.31	0.00	1.10	0.10	0.00	1.20	0.00	21.50	0.00	0.	0.00
165	52.750	32.15	0.00	0.00	0.00	5.55	2.31	0.00	2.31	0.00	1.10	0.10	0.00	1.21	0.00	21.54	0.00	0.	0.00
166	52.500	32.14	0.00	0.00	0.00	5.55	2.31	0.00	2.31	0.00	1.11	0.10	0.00	1.21	0.00	21.58	0.00	0.	0.00
167	52.250	32.14	0.00	0.00	0.00	5.55	2.31	0.00	2.31	0.00	1.12	0.10	0.00	1.22	0.00	21.62	0.00	0.	0.00
168	52.000	32.13	0.00	0.00	0.00	5.54	2.31	0.00	2.31	0.00	1.12	0.10	0.00	1.23	0.00	21.67	0.00	0.	0.00
169	51.750	32.13	0.00	0.00	0.00	5.53	2.32	0.00	2.32	0.00	1.13	0.11	0.00	1.24	0.00	21.71	0.00	0.	0.00
170	51.500	32.12	0.00	0.00	0.00	5.52	2.32	0.00	2.32	0.00	1.14	0.11	0.00	1.25	0.00	21.75	0.00	0.	0.00
171	51.250	32.12	0.00	0.00	0.00	5.51	2.33	0.00	2.33	0.00	1.15	0.11	0.00	1.26	0.00	21.79	0.00	0.	0.00
172	51.000	32.12	0.00	0.00	0.00	5.50	2.34	0.00	2.34	0.00	1.16	0.11	0.00	1.27	0.00	21.83	0.00	0.	0.00
173	50.750	32.11	0.00	0.00	0.00	5.49	2.36	0.00	2.36	0.00	1.17	0.11	0.00	1.28	0.00	21.88	0.00	0.	0.00
174	50.500	32.11	0.00	0.00	0.00	5.48	2.38	0.00	2.38	0.00	1.18	0.11	0.00	1.29	0.00	21.92	0.00	0.	0.00
175	50.250	32.10	0.00	0.00	0.00	5.48	2.43	0.00	2.43	0.00	1.19	0.11	0.00	1.31	0.00	21.96	0.00	0.	0.00
176	50.000	32.10	0.00	0.00	0.00	5.51	2.49	0.00	2.49	0.00	1.21	0.11	0.00	1.32	0.00	22.00	0.00	0.	0.00
177	49.750	32.10	0.00	0.00	0.00	5.56	2.60	0.00	2.60	0.00	1.22	0.11	0.00	1.34	0.00	22.04	0.00	0.	0.00
178	49.500	32.09	0.00	0.00	0.00	5.69	2.76	0.00	2.76	0.00	1.24	0.11	0.00	1.35	0.00	22.08	0.00	0.	0.00
179	49.250	32.09	0.00	0.00	0.00	5.93	3.03	0.00	3.03	0.00	1.26	0.11	0.00	1.37	0.00	22.12	0.00	0.	0.00
180	49.000	32.08	0.00	0.00	0.00	6.35	3.45	0.00	3.45	0.00	1.28	0.11	0.00	1.39	0.00	22.17	0.00	0.	0.00
181	48.750	32.08	0.00	0.00	0.00	7.08	4.12	0.00	4.12	0.00	1.30	0.11	0.00	1.41	0.00	22.21	0.00	0.	0.00
182	48.500	32.08	0.00	0.00	0.00	6.22	3.20	0.00	3.20	0.00	1.25	0.11	0.00	1.36	0.00	22.25	0.00	0.	0.00
183	48.250	32.07	0.00	0.00	0.00	5.89	2.75	0.00	2.75	0.00	1.21	0.11	0.00	1.32	0.00	22.29	0.00	0.	0.00
184	48.000	32.07	0.00	0.00	0.00	5.81	2.53	0.00	2.53	0.00	1.18	0.11	0.00	1.28	0.00	22.33	0.00	0.	0.00
185	47.750	32.06	0.00	0.00	0.00	5.83	2.42	0.00	2.42	0.00	1.15	0.11	0.00	1.26	0.00	22.38	0.00	0.	0.00
186	47.500	32.06	0.00	0.00	0.00	5.88	2.37	0.00	2.37	0.00	1.13	0.10	0.00	1.23	0.00	22.42	0.00	0.	0.00
187	47.250	32.05	0.00	0.00	0.00	5.95	2.34	0.00	2.34	0.00	1.11	0.10	0.00	1.21	0.00	22.46	0.00	0.	0.00
188	47.000	32.05	0.00	0.00	0.00	6.02	2.33	0.00	2.33	0.00	1.10	0.10	0.00	1.20	0.00	22.50	0.00	0.	0.00
189	46.750	32.05	0.00	0.00	0.00	6.08	2.32	0.00	2.32	0.00	1.08	0.10	0.00	1.18	0.00	22.54	0.00	0.	0.00
190	46.500	32.04	0.00	0.00	0.00	6.14	2.32	0.00	2.32	0.00	1.08	0.10	0.00	1.17	0.00	22.58	0.00	0.	0.00
191	46.250	32.04	0.00	0.00	0.00	6.19	2.32	0.00	2.32	0.00	1.07	0.10	0.00	1.16	0.00	22.62	0.00	0.	0.00

192	46.000	32.03	0.00	0.00	0.00	6.24	2.32	0.00	2.32	0.00	1.06	0.10	0.00	1.16	0.00	22.67	0.00	0.	0.00
193	45.750	32.03	0.00	0.00	0.00	6.28	2.32	0.00	2.32	0.00	1.06	0.10	0.00	1.15	0.00	22.71	0.00	0.	0.00
194	45.500	32.02	0.00	0.00	0.00	6.32	2.32	0.00	2.32	0.00	1.05	0.10	0.00	1.15	0.00	22.75	0.00	0.	0.00
195	45.250	32.02	0.00	0.00	0.00	6.35	2.32	0.00	2.32	0.00	1.05	0.10	0.00	1.14	0.00	22.79	0.00	0.	0.00
196	45.000	32.02	0.00	0.00	0.00	6.39	2.32	0.00	2.32	0.00	1.04	0.09	0.00	1.14	0.00	22.83	0.00	0.	0.00
197	44.750	32.01	0.00	0.00	0.00	6.42	2.32	0.00	2.32	0.00	1.04	0.09	0.00	1.14	0.00	22.88	0.00	0.	0.00
198	44.500	32.01	0.00	0.00	0.00	6.45	2.32	0.00	2.32	0.00	1.04	0.09	0.00	1.13	0.00	22.92	0.00	0.	0.00
199	44.250	32.00	0.00	0.00	0.00	6.48	2.32	0.00	2.32	0.00	1.04	0.09	0.00	1.13	0.00	22.96	0.00	0.	0.00
200	44.000	32.00	0.00	0.00	0.00	6.50	2.32	0.00	2.32	0.00	1.04	0.09	0.00	1.13	0.00	23.00	0.00	0.	0.00
201	43.750	32.00	0.00	0.00	0.00	6.53	2.32	0.00	2.32	0.00	1.04	0.09	0.00	1.13	0.00	23.04	0.00	0.	0.00
202	43.500	31.99	0.00	0.00	0.00	6.56	2.32	0.00	2.32	0.00	1.03	0.09	0.00	1.13	0.00	23.08	0.00	0.	0.00
203	43.250	31.99	0.00	0.00	0.00	6.58	2.32	0.00	2.32	0.00	1.03	0.09	0.00	1.13	0.00	23.12	0.00	0.	0.00
204	43.000	31.98	0.00	0.00	0.00	6.61	2.32	0.00	2.32	0.00	1.03	0.09	0.00	1.13	0.00	23.17	0.00	0.	0.00
205	42.750	31.98	0.00	0.00	0.00	6.64	2.32	0.00	2.32	0.00	1.03	0.09	0.00	1.13	0.00	23.21	0.00	0.	0.00
206	42.500	31.98	0.00	0.00	0.00	6.66	2.32	0.00	2.32	0.00	1.03	0.09	0.00	1.13	0.00	23.25	0.00	0.	0.00
207	42.250	31.97	0.00	0.00	0.00	6.69	2.32	0.00	2.32	0.00	1.03	0.09	0.00	1.12	0.00	23.29	0.00	0.	0.00
208	42.000	31.97	0.00	0.00	0.00	6.71	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.33	0.00	0.	0.00
209	41.750	31.96	0.00	0.00	0.00	6.73	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.38	0.00	0.	0.00
210	41.500	31.96	0.00	0.00	0.00	6.76	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.42	0.00	0.	0.00
211	41.250	31.95	0.00	0.00	0.00	6.78	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.46	0.00	0.	0.00
212	41.000	31.95	0.00	0.00	0.00	6.80	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.50	0.00	0.	0.00
213	40.750	31.95	0.00	0.00	0.00	6.82	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.54	0.00	0.	0.00
214	40.500	31.94	0.00	0.00	0.00	6.84	2.33	0.00	2.33	0.00	1.03	0.09	0.00	1.12	0.00	23.58	0.00	0.	0.00
215	40.250	31.94	0.00	0.00	0.00	6.85	2.33	0.00	2.33	0.00	1.02	0.09	0.00	1.12	0.00	23.62	0.00	0.	0.00
216	40.000	31.93	0.00	0.00	0.00	6.85	2.34	0.00	2.34	0.00	1.02	0.09	0.00	1.11	0.00	23.67	0.00	0.	0.00
217	39.750	31.93	0.00	0.00	0.00	6.83	2.35	0.00	2.35	0.00	1.02	0.09	0.00	1.11	0.00	23.71	0.00	0.	0.00
218	39.500	31.92	0.00	0.00	0.00	6.79	2.37	0.00	2.37	0.00	1.01	0.09	0.00	1.10	0.00	23.75	0.00	0.	0.00
219	39.250	31.92	0.00	0.00	0.00	6.72	2.43	0.00	2.43	0.00	1.00	0.09	0.00	1.09	0.00	23.79	0.00	0.	0.00
220	39.000	31.92	0.00	0.00	0.00	6.62	2.57	0.00	2.57	0.00	0.99	0.09	0.00	1.08	0.00	23.83	0.00	0.	0.00
221	38.750	31.91	0.00	0.00	0.00	6.57	2.90	0.00	2.90	0.00	0.97	0.09	0.00	1.06	0.00	23.88	0.00	0.	0.00
222	38.500	31.91	0.00	0.00	0.00	6.59	3.04	0.00	3.04	0.00	0.96	0.09	0.00	1.05	0.00	23.92	0.00	0.	0.00
223	38.250	31.90	0.00	0.00	0.00	6.66	3.13	0.00	3.13	0.00	0.96	0.09	0.00	1.05	0.00	23.96	0.00	0.	0.00
224	38.000	31.90	0.00	0.00	0.00	6.73	3.23	0.00	3.23	0.00	0.96	0.09	0.00	1.05	0.00	24.00	0.00	0.	0.00

FINAL REPORT ICWW LA-QUAL TMDL for Gulf ICWW and Bayou Black

REACH NO. 8 Gulf ICWW

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2	PHOS	CHL A #/100mL	COLI	NCM
405	UPR RCH	-13.94433	31.90	0.00	0.00	0.00	6.73	3.23	0.00	3.23	0.00	0.96	0.09	0.00	0.00	24.00	0.00	0.00
405	TRIB	5.72181	31.90	0.00	0.00	0.00	5.52	3.46	0.00	3.46	0.00	1.10	0.11	0.00	0.00	24.00	0.00	0.00
EACH	INCR	0.02142	30.00	0.00	0.00	0.00	7.22	4.67	0.00			1.40	0.10	0.00	0.00	0.00	0.00	
413	WSTLD	0.47188	30.00	0.00	0.00	0.00	5.00	9.40	0.00	9.40	0.00	1.63	0.14	0.00	0.00	0.00	0.00	0.00
413	WSTLD	-0.59268	31.91	0.00	0.00	0.00	7.62	3.47	0.00	3.47	0.00	0.88	0.08	0.00	0.00	23.82	0.00	0.00
417	WSTLD	0.00002	30.00	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	7.50	15.00	2.00	0.00	0.00	0.00	0.00
461	WSTLD	0.00006	30.00	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	7.50	15.00	2.00	0.00	0.00	0.00	0.00
467	WSTLD	0.00430	30.00	0.00	0.00	0.00	5.00	70.80	0.00	70.80	0.00	5.13	10.27	2.00	0.00	0.00	0.00	0.00
469	WSTLD	3.60515	30.00	0.00	0.00	0.00	5.00	9.80	0.00	9.80	0.00	1.34	0.10	0.00	0.00	0.00	0.00	0.00
469	WSTLD	-1.72707	31.99	0.00	0.00	0.00	5.96	5.09	0.00	5.09	0.00	0.98	0.08	0.00	0.00	22.72	0.00	0.00
493	WSTLD	0.15100	30.00	0.00	0.00	0.00	5.00	8.70	0.00	8.70	0.00	0.90	0.10	0.00	0.00	0.00	0.00	0.00
525	WSTLD	0.52662	30.00	0.00	0.00	0.00	5.00	8.70	0.00	8.70	0.00	0.90	0.10	0.00	0.00	0.00	0.00	0.00

541	WSTLD	-1.41564	32.08	0.00	0.00	0.00	6.62	3.22	0.00	3.22	0.00	0.35	0.03	0.00	0.00	21.30	0.00	0.00				
549	WSTLD	0.00005	30.00	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	7.50	15.00	2.00	0.00	0.00	0.00	0.00				

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

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	PCT EFF	ADVCTV VELO	TRAVEL TIME	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	TIDAL PRISM	TIDAL VELO	DISPRSN	MEAN VELO	
	km	km	m^3/s		m/s	days	m	m	m^3	m^2	m^2	m^3	m/s	m^2/s	m/s	
405	38.00	37.75	-8.20110	-110.2	-0.00411	-0.70	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
406	37.75	37.50	-8.17968	-110.5	-0.00410	-0.71	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
407	37.50	37.25	-8.15826	-110.8	-0.00409	-0.71	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
408	37.25	37.00	-8.13684	-111.1	-0.00408	-0.71	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
409	37.00	36.75	-8.11541	-111.4	-0.00407	-0.71	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
410	36.75	36.50	-8.09399	-111.7	-0.00406	-0.71	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
411	36.50	36.25	-8.07257	-112.0	-0.00405	-0.71	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
412	36.25	36.00	-8.05115	-112.3	-0.00404	-0.72	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
413	36.00	35.75	-8.15053	-125.9	-0.00409	-0.71	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
414	35.75	35.50	-8.12911	-126.2	-0.00408	-0.71	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
415	35.50	35.25	-8.10769	-126.5	-0.00407	-0.71	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
416	35.25	35.00	-8.08626	-126.9	-0.00405	-0.71	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
417	35.00	34.75	-8.06482	-127.2	-0.00404	-0.72	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
418	34.75	34.50	-8.04340	-127.5	-0.00403	-0.72	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
419	34.50	34.25	-8.02198	-127.9	-0.00402	-0.72	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
420	34.25	34.00	-8.00056	-128.2	-0.00401	-0.72	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
421	34.00	33.75	-7.97914	-128.6	-0.00400	-0.72	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
422	33.75	33.50	-7.95772	-128.9	-0.00399	-0.73	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
423	33.50	33.25	-7.93630	-129.3	-0.00398	-0.73	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
424	33.25	33.00	-7.91488	-129.6	-0.00397	-0.73	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
425	33.00	32.75	-7.89345	-130.0	-0.00396	-0.73	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
426	32.75	32.50	-7.87203	-130.3	-0.00395	-0.73	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
427	32.50	32.25	-7.85061	-130.7	-0.00394	-0.74	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
428	32.25	32.00	-7.82919	-131.0	-0.00393	-0.74	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
429	32.00	31.75	-7.80777	-131.4	-0.00392	-0.74	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
430	31.75	31.50	-7.78635	-131.7	-0.00390	-0.74	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
431	31.50	31.25	-7.76493	-132.1	-0.00389	-0.74	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
432	31.25	31.00	-7.74351	-132.5	-0.00388	-0.75	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
433	31.00	30.75	-7.72209	-132.8	-0.00387	-0.75	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
434	30.75	30.50	-7.70067	-133.2	-0.00386	-0.75	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
435	30.50	30.25	-7.67924	-133.6	-0.00385	-0.75	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
436	30.25	30.00	-7.65782	-134.0	-0.00384	-0.75	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
437	30.00	29.75	-7.63640	-134.3	-0.00383	-0.76	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
438	29.75	29.50	-7.61498	-134.7	-0.00382	-0.76	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
439	29.50	29.25	-7.59356	-135.1	-0.00381	-0.76	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
440	29.25	29.00	-7.57214	-135.5	-0.00380	-0.76	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
441	29.00	28.75	-7.55072	-135.9	-0.00379	-0.76	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
442	28.75	28.50	-7.52930	-136.2	-0.00378	-0.77	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
443	28.50	28.25	-7.50788	-136.6	-0.00376	-0.77	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
444	28.25	28.00	-7.48646	-137.0	-0.00375	-0.77	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
445	28.00	27.75	-7.46503	-137.4	-0.00374	-0.77	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
446	27.75	27.50	-7.44361	-137.8	-0.00373	-0.78	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
447	27.50	27.25	-7.42219	-138.2	-0.00372	-0.78	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	
448	27.25	27.00	-7.40077	-138.6	-0.00371	-0.78	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004	

449	27.00	26.75	-7.37935-139.0	-0.00370	-0.78	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
450	26.75	26.50	-7.35793-139.4	-0.00369	-0.78	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
451	26.50	26.25	-7.33651-139.8	-0.00368	-0.79	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
452	26.25	26.00	-7.31509-140.2	-0.00367	-0.79	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
453	26.00	25.75	-7.29367-140.6	-0.00366	-0.79	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
454	25.75	25.50	-7.27225-141.1	-0.00365	-0.79	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
455	25.50	25.25	-7.25083-141.5	-0.00364	-0.80	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
456	25.25	25.00	-7.22940-141.9	-0.00363	-0.80	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
457	25.00	24.75	-7.20798-142.3	-0.00361	-0.80	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
458	24.75	24.50	-7.18656-142.7	-0.00360	-0.80	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
459	24.50	24.25	-7.16514-143.2	-0.00359	-0.81	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
460	24.25	24.00	-7.14372-143.6	-0.00358	-0.81	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
461	24.00	23.75	-7.12224-144.0	-0.00357	-0.81	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
462	23.75	23.50	-7.10082-144.5	-0.00356	-0.81	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
463	23.50	23.25	-7.07940-144.9	-0.00355	-0.82	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
464	23.25	23.00	-7.05798-145.3	-0.00354	-0.82	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
465	23.00	22.75	-7.03656-145.8	-0.00353	-0.82	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
466	22.75	22.50	-7.01513-146.2	-0.00352	-0.82	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
467	22.50	22.25	-6.98941-146.8	-0.00350	-0.83	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.004
468	22.25	22.00	-6.96799-147.3	-0.00349	-0.83	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.003
469	22.00	21.75	-5.06849-415.0	-0.00254	-1.14	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.003
470	21.75	21.50	-5.04707-416.8	-0.00253	-1.14	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.003
471	21.50	21.25	-5.02565-418.6	-0.00252	-1.15	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.003
472	21.25	21.00	-5.00423-420.4	-0.00251	-1.15	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.003
473	21.00	20.75	-4.98281-422.2	-0.00250	-1.16	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
474	20.75	20.50	-4.96139-424.0	-0.00249	-1.16	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
475	20.50	20.25	-4.93997-425.8	-0.00248	-1.17	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
476	20.25	20.00	-4.91855-427.7	-0.00247	-1.17	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
477	20.00	19.75	-4.89712-429.6	-0.00246	-1.18	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
478	19.75	19.50	-4.87570-431.4	-0.00244	-1.18	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
479	19.50	19.25	-4.85428-433.3	-0.00243	-1.19	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
480	19.25	19.00	-4.83286-435.3	-0.00242	-1.19	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
481	19.00	18.75	-4.81144-437.2	-0.00241	-1.20	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
482	18.75	18.50	-4.79002-439.2	-0.00240	-1.20	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
483	18.50	18.25	-4.76860-441.1	-0.00239	-1.21	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
484	18.25	18.00	-4.74718-443.1	-0.00238	-1.22	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
485	18.00	17.75	-4.72576-445.1	-0.00237	-1.22	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
486	17.75	17.50	-4.70434-447.2	-0.00236	-1.23	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
487	17.50	17.25	-4.68291-449.2	-0.00235	-1.23	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
488	17.25	17.00	-4.66149-451.3	-0.00234	-1.24	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
489	17.00	16.75	-4.64007-453.3	-0.00233	-1.24	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
490	16.75	16.50	-4.61865-455.5	-0.00232	-1.25	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
491	16.50	16.25	-4.59723-457.6	-0.00231	-1.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
492	16.25	16.00	-4.57581-459.7	-0.00229	-1.26	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
493	16.00	15.75	-4.40339-481.1	-0.00221	-1.31	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
494	15.75	15.50	-4.38197-483.5	-0.00220	-1.32	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
495	15.50	15.25	-4.36055-485.9	-0.00219	-1.32	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
496	15.25	15.00	-4.33913-488.3	-0.00218	-1.33	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
497	15.00	14.75	-4.31771-490.7	-0.00217	-1.34	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
498	14.75	14.50	-4.29628-493.1	-0.00215	-1.34	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002

499	14.50	14.25	-4.27486-495.6	-0.00214	-1.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
500	14.25	14.00	-4.25344-498.1	-0.00213	-1.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
501	14.00	13.75	-4.23202-500.6	-0.00212	-1.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
502	13.75	13.50	-4.21060-503.2	-0.00211	-1.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
503	13.50	13.25	-4.18918-505.7	-0.00210	-1.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
504	13.25	13.00	-4.16776-508.3	-0.00209	-1.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
505	13.00	12.75	-4.14634-511.0	-0.00208	-1.39	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
506	12.75	12.50	-4.12492-513.6	-0.00207	-1.40	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
507	12.50	12.25	-4.10350-516.3	-0.00206	-1.41	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
508	12.25	12.00	-4.08207-519.0	-0.00205	-1.41	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
509	12.00	11.75	-4.06065-521.8	-0.00204	-1.42	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
510	11.75	11.50	-4.03923-524.5	-0.00203	-1.43	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
511	11.50	11.25	-4.01781-527.3	-0.00201	-1.44	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
512	11.25	11.00	-3.99639-530.1	-0.00200	-1.44	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
513	11.00	10.75	-3.97497-533.0	-0.00199	-1.45	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
514	10.75	10.50	-3.95355-535.9	-0.00198	-1.46	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
515	10.50	10.25	-3.93213-538.8	-0.00197	-1.47	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
516	10.25	10.00	-3.91071-541.8	-0.00196	-1.48	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
517	10.00	9.75	-3.88929-544.7	-0.00195	-1.48	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
518	9.75	9.50	-3.86787-547.8	-0.00194	-1.49	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
519	9.50	9.25	-3.84644-550.8	-0.00193	-1.50	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
520	9.25	9.00	-3.82502-553.9	-0.00192	-1.51	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
521	9.00	8.75	-3.80360-557.0	-0.00191	-1.52	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
522	8.75	8.50	-3.78218-560.2	-0.00190	-1.53	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
523	8.50	8.25	-3.76076-563.4	-0.00189	-1.53	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
524	8.25	8.00	-3.73934-566.6	-0.00188	-1.54	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
525	8.00	7.75	-3.19130-680.4	-0.00160	-1.81	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
526	7.75	7.50	-3.16988-685.0	-0.00159	-1.82	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
527	7.50	7.25	-3.14846-689.6	-0.00158	-1.83	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
528	7.25	7.00	-3.12704-694.4	-0.00157	-1.85	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
529	7.00	6.75	-3.10561-699.2	-0.00156	-1.86	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
530	6.75	6.50	-3.08419-704.0	-0.00155	-1.87	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
531	6.50	6.25	-3.06277-708.9	-0.00154	-1.88	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
532	6.25	6.00	-3.04135-713.9	-0.00153	-1.90	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
533	6.00	5.75	-3.01993-719.0	-0.00151	-1.91	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
534	5.75	5.50	-2.99851-724.1	-0.00150	-1.92	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
535	5.50	5.25	-2.97709-729.3	-0.00149	-1.94	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.001
536	5.25	5.00	-2.95567-734.6	-0.00148	-1.95	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.001
537	5.00	4.75	-2.93425-740.0	-0.00147	-1.97	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.001
538	4.75	4.50	-2.91283-745.4	-0.00146	-1.98	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.001
539	4.50	4.25	-2.89141-751.0	-0.00145	-2.00	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.001
540	4.25	4.00	-2.86998-756.6	-0.00144	-2.01	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.001
541	4.00	3.75	-4.26420-762.3	-0.00214	-1.35	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
542	3.75	3.50	-4.24278-766.1	-0.00213	-1.36	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
543	3.50	3.25	-4.22136-770.0	-0.00212	-1.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
544	3.25	3.00	-4.19994-773.9	-0.00211	-1.37	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
545	3.00	2.75	-4.17852-777.9	-0.00210	-1.38	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
546	2.75	2.50	-4.15710-781.9	-0.00208	-1.39	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
547	2.50	2.25	-4.13568-785.9	-0.00207	-1.40	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002
548	2.25	2.00	-4.11426-790.0	-0.00206	-1.40	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002

549	2.00	1.75	-4.09279	-794.2	-0.00205	-1.41	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002										
550	1.75	1.50	-4.07136	-798.4	-0.00204	-1.42	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002										
551	1.50	1.25	-4.04994	-802.6	-0.00203	-1.42	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002										
552	1.25	1.00	-4.02852	-806.9	-0.00202	-1.43	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002										
553	1.00	0.75	-4.00710	-811.2	-0.00201	-1.44	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002										
554	0.75	0.50	-3.98568	-815.5	-0.00200	-1.45	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002										
555	0.50	0.25	-3.96426	-819.9	-0.00199	-1.46	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002										
556	0.25	0.00	-3.94284	-824.4	-0.00198	-1.46	12.80	155.80	498560.03	38950.00	1994.24	0.00	0.000	0.900	0.002										
TOT				-175.72					75781128.00	5920400.00															
AVG					-0.0025		12.80	155.80			1994.24														
CUM				209.82																					

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	mg/L		1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da	
405	37.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	
406	37.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	
407	37.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	
408	37.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
409	36.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
410	36.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
411	36.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
412	36.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
413	35.750	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
414	35.500	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
415	35.250	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
416	35.000	7.32	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
417	34.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
418	34.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
419	34.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.00	
420	34.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
421	33.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
422	33.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
423	33.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
424	33.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
425	32.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
426	32.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
427	32.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
428	32.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
429	31.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
430	31.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
431	31.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	
432	31.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	
433	30.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	
434	30.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	
435	30.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	
436	30.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	
437	29.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	
438	29.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	
439	29.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	

440	29.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
441	28.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
442	28.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
443	28.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00
444	28.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
445	27.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
446	27.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
447	27.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
448	27.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
449	26.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
450	26.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
451	26.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
452	26.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
453	25.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
454	25.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
455	25.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00
456	25.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
457	24.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
458	24.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
459	24.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
460	24.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
461	23.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
462	23.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
463	23.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
464	23.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
465	22.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
466	22.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
467	22.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.27	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
468	22.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00
469	21.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
470	21.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
471	21.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.28	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
472	21.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
473	20.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
474	20.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
475	20.250	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
476	20.000	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
477	19.750	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
478	19.500	7.31	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
479	19.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
480	19.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00
481	18.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
482	18.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
483	18.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
484	18.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
485	17.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
486	17.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
487	17.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
488	17.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
489	16.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00

490	16.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
491	16.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
492	16.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
493	15.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
494	15.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
495	15.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
496	15.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
497	14.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
498	14.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
499	14.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
500	14.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
501	13.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
502	13.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
503	13.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
504	13.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
505	12.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
506	12.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
507	12.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
508	12.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
509	11.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
510	11.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
511	11.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
512	11.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
513	10.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
514	10.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
515	10.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
516	10.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
517	9.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
518	9.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
519	9.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
520	9.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
521	8.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
522	8.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
523	8.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
524	8.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
525	7.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
526	7.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
527	7.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
528	7.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
529	6.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
530	6.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
531	6.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
532	6.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
533	5.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
534	5.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
535	5.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
536	5.000	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
537	4.750	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
538	4.500	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
539	4.250	7.30	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00

540	4.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.29	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
541	3.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
542	3.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
543	3.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
544	3.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
545	2.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
546	2.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
547	2.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
548	2.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
549	1.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
550	1.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.28	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
551	1.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.27	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
552	1.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.27	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00
553	0.750	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
554	0.500	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
555	0.250	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
556	0.000	7.29	0.07	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.27	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.05	0.15	0.00	0.00	0.00	0.00	0.00	0.40			0.02	0.00	0.13	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT		CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
					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			
405	37.750	31.90	0.00	0.00	0.00	6.82	3.33	0.00	3.33	0.00	0.96	0.09	0.00	1.05	0.00	23.98	0.00	0.	0.00	
406	37.500	31.90	0.00	0.00	0.00	7.30	3.32	0.00	3.32	0.00	0.91	0.08	0.00	0.99	0.00	23.96	0.00	0.	0.00	
407	37.250	31.90	0.00	0.00	0.00	7.50	3.33	0.00	3.33	0.00	0.88	0.08	0.00	0.96	0.00	23.94	0.00	0.	0.00	
408	37.000	31.91	0.00	0.00	0.00	7.59	3.34	0.00	3.34	0.00	0.87	0.08	0.00	0.95	0.00	23.92	0.00	0.	0.00	
409	36.750	31.91	0.00	0.00	0.00	7.62	3.36	0.00	3.36	0.00	0.87	0.08	0.00	0.95	0.00	23.90	0.00	0.	0.00	
410	36.500	31.91	0.00	0.00	0.00	7.63	3.38	0.00	3.38	0.00	0.87	0.08	0.00	0.95	0.00	23.88	0.00	0.	0.00	
411	36.250	31.91	0.00	0.00	0.00	7.62	3.40	0.00	3.40	0.00	0.87	0.08	0.00	0.95	0.00	23.86	0.00	0.	0.00	
412	36.000	31.91	0.00	0.00	0.00	7.62	3.43	0.00	3.43	0.00	0.87	0.08	0.00	0.95	0.00	23.84	0.00	0.	0.00	
413	35.750	31.91	0.00	0.00	0.00	7.62	3.47	0.00	3.47	0.00	0.88	0.08	0.00	0.95	0.00	23.82	0.00	0.	0.00	
414	35.500	31.91	0.00	0.00	0.00	7.71	3.32	0.00	3.32	0.00	0.85	0.08	0.00	0.93	0.00	23.80	0.00	0.	0.00	
415	35.250	31.91	0.00	0.00	0.00	7.74	3.27	0.00	3.27	0.00	0.85	0.08	0.00	0.92	0.00	23.78	0.00	0.	0.00	
416	35.000	31.92	0.00	0.00	0.00	7.75	3.24	0.00	3.24	0.00	0.84	0.08	0.00	0.92	0.00	23.76	0.00	0.	0.00	
417	34.750	31.92	0.00	0.00	0.00	7.73	3.23	0.00	3.23	0.00	0.84	0.08	0.00	0.92	0.00	23.74	0.00	0.	0.00	
418	34.500	31.92	0.00	0.00	0.00	7.71	3.23	0.00	3.23	0.00	0.84	0.08	0.00	0.92	0.00	23.72	0.00	0.	0.00	
419	34.250	31.92	0.00	0.00	0.00	7.69	3.23	0.00	3.23	0.00	0.84	0.08	0.00	0.92	0.00	23.70	0.00	0.	0.00	
420	34.000	31.92	0.00	0.00	0.00	7.66	3.23	0.00	3.23	0.00	0.84	0.08	0.00	0.92	0.00	23.68	0.00	0.	0.00	
421	33.750	31.92	0.00	0.00	0.00	7.63	3.23	0.00	3.23	0.00	0.84	0.08	0.00	0.92	0.00	23.66	0.00	0.	0.00	
422	33.500	31.92	0.00	0.00	0.00	7.60	3.23	0.00	3.23	0.00	0.85	0.08	0.00	0.92	0.00	23.64	0.00	0.	0.00	
423	33.250	31.92	0.00	0.00	0.00	7.57	3.23	0.00	3.23	0.00	0.85	0.08	0.00	0.92	0.00	23.62	0.00	0.	0.00	
424	33.000	31.93	0.00	0.00	0.00	7.54	3.23	0.00	3.23	0.00	0.85	0.08	0.00	0.93	0.00	23.61	0.00	0.	0.00	
425	32.750	31.93	0.00	0.00	0.00	7.51	3.23	0.00	3.23	0.00	0.85	0.08	0.00	0.93	0.00	23.59	0.00	0.	0.00	
426	32.500	31.93	0.00	0.00	0.00	7.47	3.23	0.00	3.23	0.00	0.85	0.08	0.00	0.93	0.00	23.57	0.00	0.	0.00	
427	32.250	31.93	0.00	0.00	0.00	7.44	3.23	0.00	3.23	0.00	0.85	0.08	0.00	0.93	0.00	23.55	0.00	0.	0.00	
428	32.000	31.93	0.00	0.00	0.00	7.40	3.23	0.00	3.23	0.00	0.86	0.08	0.00	0.93	0.00	23.53	0.00	0.	0.00	
429	31.750	31.93	0.00	0.00	0.00	7.36	3.23	0.00	3.23	0.00	0.86	0.08	0.00	0.94	0.00	23.51	0.00	0.	0.00	
430	31.500	31.93	0.00	0.00	0.00	7.32	3.23	0.00	3.23	0.00	0.86	0.08	0.00	0.94	0.00	23.49	0.00	0.	0.00	
431	31.250	31.94	0.00	0.00	0.00	7.28	3.23	0.00	3.23	0.00	0.86	0.08	0.00	0.94	0.00	23.47	0.00	0.	0.00	
432	31.000	31.94	0.00	0.00	0.00	7.24	3.23	0.00	3.23	0.00	0.86	0.08	0.00	0.94	0.00	23.45	0.00	0.	0.00	

433	30.750	31.94	0.00	0.00	0.00	7.20	3.23	0.00	3.23	0.00	0.87	0.08	0.00	0.94	0.00	23.43	0.00	0.	0.00
434	30.500	31.94	0.00	0.00	0.00	7.16	3.23	0.00	3.23	0.00	0.87	0.08	0.00	0.95	0.00	23.41	0.00	0.	0.00
435	30.250	31.94	0.00	0.00	0.00	7.11	3.23	0.00	3.23	0.00	0.87	0.08	0.00	0.95	0.00	23.39	0.00	0.	0.00
436	30.000	31.94	0.00	0.00	0.00	7.06	3.23	0.00	3.23	0.00	0.87	0.08	0.00	0.95	0.00	23.37	0.00	0.	0.00
437	29.750	31.94	0.00	0.00	0.00	7.01	3.23	0.00	3.23	0.00	0.87	0.08	0.00	0.95	0.00	23.35	0.00	0.	0.00
438	29.500	31.94	0.00	0.00	0.00	6.96	3.23	0.00	3.23	0.00	0.88	0.08	0.00	0.96	0.00	23.33	0.00	0.	0.00
439	29.250	31.95	0.00	0.00	0.00	6.91	3.23	0.00	3.23	0.00	0.88	0.08	0.00	0.96	0.00	23.31	0.00	0.	0.00
440	29.000	31.95	0.00	0.00	0.00	6.86	3.24	0.00	3.24	0.00	0.88	0.08	0.00	0.96	0.00	23.29	0.00	0.	0.00
441	28.750	31.95	0.00	0.00	0.00	6.80	3.24	0.00	3.24	0.00	0.88	0.08	0.00	0.97	0.00	23.27	0.00	0.	0.00
442	28.500	31.95	0.00	0.00	0.00	6.75	3.24	0.00	3.24	0.00	0.89	0.08	0.00	0.97	0.00	23.25	0.00	0.	0.00
443	28.250	31.95	0.00	0.00	0.00	6.69	3.25	0.00	3.25	0.00	0.89	0.08	0.00	0.97	0.00	23.23	0.00	0.	0.00
444	28.000	31.95	0.00	0.00	0.00	6.63	3.25	0.00	3.25	0.00	0.89	0.08	0.00	0.97	0.00	23.21	0.00	0.	0.00
445	27.750	31.95	0.00	0.00	0.00	6.57	3.25	0.00	3.25	0.00	0.89	0.08	0.00	0.98	0.00	23.19	0.00	0.	0.00
446	27.500	31.96	0.00	0.00	0.00	6.50	3.26	0.00	3.26	0.00	0.90	0.08	0.00	0.98	0.00	23.17	0.00	0.	0.00
447	27.250	31.96	0.00	0.00	0.00	6.44	3.27	0.00	3.27	0.00	0.90	0.08	0.00	0.98	0.00	23.15	0.00	0.	0.00
448	27.000	31.96	0.00	0.00	0.00	6.37	3.28	0.00	3.28	0.00	0.90	0.08	0.00	0.99	0.00	23.13	0.00	0.	0.00
449	26.750	31.96	0.00	0.00	0.00	6.30	3.29	0.00	3.29	0.00	0.91	0.08	0.00	0.99	0.00	23.11	0.00	0.	0.00
450	26.500	31.96	0.00	0.00	0.00	6.23	3.30	0.00	3.30	0.00	0.91	0.09	0.00	0.99	0.00	23.09	0.00	0.	0.00
451	26.250	31.96	0.00	0.00	0.00	6.16	3.31	0.00	3.31	0.00	0.91	0.09	0.00	1.00	0.00	23.07	0.00	0.	0.00
452	26.000	31.96	0.00	0.00	0.00	6.09	3.33	0.00	3.33	0.00	0.91	0.09	0.00	1.00	0.00	23.05	0.00	0.	0.00
453	25.750	31.96	0.00	0.00	0.00	6.02	3.35	0.00	3.35	0.00	0.92	0.09	0.00	1.00	0.00	23.03	0.00	0.	0.00
454	25.500	31.97	0.00	0.00	0.00	5.95	3.37	0.00	3.37	0.00	0.92	0.09	0.00	1.01	0.00	23.01	0.00	0.	0.00
455	25.250	31.97	0.00	0.00	0.00	5.87	3.40	0.00	3.40	0.00	0.92	0.09	0.00	1.01	0.00	22.99	0.00	0.	0.00
456	25.000	31.97	0.00	0.00	0.00	5.81	3.43	0.00	3.43	0.00	0.93	0.09	0.00	1.02	0.00	22.97	0.00	0.	0.00
457	24.750	31.97	0.00	0.00	0.00	5.74	3.47	0.00	3.47	0.00	0.93	0.09	0.00	1.02	0.00	22.95	0.00	0.	0.00
458	24.500	31.97	0.00	0.00	0.00	5.67	3.51	0.00	3.51	0.00	0.94	0.09	0.00	1.02	0.00	22.93	0.00	0.	0.00
459	24.250	31.97	0.00	0.00	0.00	5.62	3.57	0.00	3.57	0.00	0.94	0.09	0.00	1.03	0.00	22.91	0.00	0.	0.00
460	24.000	31.97	0.00	0.00	0.00	5.57	3.63	0.00	3.63	0.00	0.94	0.09	0.00	1.03	0.00	22.89	0.00	0.	0.00
461	23.750	31.97	0.00	0.00	0.00	5.52	3.71	0.00	3.71	0.00	0.95	0.09	0.00	1.04	0.00	22.88	0.00	0.	0.00
462	23.500	31.98	0.00	0.00	0.00	5.49	3.79	0.00	3.79	0.00	0.95	0.09	0.00	1.04	0.00	22.86	0.00	0.	0.00
463	23.250	31.98	0.00	0.00	0.00	5.48	3.90	0.00	3.90	0.00	0.96	0.09	0.00	1.04	0.00	22.84	0.00	0.	0.00
464	23.000	31.98	0.00	0.00	0.00	5.48	4.03	0.00	4.03	0.00	0.96	0.09	0.00	1.05	0.00	22.82	0.00	0.	0.00
465	22.750	31.98	0.00	0.00	0.00	5.50	4.18	0.00	4.18	0.00	0.96	0.09	0.00	1.05	0.00	22.80	0.00	0.	0.00
466	22.500	31.98	0.00	0.00	0.00	5.56	4.36	0.00	4.36	0.00	0.97	0.09	0.00	1.06	0.00	22.78	0.00	0.	0.00
467	22.250	31.98	0.00	0.00	0.00	5.65	4.57	0.00	4.57	0.00	0.97	0.09	0.00	1.06	0.00	22.76	0.00	0.	0.00
468	22.000	31.98	0.00	0.00	0.00	5.78	4.80	0.00	4.80	0.00	0.98	0.09	0.00	1.06	0.00	22.74	0.00	0.	0.00
469	21.750	31.99	0.00	0.00	0.00	5.96	5.09	0.00	5.09	0.00	0.98	0.08	0.00	1.07	0.00	22.72	0.00	0.	0.00
470	21.500	31.99	0.00	0.00	0.00	6.53	4.11	0.00	4.11	0.00	0.88	0.08	0.00	0.96	0.00	22.70	0.00	0.	0.00
471	21.250	31.99	0.00	0.00	0.00	6.93	3.64	0.00	3.64	0.00	0.82	0.07	0.00	0.90	0.00	22.68	0.00	0.	0.00
472	21.000	31.99	0.00	0.00	0.00	7.19	3.42	0.00	3.42	0.00	0.79	0.07	0.00	0.86	0.00	22.66	0.00	0.	0.00
473	20.750	31.99	0.00	0.00	0.00	7.36	3.31	0.00	3.31	0.00	0.77	0.07	0.00	0.84	0.00	22.64	0.00	0.	0.00
474	20.500	31.99	0.00	0.00	0.00	7.45	3.26	0.00	3.26	0.00	0.76	0.07	0.00	0.83	0.00	22.62	0.00	0.	0.00
475	20.250	31.99	0.00	0.00	0.00	7.50	3.24	0.00	3.24	0.00	0.75	0.07	0.00	0.82	0.00	22.60	0.00	0.	0.00
476	20.000	31.99	0.00	0.00	0.00	7.52	3.23	0.00	3.23	0.00	0.75	0.07	0.00	0.82	0.00	22.58	0.00	0.	0.00
477	19.750	32.00	0.00	0.00	0.00	7.53	3.22	0.00	3.22	0.00	0.75	0.07	0.00	0.81	0.00	22.56	0.00	0.	0.00
478	19.500	32.00	0.00	0.00	0.00	7.53	3.22	0.00	3.22	0.00	0.74	0.07	0.00	0.81	0.00	22.54	0.00	0.	0.00
479	19.250	32.00	0.00	0.00	0.00	7.52	3.22	0.00	3.22	0.00	0.74	0.07	0.00	0.81	0.00	22.52	0.00	0.	0.00
480	19.000	32.00	0.00	0.00	0.00	7.51	3.22	0.00	3.22	0.00	0.74	0.07	0.00	0.81	0.00	22.50	0.00	0.	0.00
481	18.750	32.00	0.00	0.00	0.00	7.50	3.22	0.00	3.22	0.00	0.74	0.07	0.00	0.81	0.00	22.48	0.00	0.	0.00
482	18.500	32.00	0.00	0.00	0.00	7.48	3.22	0.00	3.22	0.00	0.74	0.07	0.00	0.80	0.00	22.46	0.00	0.	0.00

483	18.250	32.00	0.00	0.00	0.00	7.47	3.22	0.00	3.22	0.00	0.74	0.07	0.00	0.80	0.00	22.44	0.00	0.	0.00
484	18.000	32.01	0.00	0.00	0.00	7.45	3.23	0.00	3.23	0.00	0.74	0.07	0.00	0.80	0.00	22.42	0.00	0.	0.00
485	17.750	32.01	0.00	0.00	0.00	7.43	3.23	0.00	3.23	0.00	0.74	0.07	0.00	0.80	0.00	22.40	0.00	0.	0.00
486	17.500	32.01	0.00	0.00	0.00	7.42	3.23	0.00	3.23	0.00	0.74	0.07	0.00	0.80	0.00	22.38	0.00	0.	0.00
487	17.250	32.01	0.00	0.00	0.00	7.40	3.24	0.00	3.24	0.00	0.73	0.07	0.00	0.80	0.00	22.36	0.00	0.	0.00
488	17.000	32.01	0.00	0.00	0.00	7.39	3.24	0.00	3.24	0.00	0.73	0.06	0.00	0.80	0.00	22.34	0.00	0.	0.00
489	16.750	32.01	0.00	0.00	0.00	7.37	3.25	0.00	3.25	0.00	0.73	0.06	0.00	0.80	0.00	22.32	0.00	0.	0.00
490	16.500	32.01	0.00	0.00	0.00	7.36	3.26	0.00	3.26	0.00	0.73	0.06	0.00	0.80	0.00	22.30	0.00	0.	0.00
491	16.250	32.01	0.00	0.00	0.00	7.35	3.27	0.00	3.27	0.00	0.73	0.06	0.00	0.79	0.00	22.28	0.00	0.	0.00
492	16.000	32.02	0.00	0.00	0.00	7.34	3.29	0.00	3.29	0.00	0.73	0.06	0.00	0.79	0.00	22.26	0.00	0.	0.00
493	15.750	32.02	0.00	0.00	0.00	7.34	3.30	0.00	3.30	0.00	0.73	0.06	0.00	0.79	0.00	22.24	0.00	0.	0.00
494	15.500	32.02	0.00	0.00	0.00	7.37	3.26	0.00	3.26	0.00	0.72	0.06	0.00	0.79	0.00	22.22	0.00	0.	0.00
495	15.250	32.02	0.00	0.00	0.00	7.38	3.23	0.00	3.23	0.00	0.72	0.06	0.00	0.78	0.00	22.20	0.00	0.	0.00
496	15.000	32.02	0.00	0.00	0.00	7.39	3.22	0.00	3.22	0.00	0.72	0.06	0.00	0.78	0.00	22.18	0.00	0.	0.00
497	14.750	32.02	0.00	0.00	0.00	7.39	3.22	0.00	3.22	0.00	0.71	0.06	0.00	0.78	0.00	22.16	0.00	0.	0.00
498	14.500	32.02	0.00	0.00	0.00	7.38	3.21	0.00	3.21	0.00	0.71	0.06	0.00	0.78	0.00	22.14	0.00	0.	0.00
499	14.250	32.02	0.00	0.00	0.00	7.37	3.21	0.00	3.21	0.00	0.71	0.06	0.00	0.77	0.00	22.12	0.00	0.	0.00
500	14.000	32.03	0.00	0.00	0.00	7.36	3.21	0.00	3.21	0.00	0.71	0.06	0.00	0.77	0.00	22.11	0.00	0.	0.00
501	13.750	32.03	0.00	0.00	0.00	7.35	3.21	0.00	3.21	0.00	0.71	0.06	0.00	0.77	0.00	22.09	0.00	0.	0.00
502	13.500	32.03	0.00	0.00	0.00	7.33	3.21	0.00	3.21	0.00	0.70	0.06	0.00	0.77	0.00	22.07	0.00	0.	0.00
503	13.250	32.03	0.00	0.00	0.00	7.31	3.21	0.00	3.21	0.00	0.70	0.06	0.00	0.76	0.00	22.05	0.00	0.	0.00
504	13.000	32.03	0.00	0.00	0.00	7.29	3.21	0.00	3.21	0.00	0.70	0.06	0.00	0.76	0.00	22.03	0.00	0.	0.00
505	12.750	32.03	0.00	0.00	0.00	7.28	3.21	0.00	3.21	0.00	0.70	0.06	0.00	0.76	0.00	22.01	0.00	0.	0.00
506	12.500	32.03	0.00	0.00	0.00	7.26	3.21	0.00	3.21	0.00	0.69	0.06	0.00	0.75	0.00	21.99	0.00	0.	0.00
507	12.250	32.04	0.00	0.00	0.00	7.24	3.21	0.00	3.21	0.00	0.69	0.06	0.00	0.75	0.00	21.97	0.00	0.	0.00
508	12.000	32.04	0.00	0.00	0.00	7.21	3.21	0.00	3.21	0.00	0.69	0.06	0.00	0.75	0.00	21.95	0.00	0.	0.00
509	11.750	32.04	0.00	0.00	0.00	7.19	3.22	0.00	3.22	0.00	0.68	0.06	0.00	0.74	0.00	21.93	0.00	0.	0.00
510	11.500	32.04	0.00	0.00	0.00	7.17	3.22	0.00	3.22	0.00	0.68	0.06	0.00	0.74	0.00	21.91	0.00	0.	0.00
511	11.250	32.04	0.00	0.00	0.00	7.14	3.22	0.00	3.22	0.00	0.68	0.06	0.00	0.74	0.00	21.89	0.00	0.	0.00
512	11.000	32.04	0.00	0.00	0.00	7.11	3.22	0.00	3.22	0.00	0.67	0.06	0.00	0.73	0.00	21.87	0.00	0.	0.00
513	10.750	32.04	0.00	0.00	0.00	7.08	3.23	0.00	3.23	0.00	0.67	0.06	0.00	0.73	0.00	21.85	0.00	0.	0.00
514	10.500	32.04	0.00	0.00	0.00	7.06	3.23	0.00	3.23	0.00	0.67	0.06	0.00	0.73	0.00	21.83	0.00	0.	0.00
515	10.250	32.05	0.00	0.00	0.00	7.03	3.24	0.00	3.24	0.00	0.66	0.06	0.00	0.72	0.00	21.81	0.00	0.	0.00
516	10.000	32.05	0.00	0.00	0.00	6.99	3.24	0.00	3.24	0.00	0.66	0.06	0.00	0.72	0.00	21.79	0.00	0.	0.00
517	9.750	32.05	0.00	0.00	0.00	6.96	3.25	0.00	3.25	0.00	0.65	0.06	0.00	0.71	0.00	21.77	0.00	0.	0.00
518	9.500	32.05	0.00	0.00	0.00	6.93	3.27	0.00	3.27	0.00	0.65	0.06	0.00	0.71	0.00	21.75	0.00	0.	0.00
519	9.250	32.05	0.00	0.00	0.00	6.90	3.28	0.00	3.28	0.00	0.64	0.06	0.00	0.70	0.00	21.73	0.00	0.	0.00
520	9.000	32.05	0.00	0.00	0.00	6.87	3.30	0.00	3.30	0.00	0.64	0.06	0.00	0.70	0.00	21.71	0.00	0.	0.00
521	8.750	32.05	0.00	0.00	0.00	6.84	3.33	0.00	3.33	0.00	0.63	0.06	0.00	0.69	0.00	21.69	0.00	0.	0.00
522	8.500	32.06	0.00	0.00	0.00	6.82	3.37	0.00	3.37	0.00	0.63	0.06	0.00	0.68	0.00	21.67	0.00	0.	0.00
523	8.250	32.06	0.00	0.00	0.00	6.81	3.41	0.00	3.41	0.00	0.62	0.06	0.00	0.68	0.00	21.65	0.00	0.	0.00
524	8.000	32.06	0.00	0.00	0.00	6.80	3.47	0.00	3.47	0.00	0.62	0.05	0.00	0.67	0.00	21.63	0.00	0.	0.00
525	7.750	32.06	0.00	0.00	0.00	6.82	3.54	0.00	3.54	0.00	0.61	0.05	0.00	0.67	0.00	21.61	0.00	0.	0.00
526	7.500	32.06	0.00	0.00	0.00	6.94	3.38	0.00	3.38	0.00	0.59	0.05	0.00	0.64	0.00	21.59	0.00	0.	0.00
527	7.250	32.06	0.00	0.00	0.00	7.04	3.30	0.00	3.30	0.00	0.57	0.05	0.00	0.62	0.00	21.57	0.00	0.	0.00
528	7.000	32.06	0.00	0.00	0.00	7.10	3.26	0.00	3.26	0.00	0.56	0.05	0.00	0.60	0.00	21.55	0.00	0.	0.00
529	6.750	32.06	0.00	0.00	0.00	7.14	3.23	0.00	3.23	0.00	0.54	0.05	0.00	0.59	0.00	21.53	0.00	0.	0.00
530	6.500	32.07	0.00	0.00	0.00	7.15	3.22	0.00	3.22	0.00	0.53	0.05	0.00	0.57	0.00	21.51	0.00	0.	0.00
531	6.250	32.07	0.00	0.00	0.00	7.15	3.21	0.00	3.21	0.00	0.51	0.04	0.00	0.56	0.00	21.49	0.00	0.	0.00
532	6.000	32.07	0.00	0.00	0.00	7.14	3.21	0.00	3.21	0.00	0.50	0.04	0.00	0.54	0.00	21.47	0.00	0.	0.00

533	5.750	32.07	0.00	0.00	0.00	7.12	3.21	0.00	3.21	0.00	0.49	0.04	0.00	0.53	0.00	21.45	0.00	0.	0.00
534	5.500	32.07	0.00	0.00	0.00	7.08	3.21	0.00	3.21	0.00	0.47	0.04	0.00	0.51	0.00	21.43	0.00	0.	0.00
535	5.250	32.07	0.00	0.00	0.00	7.04	3.21	0.00	3.21	0.00	0.46	0.04	0.00	0.50	0.00	21.41	0.00	0.	0.00
536	5.000	32.07	0.00	0.00	0.00	7.00	3.21	0.00	3.21	0.00	0.44	0.04	0.00	0.48	0.00	21.39	0.00	0.	0.00
537	4.750	32.07	0.00	0.00	0.00	6.94	3.21	0.00	3.21	0.00	0.42	0.04	0.00	0.46	0.00	21.38	0.00	0.	0.00
538	4.500	32.08	0.00	0.00	0.00	6.87	3.21	0.00	3.21	0.00	0.41	0.03	0.00	0.44	0.00	21.36	0.00	0.	0.00
539	4.250	32.08	0.00	0.00	0.00	6.80	3.21	0.00	3.21	0.00	0.39	0.03	0.00	0.42	0.00	21.34	0.00	0.	0.00
540	4.000	32.08	0.00	0.00	0.00	6.72	3.21	0.00	3.21	0.00	0.37	0.03	0.00	0.40	0.00	21.32	0.00	0.	0.00
541	3.750	32.08	0.00	0.00	0.00	6.62	3.22	0.00	3.22	0.00	0.35	0.03	0.00	0.38	0.00	21.30	0.00	0.	0.00
542	3.500	32.08	0.00	0.00	0.00	6.53	3.22	0.00	3.22	0.00	0.33	0.03	0.00	0.36	0.00	21.28	0.00	0.	0.00
543	3.250	32.08	0.00	0.00	0.00	6.43	3.22	0.00	3.22	0.00	0.31	0.03	0.00	0.34	0.00	21.26	0.00	0.	0.00
544	3.000	32.08	0.00	0.00	0.00	6.33	3.23	0.00	3.23	0.00	0.29	0.03	0.00	0.32	0.00	21.24	0.00	0.	0.00
545	2.750	32.09	0.00	0.00	0.00	6.23	3.24	0.00	3.24	0.00	0.27	0.03	0.00	0.30	0.00	21.22	0.00	0.	0.00
546	2.500	32.09	0.00	0.00	0.00	6.12	3.25	0.00	3.25	0.00	0.25	0.03	0.00	0.28	0.00	21.20	0.00	0.	0.00
547	2.250	32.09	0.00	0.00	0.00	6.00	3.26	0.00	3.26	0.00	0.24	0.03	0.00	0.27	0.00	21.18	0.00	0.	0.00
548	2.000	32.09	0.00	0.00	0.00	5.87	3.28	0.00	3.28	0.00	0.21	0.03	0.00	0.25	0.00	21.16	0.00	0.	0.00
549	1.750	32.09	0.00	0.00	0.00	5.74	3.30	0.00	3.30	0.00	0.19	0.04	0.00	0.23	0.00	21.14	0.00	0.	0.00
550	1.500	32.09	0.00	0.00	0.00	5.61	3.32	0.00	3.32	0.00	0.17	0.04	0.00	0.21	0.00	21.12	0.00	0.	0.00
551	1.250	32.09	0.00	0.00	0.00	5.48	3.35	0.00	3.35	0.00	0.15	0.05	0.00	0.20	0.00	21.10	0.00	0.	0.00
552	1.000	32.09	0.00	0.00	0.00	5.35	3.39	0.00	3.39	0.00	0.12	0.05	0.00	0.18	0.00	21.08	0.00	0.	0.00
553	0.750	32.10	0.00	0.00	0.00	5.23	3.45	0.00	3.45	0.00	0.10	0.07	0.00	0.17	0.00	21.06	0.00	0.	0.00
554	0.500	32.10	0.00	0.00	0.00	5.12	3.52	0.00	3.52	0.00	0.07	0.08	0.00	0.16	0.00	21.04	0.00	0.	0.00
555	0.250	32.10	0.00	0.00	0.00	5.04	3.60	0.00	3.60	0.00	0.05	0.10	0.11	0.26	0.00	21.02	0.00	0.	0.00
556	0.000	32.10	0.00	0.00	0.00	5.00	3.71	0.00	3.71	0.00	0.02	0.13	0.21	0.36	0.00	21.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL TMDL for Gulf ICWW and Bayou Black

ICWW

TRAVEL TIME = 209.82 DAYS
MAXIMUM EFFLUENT = 181.73 PERCENT
FLOW = -13.99368 TO 50.55986 m^3/s
DISPERSION = 0.3000 TO 0.9000 m^2/s
VELOCITY = -0.00604 TO 0.01812 m/s
DEPTH = 9.30 TO 13.35 m
WIDTH = 155.80 TO 395.30 m
BOD DECAY = 0.25 TO 0.26 per day
NH3 DECAY = 0.27 TO 0.29 per day
SOD = 0.85 TO 4.66 $g/m^2/d$
NH3 SOURCE = 0.00 TO 0.00 $g/m^2/d$
REAERATION = 0.07 TO 0.09 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day
TEMPERATURE = 31.22 TO 32.30 deg C
DISSOLVED OXYGEN = 5.00 TO 8.21 mg/L

FINAL REPORT Bayou Black LA-QUAL TMDL for Gulf ICWW and Bayou Black

REACH NO. 5 Bayou Black

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 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	NCM
225	HDWTR	4.58300	30.70	0.00	0.00	0.00	5.00	4.00	0.00	4.00	0.00	1.41	0.30	0.00	0.00	25.00	0.00	0.00
EACH	INCR	0.00400	30.00	0.00	0.00	0.00	5.00	3.70	0.00			1.10	0.10	0.00	0.00	0.00	0.00	

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

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	PCT EFF	ADVCTV VELO	TRAVEL TIME	DEPTH	WIDTH	VOLUME AREA	SURFACE AREA	X-SECT PRISM	TIDAL VELO	TIDAL VELO	DISPRSN	MEAN
	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
225	45.00	44.75	4.58700	0.0	0.00510		0.57	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
226	44.75	44.50	4.59100	0.0	0.00511		0.57	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
227	44.50	44.25	4.59500	0.0	0.00511		0.57	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
228	44.25	44.00	4.59900	0.0	0.00512		0.57	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
229	44.00	43.75	4.60300	0.0	0.00512		0.57	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
230	43.75	43.50	4.60700	0.0	0.00512		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
231	43.50	43.25	4.61100	0.0	0.00513		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
232	43.25	43.00	4.61500	0.0	0.00513		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
233	43.00	42.75	4.61900	0.0	0.00514		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
234	42.75	42.50	4.62300	0.0	0.00514		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
235	42.50	42.25	4.62700	0.0	0.00515		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
236	42.25	42.00	4.63100	0.0	0.00515		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
237	42.00	41.75	4.63500	0.0	0.00516		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
238	41.75	41.50	4.63900	0.0	0.00516		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
239	41.50	41.25	4.64300	0.0	0.00516		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
240	41.25	41.00	4.64700	0.0	0.00517		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
241	41.00	40.75	4.65100	0.0	0.00517		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
242	40.75	40.50	4.65500	0.0	0.00518		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
243	40.50	40.25	4.65900	0.0	0.00518		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
244	40.25	40.00	4.66300	0.0	0.00519		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
245	40.00	39.75	4.66700	0.0	0.00519		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
246	39.75	39.50	4.67100	0.0	0.00520		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
247	39.50	39.25	4.67500	0.0	0.00520		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
248	39.25	39.00	4.67900	0.0	0.00520		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
249	39.00	38.75	4.68300	0.0	0.00521		0.56	4.57	196.71	224741.20		49177.50	898.96	0.00	0.000	0.200	0.005
TOT																	
AVG				14.03						5618529.50	1229437.50						
CUM				0.0052			4.57	196.71			898.96						
				14.03													

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da			
225	44.750	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.42	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
226	44.500	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.42	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
227	44.250	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.42	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
228	44.000	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.42	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
229	43.750	7.29	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.43	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
230	43.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.43	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
231	43.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.43	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
232	43.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.44	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
233	42.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.44	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
234	42.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.44	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
235	42.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
236	42.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
237	41.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	

238	41.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
239	41.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
240	41.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
241	40.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
242	40.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
243	40.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
244	40.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
245	39.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
246	39.500	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
247	39.250	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
248	39.000	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
249	38.750	7.30	0.19	0.26	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.45	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.15	0.15	0.00	0.00	0.00	0.00	0.00	0.40			0.02	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL				
225	44.750	32.10	0.00	0.00	0.00	5.03	3.44	0.00	3.44	0.00	1.39	0.25	0.00	1.64	0.00	25.00	0.00	0.	0.00
226	44.500	32.09	0.00	0.00	0.00	5.13	3.03	0.00	3.03	0.00	1.37	0.22	0.00	1.59	0.00	25.00	0.00	0.	0.00
227	44.250	32.09	0.00	0.00	0.00	5.29	2.66	0.00	2.66	0.00	1.35	0.20	0.00	1.54	0.00	25.00	0.00	0.	0.00
228	44.000	32.08	0.00	0.00	0.00	5.50	2.34	0.00	2.34	0.00	1.33	0.17	0.00	1.50	0.00	25.00	0.00	0.	0.00
229	43.750	32.08	0.00	0.00	0.00	5.74	2.07	0.00	2.07	0.00	1.31	0.16	0.00	1.47	0.00	25.00	0.00	0.	0.00
230	43.500	32.08	0.00	0.00	0.00	5.99	1.83	0.00	1.83	0.00	1.29	0.14	0.00	1.43	0.00	25.00	0.00	0.	0.00
231	43.250	32.07	0.00	0.00	0.00	6.26	1.61	0.00	1.61	0.00	1.27	0.13	0.00	1.40	0.00	25.00	0.00	0.	0.00
232	43.000	32.07	0.00	0.00	0.00	6.54	1.43	0.00	1.43	0.00	1.26	0.12	0.00	1.37	0.00	25.00	0.00	0.	0.00
233	42.750	32.06	0.00	0.00	0.00	6.82	1.27	0.00	1.27	0.00	1.24	0.11	0.00	1.35	0.00	25.00	0.00	0.	0.00
234	42.500	32.06	0.00	0.00	0.00	7.10	1.13	0.00	1.13	0.00	1.22	0.10	0.00	1.32	0.00	25.00	0.00	0.	0.00
235	42.250	32.06	0.00	0.00	0.00	7.37	1.01	0.00	1.01	0.00	1.21	0.09	0.00	1.30	0.00	25.00	0.00	0.	0.00
236	42.000	32.05	0.00	0.00	0.00	7.63	0.90	0.00	0.90	0.00	1.19	0.09	0.00	1.28	0.00	25.00	0.00	0.	0.00
237	41.750	32.05	0.00	0.00	0.00	7.88	0.81	0.00	0.81	0.00	1.17	0.08	0.00	1.26	0.00	25.00	0.00	0.	0.00
238	41.500	32.04	0.00	0.00	0.00	8.12	0.73	0.00	0.73	0.00	1.16	0.08	0.00	1.24	0.00	25.00	0.00	0.	0.00
239	41.250	32.04	0.00	0.00	0.00	8.35	0.66	0.00	0.66	0.00	1.14	0.08	0.00	1.22	0.00	25.00	0.00	0.	0.00
240	41.000	32.04	0.00	0.00	0.00	8.57	0.59	0.00	0.59	0.00	1.13	0.07	0.00	1.20	0.00	25.00	0.00	0.	0.00
241	40.750	32.03	0.00	0.00	0.00	8.78	0.54	0.00	0.54	0.00	1.11	0.07	0.00	1.18	0.00	25.00	0.00	0.	0.00
242	40.500	32.03	0.00	0.00	0.00	8.97	0.49	0.00	0.49	0.00	1.09	0.07	0.00	1.17	0.00	25.00	0.00	0.	0.00
243	40.250	32.02	0.00	0.00	0.00	9.16	0.45	0.00	0.45	0.00	1.08	0.07	0.00	1.15	0.00	25.00	0.00	0.	0.00
244	40.000	32.02	0.00	0.00	0.00	9.33	0.42	0.00	0.42	0.00	1.07	0.07	0.00	1.13	0.00	25.00	0.00	0.	0.00
245	39.750	32.02	0.00	0.00	0.00	9.49	0.38	0.00	0.38	0.00	1.05	0.07	0.00	1.12	0.00	25.00	0.00	0.	0.00
246	39.500	32.01	0.00	0.00	0.00	9.64	0.36	0.00	0.36	0.00	1.04	0.06	0.00	1.10	0.00	25.00	0.00	0.	0.00
247	39.250	32.01	0.00	0.00	0.00	9.78	0.33	0.00	0.33	0.00	1.02	0.06	0.00	1.09	0.00	25.00	0.00	0.	0.00
248	39.000	32.00	0.00	0.00	0.00	9.91	0.31	0.00	0.31	0.00	1.01	0.06	0.00	1.07	0.00	25.00	0.00	0.	0.00
249	38.750	32.00	0.00	0.00	0.00	10.01	0.30	0.00	0.30	0.00	1.00	0.06	0.00	1.06	0.00	25.00	0.00	0.	0.00

FINAL REPORT Bayou Black LA-QUAL TMDL for Gulf ICWW and Bayou Black

REACH NO. 6 Bayou Black

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 mg/L	NO3+2 µg/L	PHOS #/100mL	CHL A	COLI	NCM
250	UPR RCH	4.68300	32.00	0.00	0.00	0.00	10.01	0.30	0.00	0.30	0.00	1.00	0.06	0.00	0.00	25.00	0.00	0.00
EACH	INCR	0.00286	30.00	0.00	0.00	0.00	5.00	3.70	0.00		1.10	0.10	0.00	0.00	0.00	0.00		
260	WSTLD	0.00018	30.00	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	7.50	15.00	2.00	0.00	0.00	0.00	0.00

268	WSTLD	0.00005	30.00	0.00	0.00	0.00	5.00	69.00	0.00	69.00	0.00	5.00	10.00	2.00	0.00	0.00	0.00	0.00			
278	WSTLD	0.00187	30.00	0.00	0.00	0.00	5.00	56.90	0.00	56.90	0.00	4.12	8.24	2.00	0.00	0.00	0.00	0.00			

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

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	PCT EFF	ADVCTV VELO	TRAVEL TIME	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	PRISM	TIDAL VELO		TIDAL VELO	DISPRSN	MEAN
	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s		
250	38.75	38.50	4.68586	0.0	0.12960	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.130	
251	38.50	38.25	4.68872	0.0	0.12968	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.130	
252	38.25	38.00	4.69158	0.0	0.12975	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.130	
253	38.00	37.75	4.69443	0.0	0.12983	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.130	
254	37.75	37.50	4.69729	0.0	0.12991	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.130	
255	37.50	37.25	4.70015	0.0	0.12999	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.130	
256	37.25	37.00	4.70301	0.0	0.13007	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.130	
257	37.00	36.75	4.70586	0.0	0.13015	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.130	
258	36.75	36.50	4.70872	0.0	0.13023	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.130	
259	36.50	36.25	4.71158	0.0	0.13031	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.130	
260	36.25	36.00	4.71461	0.0	0.13039	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.130	
261	36.00	35.75	4.71747	0.0	0.13047	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.130	
262	35.75	35.50	4.72033	0.0	0.13055	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.131	
263	35.50	35.25	4.72319	0.0	0.13063	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.131	
264	35.25	35.00	4.72604	0.0	0.13071	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.131	
265	35.00	34.75	4.72890	0.0	0.13079	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.131	
266	34.75	34.50	4.73176	0.0	0.13087	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.131	
267	34.50	34.25	4.73461	0.0	0.13095	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.131	
268	34.25	34.00	4.73752	0.0	0.13103	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.131	
269	34.00	33.75	4.74038	0.0	0.13110	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.131	
270	33.75	33.50	4.74324	0.0	0.13118	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.131	
271	33.50	33.25	4.74609	0.0	0.13126	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.131	
272	33.25	33.00	4.74895	0.0	0.13134	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.131	
273	33.00	32.75	4.75181	0.0	0.13142	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.131	
274	32.75	32.50	4.75466	0.0	0.13150	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.131	
275	32.50	32.25	4.75752	0.0	0.13158	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.132	
276	32.25	32.00	4.76038	0.0	0.13166	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.132	
277	32.00	31.75	4.76324	0.0	0.13174	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.132	
278	31.75	31.50	4.76796	0.0	0.13187	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.132	
279	31.50	31.25	4.77082	0.0	0.13195	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.132	
280	31.25	31.00	4.77368	0.0	0.13203	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.132	
281	31.00	30.75	4.77654	0.0	0.13210	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.132	
282	30.75	30.50	4.77939	0.0	0.13218	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.132	
283	30.50	30.25	4.78225	0.0	0.13226	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.132	
284	30.25	30.00	4.78511	0.0	0.13234	0.02	1.16	31.17	9039.30	7792.50		36.16	0.00	0.000	0.000	0.132	
TOT						0.77			316375.50	272737.50							
AVG					0.1309		1.16	31.17				36.16					
CUM						14.80											

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	ABOD#1 DECAY	BOD#2 DECAY	BOD#2 SETT	ABOD#2 DECAY	SOD	SOD	SOD	BKGD DECAY	FULL SETT	CORR DECAY	ORGN SRCE	ORGN RATE	NH3 SRCE	NH3 PROD	DENIT PROD	PO4 DECAY	ALG DECAY	MAC SETT	COLI	NCM	NCM
		mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da			
250	38.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00			
251	38.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00			

252	38.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
253	37.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
254	37.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
255	37.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
256	37.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
257	36.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
258	36.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
259	36.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
260	36.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00
261	35.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
262	35.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
263	35.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
264	35.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
265	34.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
266	34.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
267	34.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
268	34.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
269	33.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
270	33.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00
271	33.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
272	33.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
273	32.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
274	32.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
275	32.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00
276	32.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
277	31.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00
278	31.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00
279	31.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00
280	31.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00
281	30.750	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00
282	30.500	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00
283	30.250	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00
284	30.000	7.30	0.75	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.45	0.00	0.00	0.00	2.26	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.60	0.15	0.00	0.00	0.00	0.00	0.70				0.02	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/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#1 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 µg/L	PHOS g/m³	CHL A	MACRO	COLI #/100mL	NCM
250	38.500	32.00	0.00	0.00	0.00	9.96	0.34	0.00	0.34	0.00	1.00	0.06	0.00	1.06	0.00	25.71	0.00	0.	0.00
251	38.250	32.00	0.00	0.00	0.00	9.91	0.38	0.00	0.38	0.00	1.00	0.06	0.00	1.06	0.00	26.43	0.00	0.	0.00
252	38.000	32.00	0.00	0.00	0.00	9.85	0.42	0.00	0.42	0.00	1.00	0.06	0.00	1.06	0.00	27.14	0.00	0.	0.00
253	37.750	32.00	0.00	0.00	0.00	9.80	0.46	0.00	0.46	0.00	1.00	0.06	0.00	1.06	0.00	27.86	0.00	0.	0.00
254	37.500	32.00	0.00	0.00	0.00	9.75	0.50	0.00	0.50	0.00	1.00	0.06	0.00	1.06	0.00	28.57	0.00	0.	0.00
255	37.250	32.00	0.00	0.00	0.00	9.71	0.55	0.00	0.55	0.00	1.00	0.06	0.00	1.06	0.00	29.29	0.00	0.	0.00
256	37.000	32.00	0.00	0.00	0.00	9.66	0.59	0.00	0.59	0.00	1.00	0.06	0.00	1.06	0.00	30.00	0.00	0.	0.00
257	36.750	32.00	0.00	0.00	0.00	9.61	0.63	0.00	0.63	0.00	1.00	0.06	0.00	1.07	0.00	30.71	0.00	0.	0.00
258	36.500	32.00	0.00	0.00	0.00	9.57	0.67	0.00	0.67	0.00	1.01	0.06	0.00	1.07	0.00	31.43	0.00	0.	0.00
259	36.250	32.00	0.00	0.00	0.00	9.53	0.71	0.00	0.71	0.00	1.01	0.06	0.00	1.07	0.00	32.14	0.00	0.	0.00
260	36.000	32.00	0.00	0.00	0.00	9.49	0.75	0.00	0.75	0.00	1.01	0.06	0.00	1.07	0.00	32.86	0.00	0.	0.00
261	35.750	32.00	0.00	0.00	0.00	9.44	0.79	0.00	0.79	0.00	1.01	0.06	0.00	1.07	0.00	33.57	0.00	0.	0.00

262	35.500	32.00	0.00	0.00	0.00	9.41	0.83	0.00	0.83	0.00	1.01	0.06	0.00	1.07	0.00	34.29	0.00	0. 0.00
263	35.250	32.00	0.00	0.00	0.00	9.37	0.87	0.00	0.87	0.00	1.01	0.06	0.00	1.07	0.00	35.00	0.00	0. 0.00
264	35.000	32.00	0.00	0.00	0.00	9.33	0.91	0.00	0.91	0.00	1.01	0.06	0.00	1.07	0.00	35.71	0.00	0. 0.00
265	34.750	32.00	0.00	0.00	0.00	9.29	0.94	0.00	0.94	0.00	1.01	0.06	0.00	1.07	0.00	36.43	0.00	0. 0.00
266	34.500	32.00	0.00	0.00	0.00	9.26	0.98	0.00	0.98	0.00	1.01	0.06	0.00	1.07	0.00	37.14	0.00	0. 0.00
267	34.250	32.00	0.00	0.00	0.00	9.23	1.02	0.00	1.02	0.00	1.01	0.06	0.00	1.07	0.00	37.86	0.00	0. 0.00
268	34.000	32.00	0.00	0.00	0.00	9.19	1.06	0.00	1.06	0.00	1.01	0.06	0.00	1.08	0.00	38.57	0.00	0. 0.00
269	33.750	32.00	0.00	0.00	0.00	9.16	1.09	0.00	1.09	0.00	1.02	0.06	0.00	1.08	0.00	39.29	0.00	0. 0.00
270	33.500	32.00	0.00	0.00	0.00	9.13	1.13	0.00	1.13	0.00	1.02	0.06	0.00	1.08	0.00	40.00	0.00	0. 0.00
271	33.250	32.00	0.00	0.00	0.00	9.10	1.17	0.00	1.17	0.00	1.02	0.06	0.00	1.08	0.00	40.71	0.00	0. 0.00
272	33.000	32.00	0.00	0.00	0.00	9.07	1.20	0.00	1.20	0.00	1.02	0.06	0.00	1.08	0.00	41.43	0.00	0. 0.00
273	32.750	32.00	0.00	0.00	0.00	9.05	1.24	0.00	1.24	0.00	1.02	0.06	0.00	1.08	0.00	42.14	0.00	0. 0.00
274	32.500	32.00	0.00	0.00	0.00	9.02	1.28	0.00	1.28	0.00	1.02	0.06	0.00	1.08	0.00	42.86	0.00	0. 0.00
275	32.250	32.00	0.00	0.00	0.00	8.99	1.31	0.00	1.31	0.00	1.02	0.06	0.00	1.08	0.00	43.57	0.00	0. 0.00
276	32.000	32.00	0.00	0.00	0.00	8.97	1.35	0.00	1.35	0.00	1.02	0.06	0.00	1.08	0.00	44.29	0.00	0. 0.00
277	31.750	32.00	0.00	0.00	0.00	8.95	1.38	0.00	1.38	0.00	1.02	0.06	0.00	1.08	0.00	45.00	0.00	0. 0.00
278	31.500	32.00	0.00	0.00	0.00	8.92	1.44	0.00	1.44	0.00	1.02	0.06	0.00	1.09	0.00	45.71	0.00	0. 0.00
279	31.250	32.00	0.00	0.00	0.00	8.90	1.47	0.00	1.47	0.00	1.03	0.06	0.00	1.09	0.00	46.43	0.00	0. 0.00
280	31.000	32.00	0.00	0.00	0.00	8.88	1.51	0.00	1.51	0.00	1.03	0.06	0.00	1.09	0.00	47.14	0.00	0. 0.00
281	30.750	32.00	0.00	0.00	0.00	8.86	1.54	0.00	1.54	0.00	1.03	0.06	0.00	1.09	0.00	47.86	0.00	0. 0.00
282	30.500	32.00	0.00	0.00	0.00	8.84	1.58	0.00	1.58	0.00	1.03	0.06	0.00	1.09	0.00	48.57	0.00	0. 0.00
283	30.250	32.00	0.00	0.00	0.00	8.82	1.61	0.00	1.61	0.00	1.03	0.06	0.00	1.09	0.00	49.29	0.00	0. 0.00
284	30.000	32.00	0.00	0.00	0.00	8.80	1.64	0.00	1.64	0.00	1.03	0.06	0.00	1.09	0.00	50.00	0.00	0. 0.00

FINAL REPORT Bayou Black LA-QUAL TMDL for Gulf ICWW and Bayou Black

REACH NO. 7 Bayou Black

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 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 µg/L	CHL A #/100mL	COLI	NCM
285	UPR RCH	4.78511	32.00	0.00	0.00	0.00	8.80	1.64	0.00	1.64	0.00	1.03	0.06	0.00	0.00	50.00	0.00	0.00
EACH	INCR	0.00143	30.00	0.00	0.00	0.00	5.00	3.70	0.00			1.10	0.10	0.00	0.00	0.00	0.00	
292	WSTLD	0.00240	30.00	0.00	0.00	0.00	5.00	52.70	0.00	52.70	0.00	3.82	7.63	2.00	0.00	0.00	0.00	0.00
312	WSTLD	0.00088	30.00	0.00	0.00	0.00	5.00	69.00	0.00	69.00	0.00	5.00	10.00	2.00	0.00	0.00	0.00	0.00
331	WSTLD	0.00023	30.00	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	7.50	15.00	2.00	0.00	0.00	0.00	0.00
339	WSTLD	0.00053	30.00	0.00	0.00	0.00	5.00	69.00	0.00	69.00	0.00	5.00	10.00	2.00	0.00	0.00	0.00	0.00
352	WSTLD	0.01770	30.00	0.00	0.00	0.00	5.00	57.50	0.00	57.50	0.00	4.17	20.00	2.00	0.00	0.00	0.00	0.00
369	WSTLD	0.00160	30.00	0.00	0.00	0.00	5.00	25.40	0.00	25.40	0.00	1.84	3.67	2.00	0.00	0.00	0.00	0.00
372	WSTLD	0.00002	30.00	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	7.50	15.00	2.00	0.00	0.00	0.00	0.00
373	WSTLD	0.24066	30.00	0.00	0.00	0.00	10.40	7.20	0.00	7.20	0.00	1.40	0.10	0.00	0.00	0.00	0.00	0.00
401	WSTLD	0.50019	30.00	0.00	0.00	0.00	5.00	9.40	0.00	9.40	0.00	1.63	0.14	0.00	0.00	0.00	0.00	0.00
402	WSTLD	0.00049	30.00	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	7.50	15.00	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	TIDAL VELO m²/s	DISPRSN m/s	MEAN
285	30.00	29.75	4.78654	0.0	0.13238	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.132	
286	29.75	29.50	4.78797	0.0	0.13242	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.132	
287	29.50	29.25	4.78941	0.0	0.13246	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.132	
288	29.25	29.00	4.79084	0.0	0.13250	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133	
289	29.00	28.75	4.79227	0.0	0.13254	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133	
290	28.75	28.50	4.79371	0.0	0.13258	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133	

291	28.50	28.25	4.79514	0.0	0.13262	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
292	28.25	28.00	4.79897	0.1	0.13273	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
293	28.00	27.75	4.80041	0.1	0.13276	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
294	27.75	27.50	4.80184	0.1	0.13280	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
295	27.50	27.25	4.80327	0.1	0.13284	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
296	27.25	27.00	4.80471	0.1	0.13288	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
297	27.00	26.75	4.80614	0.1	0.13292	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
298	26.75	26.50	4.80757	0.1	0.13296	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
299	26.50	26.25	4.80901	0.1	0.13300	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
300	26.25	26.00	4.81044	0.1	0.13304	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
301	26.00	25.75	4.81187	0.1	0.13308	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
302	25.75	25.50	4.81331	0.1	0.13312	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
303	25.50	25.25	4.81474	0.1	0.13316	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
304	25.25	25.00	4.81617	0.1	0.13320	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
305	25.00	24.75	4.81761	0.1	0.13324	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
306	24.75	24.50	4.81904	0.1	0.13328	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
307	24.50	24.25	4.82047	0.1	0.13332	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
308	24.25	24.00	4.82191	0.1	0.13336	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
309	24.00	23.75	4.82334	0.1	0.13340	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
310	23.75	23.50	4.82477	0.1	0.13344	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
311	23.50	23.25	4.82621	0.1	0.13348	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.133
312	23.25	23.00	4.82852	0.1	0.13354	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
313	23.00	22.75	4.82995	0.1	0.13358	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
314	22.75	22.50	4.83139	0.1	0.13362	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
315	22.50	22.25	4.83282	0.1	0.13366	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
316	22.25	22.00	4.83425	0.1	0.13370	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
317	22.00	21.75	4.83569	0.1	0.13374	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
318	21.75	21.50	4.83712	0.1	0.13378	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
319	21.50	21.25	4.83855	0.1	0.13382	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
320	21.25	21.00	4.83999	0.1	0.13386	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
321	21.00	20.75	4.84142	0.1	0.13390	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
322	20.75	20.50	4.84285	0.1	0.13394	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
323	20.50	20.25	4.84429	0.1	0.13398	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
324	20.25	20.00	4.84572	0.1	0.13402	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
325	20.00	19.75	4.84716	0.1	0.13406	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
326	19.75	19.50	4.84859	0.1	0.13410	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
327	19.50	19.25	4.85002	0.1	0.13414	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
328	19.25	19.00	4.85146	0.1	0.13418	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
329	19.00	18.75	4.85289	0.1	0.13422	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
330	18.75	18.50	4.85432	0.1	0.13426	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
331	18.50	18.25	4.85599	0.1	0.13430	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
332	18.25	18.00	4.85742	0.1	0.13434	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
333	18.00	17.75	4.85885	0.1	0.13438	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
334	17.75	17.50	4.86029	0.1	0.13442	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
335	17.50	17.25	4.86172	0.1	0.13446	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.134
336	17.25	17.00	4.86315	0.1	0.13450	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
337	17.00	16.75	4.86459	0.1	0.13454	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
338	16.75	16.50	4.86602	0.1	0.13458	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
339	16.50	16.25	4.86798	0.1	0.13463	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
340	16.25	16.00	4.86942	0.1	0.13467	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135

341	16.00	15.75	4.87085	0.1	0.13471	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
342	15.75	15.50	4.87228	0.1	0.13475	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
343	15.50	15.25	4.87372	0.1	0.13479	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
344	15.25	15.00	4.87515	0.1	0.13483	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
345	15.00	14.75	4.87658	0.1	0.13487	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
346	14.75	14.50	4.87802	0.1	0.13491	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
347	14.50	14.25	4.87945	0.1	0.13495	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
348	14.25	14.00	4.88088	0.1	0.13499	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
349	14.00	13.75	4.88232	0.1	0.13503	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
350	13.75	13.50	4.88375	0.1	0.13507	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
351	13.50	13.25	4.88518	0.1	0.13511	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.135
352	13.25	13.00	4.90432	0.5	0.13564	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
353	13.00	12.75	4.90575	0.5	0.13568	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
354	12.75	12.50	4.90718	0.5	0.13572	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
355	12.50	12.25	4.90862	0.5	0.13576	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
356	12.25	12.00	4.91005	0.5	0.13580	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
357	12.00	11.75	4.91148	0.5	0.13584	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
358	11.75	11.50	4.91292	0.5	0.13588	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
359	11.50	11.25	4.91435	0.5	0.13592	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
360	11.25	11.00	4.91578	0.5	0.13596	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
361	11.00	10.75	4.91722	0.5	0.13600	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
362	10.75	10.50	4.91865	0.5	0.13604	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
363	10.50	10.25	4.92008	0.5	0.13607	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
364	10.25	10.00	4.92152	0.5	0.13611	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
365	10.00	9.75	4.92295	0.5	0.13615	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
366	9.75	9.50	4.92438	0.5	0.13619	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
367	9.50	9.25	4.92582	0.5	0.13623	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
368	9.25	9.00	4.92725	0.5	0.13627	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
369	9.00	8.75	4.93028	0.5	0.13636	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
370	8.75	8.50	4.93172	0.5	0.13640	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
371	8.50	8.25	4.93315	0.5	0.13644	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
372	8.25	8.00	4.93460	0.5	0.13648	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.136
373	8.00	7.75	5.17670	5.1	0.14317	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.143
374	7.75	7.50	5.17813	5.1	0.14321	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.143
375	7.50	7.25	5.17956	5.1	0.14325	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.143
376	7.25	7.00	5.18100	5.1	0.14329	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.143
377	7.00	6.75	5.18243	5.1	0.14333	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.143
378	6.75	6.50	5.18386	5.1	0.14337	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.143
379	6.50	6.25	5.18530	5.1	0.14341	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.143
380	6.25	6.00	5.18673	5.1	0.14345	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.143
381	6.00	5.75	5.18816	5.1	0.14349	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.143
382	5.75	5.50	5.18960	5.1	0.14353	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144
383	5.50	5.25	5.19103	5.1	0.14357	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144
384	5.25	5.00	5.19246	5.1	0.14361	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144
385	5.00	4.75	5.19390	5.1	0.14365	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144
386	4.75	4.50	5.19533	5.1	0.14369	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144
387	4.50	4.25	5.19676	5.1	0.14373	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144
388	4.25	4.00	5.19820	5.1	0.14377	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144
389	4.00	3.75	5.19963	5.1	0.14381	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144
390	3.75	3.50	5.20106	5.1	0.14385	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144

391	3.50	3.25	5.20250	5.1	0.14389	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144	
392	3.25	3.00	5.20393	5.1	0.14393	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144	
393	3.00	2.75	5.20536	5.1	0.14396	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144	
394	2.75	2.50	5.20680	5.1	0.14400	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144	
395	2.50	2.25	5.20823	5.1	0.14404	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144	
396	2.25	2.00	5.20966	5.1	0.14408	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144	
397	2.00	1.75	5.21110	5.1	0.14412	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144	
398	1.75	1.50	5.21253	5.1	0.14416	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144	
399	1.50	1.25	5.21396	5.1	0.14420	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144	
400	1.25	1.00	5.21540	5.1	0.14424	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.144	
401	1.00	0.75	5.71702	13.4	0.15812	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.158	
402	0.75	0.50	5.71894	13.4	0.15817	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.158	
403	0.50	0.25	5.72038	13.4	0.15821	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.158	
404	0.25	0.00	5.72181	13.4	0.15825	0.02	1.16	31.17	9039.30	7792.50	36.16	0.00	0.000	0.000	0.158	
TOT					2.53			1084716.88	935100.00							
AVG				0.1371		1.16	31.17				36.16					
CUM					17.34											

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM	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	1/da	1/da			
285	29.750	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	
286	29.500	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.00	
287	29.250	7.30	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.00	
288	29.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.22	0.00	0.00	0.00	0.00	
289	28.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.21	0.00	0.00	0.00	0.00	
290	28.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00	
291	28.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.00	
292	28.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.00	
293	27.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00	
294	27.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00	
295	27.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00	
296	27.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.14	0.00	0.00	0.00	0.00	
297	26.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00	
298	26.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.12	0.00	0.00	0.00	0.00	
299	26.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.00	
300	26.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00	
301	25.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00	
302	25.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.00	
303	25.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.77	2.77	2.77	0.03	0.00	0.45	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.00	
304	25.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.06	0.00	0.00	0.00	0.00	
305	24.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.00	
306	24.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.04	0.00	0.00	0.00	0.00	
307	24.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00	
308	24.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00	
309	23.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.01	0.00	0.00	0.00	0.00	
310	23.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	
311	23.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.99	0.00	0.00	0.00	0.00	
312	23.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.98	0.00	0.00	0.00	0.00	
313	22.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.00	

314	22.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.96	0.00	0.00	0.00	0.00
315	22.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00
316	22.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.94	0.00	0.00	0.00	0.00
317	21.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.93	0.00	0.00	0.00	0.00
318	21.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.45	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00
319	21.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.91	0.00	0.00	0.00	0.00
320	21.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00
321	20.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.89	0.00	0.00	0.00	0.00
322	20.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00
323	20.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00
324	20.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.86	0.00	0.00	0.00	0.00
325	19.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
326	19.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00
327	19.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.83	0.00	0.00	0.00	0.00
328	19.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00
329	18.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.00
330	18.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00
331	18.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.79	0.00	0.00	0.00	0.00
332	18.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.78	0.00	0.00	0.00	0.00
333	17.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00
334	17.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.76	0.00	0.00	0.00	0.00
335	17.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00
336	17.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.74	0.00	0.00	0.00	0.00
337	16.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00
338	16.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.72	0.00	0.00	0.00	0.00
339	16.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
340	16.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
341	15.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
342	15.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00
343	15.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.68	0.00	0.00	0.00	0.00
344	15.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.67	0.00	0.00	0.00	0.00
345	14.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.66	0.00	0.00	0.00	0.00
346	14.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.00
347	14.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00
348	14.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.00
349	13.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.44	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.00
350	13.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.61	0.00	0.00	0.00	0.00
351	13.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00
352	13.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.00
353	12.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.00
354	12.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.57	0.00	0.00	0.00	0.00
355	12.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
356	12.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
357	11.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.54	0.00	0.00	0.00	0.00
358	11.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.53	0.00	0.00	0.00	0.00
359	11.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00
360	11.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.00
361	10.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00
362	10.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00
363	10.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00

364	10.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00
365	9.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00
366	9.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00
367	9.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00
368	9.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.00
369	8.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
370	8.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00
371	8.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00
372	8.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	0.03	0.00	0.43	0.00	0.00	0.00	1.39	0.00	0.00	0.00	0.00
373	7.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
374	7.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.00
375	7.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00
376	7.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00
377	6.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.00
378	6.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00
379	6.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.32	0.00	0.00	0.00	0.00
380	6.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.31	0.00	0.00	0.00	0.00
381	5.750	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00
382	5.500	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00
383	5.250	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.43	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
384	5.000	7.31	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00
385	4.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.26	0.00	0.00	0.00	0.00
386	4.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00
387	4.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.24	0.00	0.00	0.00	0.00
388	4.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.00
389	3.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00
390	3.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.21	0.00	0.00	0.00	0.00
391	3.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
392	3.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
393	2.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00
394	2.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
395	2.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00
396	2.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00
397	1.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00
398	1.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
399	1.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00
400	1.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00
401	0.750	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00
402	0.500	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00
403	0.250	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.00
404	0.000	7.32	0.75	0.29	0.00	0.00	0.00	0.00	0.00	2.75	2.75	2.75	0.03	0.00	0.42	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00
AVG	20 DEG C RATE		0.60	0.17	0.00	0.00	0.00	0.00	0.00	1.30			0.02	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
				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	
285	29.750	32.00	0.00 0.00	0.00	8.76	1.65	0.00	1.65	0.00	1.03	0.06	0.00	1.09	0.00	49.78	0.00	0.	0.00	
286	29.500	32.00	0.00 0.00	0.00	8.72	1.67	0.00	1.67	0.00	1.03	0.06	0.00	1.09	0.00	49.57	0.00	0.	0.00	
287	29.250	32.00	0.00 0.00	0.00	8.68	1.68	0.00	1.68	0.00	1.03	0.06	0.00	1.09	0.00	49.35	0.00	0.	0.00	
288	29.000	32.00	0.00 0.00	0.00	8.64	1.69	0.00	1.69	0.00	1.03	0.06	0.00	1.09	0.00	49.13	0.00	0.	0.00	

289	28.750	32.00	0.00	0.00	0.00	8.60	1.70	0.00	1.70	0.00	1.03	0.06	0.00	1.09	0.00	48.92	0.00	0.	0.00
290	28.500	32.00	0.00	0.00	0.00	8.56	1.71	0.00	1.71	0.00	1.03	0.06	0.00	1.09	0.00	48.70	0.00	0.	0.00
291	28.250	31.99	0.00	0.00	0.00	8.52	1.72	0.00	1.72	0.00	1.03	0.06	0.00	1.09	0.00	48.48	0.00	0.	0.00
292	28.000	31.99	0.00	0.00	0.00	8.48	1.76	0.00	1.76	0.00	1.03	0.07	0.00	1.10	0.00	48.27	0.00	0.	0.00
293	27.750	31.99	0.00	0.00	0.00	8.44	1.77	0.00	1.77	0.00	1.03	0.07	0.00	1.10	0.00	48.05	0.00	0.	0.00
294	27.500	31.99	0.00	0.00	0.00	8.40	1.78	0.00	1.78	0.00	1.03	0.07	0.00	1.10	0.00	47.83	0.00	0.	0.00
295	27.250	31.99	0.00	0.00	0.00	8.37	1.79	0.00	1.79	0.00	1.03	0.07	0.00	1.10	0.00	47.62	0.00	0.	0.00
296	27.000	31.99	0.00	0.00	0.00	8.33	1.80	0.00	1.80	0.00	1.03	0.07	0.00	1.10	0.00	47.40	0.00	0.	0.00
297	26.750	31.99	0.00	0.00	0.00	8.29	1.81	0.00	1.81	0.00	1.03	0.07	0.00	1.10	0.00	47.18	0.00	0.	0.00
298	26.500	31.99	0.00	0.00	0.00	8.25	1.82	0.00	1.82	0.00	1.03	0.07	0.00	1.10	0.00	46.97	0.00	0.	0.00
299	26.250	31.99	0.00	0.00	0.00	8.22	1.83	0.00	1.83	0.00	1.03	0.07	0.00	1.10	0.00	46.75	0.00	0.	0.00
300	26.000	31.99	0.00	0.00	0.00	8.18	1.84	0.00	1.84	0.00	1.03	0.07	0.00	1.10	0.00	46.53	0.00	0.	0.00
301	25.750	31.99	0.00	0.00	0.00	8.15	1.85	0.00	1.85	0.00	1.03	0.07	0.00	1.10	0.00	46.32	0.00	0.	0.00
302	25.500	31.99	0.00	0.00	0.00	8.11	1.86	0.00	1.86	0.00	1.03	0.07	0.00	1.10	0.00	46.10	0.00	0.	0.00
303	25.250	31.98	0.00	0.00	0.00	8.08	1.87	0.00	1.87	0.00	1.03	0.07	0.00	1.10	0.00	45.88	0.00	0.	0.00
304	25.000	31.98	0.00	0.00	0.00	8.04	1.87	0.00	1.87	0.00	1.03	0.07	0.00	1.09	0.00	45.67	0.00	0.	0.00
305	24.750	31.98	0.00	0.00	0.00	8.01	1.88	0.00	1.88	0.00	1.03	0.07	0.00	1.09	0.00	45.45	0.00	0.	0.00
306	24.500	31.98	0.00	0.00	0.00	7.97	1.89	0.00	1.89	0.00	1.03	0.07	0.00	1.09	0.00	45.23	0.00	0.	0.00
307	24.250	31.98	0.00	0.00	0.00	7.94	1.90	0.00	1.90	0.00	1.03	0.07	0.00	1.09	0.00	45.02	0.00	0.	0.00
308	24.000	31.98	0.00	0.00	0.00	7.91	1.91	0.00	1.91	0.00	1.03	0.07	0.00	1.09	0.00	44.80	0.00	0.	0.00
309	23.750	31.98	0.00	0.00	0.00	7.87	1.92	0.00	1.92	0.00	1.03	0.07	0.00	1.09	0.00	44.58	0.00	0.	0.00
310	23.500	31.98	0.00	0.00	0.00	7.84	1.93	0.00	1.93	0.00	1.03	0.07	0.00	1.09	0.00	44.37	0.00	0.	0.00
311	23.250	31.98	0.00	0.00	0.00	7.81	1.94	0.00	1.94	0.00	1.03	0.07	0.00	1.09	0.00	44.15	0.00	0.	0.00
312	23.000	31.98	0.00	0.00	0.00	7.77	1.96	0.00	1.96	0.00	1.03	0.07	0.00	1.10	0.00	43.93	0.00	0.	0.00
313	22.750	31.98	0.00	0.00	0.00	7.74	1.97	0.00	1.97	0.00	1.03	0.07	0.00	1.10	0.00	43.72	0.00	0.	0.00
314	22.500	31.98	0.00	0.00	0.00	7.71	1.98	0.00	1.98	0.00	1.03	0.07	0.00	1.10	0.00	43.50	0.00	0.	0.00
315	22.250	31.97	0.00	0.00	0.00	7.68	1.99	0.00	1.99	0.00	1.03	0.07	0.00	1.10	0.00	43.28	0.00	0.	0.00
316	22.000	31.97	0.00	0.00	0.00	7.65	2.00	0.00	2.00	0.00	1.03	0.07	0.00	1.09	0.00	43.07	0.00	0.	0.00
317	21.750	31.97	0.00	0.00	0.00	7.61	2.01	0.00	2.01	0.00	1.03	0.07	0.00	1.09	0.00	42.85	0.00	0.	0.00
318	21.500	31.97	0.00	0.00	0.00	7.58	2.01	0.00	2.01	0.00	1.03	0.07	0.00	1.09	0.00	42.63	0.00	0.	0.00
319	21.250	31.97	0.00	0.00	0.00	7.55	2.02	0.00	2.02	0.00	1.03	0.07	0.00	1.09	0.00	42.42	0.00	0.	0.00
320	21.000	31.97	0.00	0.00	0.00	7.52	2.03	0.00	2.03	0.00	1.03	0.07	0.00	1.09	0.00	42.20	0.00	0.	0.00
321	20.750	31.97	0.00	0.00	0.00	7.49	2.04	0.00	2.04	0.00	1.03	0.07	0.00	1.09	0.00	41.98	0.00	0.	0.00
322	20.500	31.97	0.00	0.00	0.00	7.46	2.05	0.00	2.05	0.00	1.03	0.07	0.00	1.09	0.00	41.77	0.00	0.	0.00
323	20.250	31.97	0.00	0.00	0.00	7.43	2.06	0.00	2.06	0.00	1.03	0.07	0.00	1.09	0.00	41.55	0.00	0.	0.00
324	20.000	31.97	0.00	0.00	0.00	7.40	2.06	0.00	2.06	0.00	1.03	0.07	0.00	1.09	0.00	41.33	0.00	0.	0.00
325	19.750	31.97	0.00	0.00	0.00	7.38	2.07	0.00	2.07	0.00	1.03	0.07	0.00	1.09	0.00	41.12	0.00	0.	0.00
326	19.500	31.97	0.00	0.00	0.00	7.35	2.08	0.00	2.08	0.00	1.03	0.07	0.00	1.09	0.00	40.90	0.00	0.	0.00
327	19.250	31.96	0.00	0.00	0.00	7.32	2.09	0.00	2.09	0.00	1.03	0.07	0.00	1.09	0.00	40.68	0.00	0.	0.00
328	19.000	31.96	0.00	0.00	0.00	7.29	2.10	0.00	2.10	0.00	1.03	0.07	0.00	1.09	0.00	40.47	0.00	0.	0.00
329	18.750	31.96	0.00	0.00	0.00	7.26	2.10	0.00	2.10	0.00	1.03	0.07	0.00	1.09	0.00	40.25	0.00	0.	0.00
330	18.500	31.96	0.00	0.00	0.00	7.23	2.11	0.00	2.11	0.00	1.03	0.07	0.00	1.09	0.00	40.03	0.00	0.	0.00
331	18.250	31.96	0.00	0.00	0.00	7.20	2.13	0.00	2.13	0.00	1.03	0.07	0.00	1.09	0.00	39.82	0.00	0.	0.00
332	18.000	31.96	0.00	0.00	0.00	7.18	2.13	0.00	2.13	0.00	1.03	0.07	0.00	1.09	0.00	39.60	0.00	0.	0.00
333	17.750	31.96	0.00	0.00	0.00	7.15	2.14	0.00	2.14	0.00	1.03	0.07	0.00	1.09	0.00	39.38	0.00	0.	0.00
334	17.500	31.96	0.00	0.00	0.00	7.12	2.15	0.00	2.15	0.00	1.03	0.07	0.00	1.09	0.00	39.17	0.00	0.	0.00
335	17.250	31.96	0.00	0.00	0.00	7.10	2.16	0.00	2.16	0.00	1.02	0.07	0.00	1.09	0.00	38.95	0.00	0.	0.00
336	17.000	31.96	0.00	0.00	0.00	7.07	2.16	0.00	2.16	0.00	1.02	0.07	0.00	1.09	0.00	38.73	0.00	0.	0.00
337	16.750	31.96	0.00	0.00	0.00	7.04	2.17	0.00	2.17	0.00	1.02	0.07	0.00	1.09	0.00	38.52	0.00	0.	0.00
338	16.500	31.95	0.00	0.00	0.00	7.02	2.18	0.00	2.18	0.00	1.02	0.07	0.00	1.09	0.00	38.30	0.00	0.	0.00

339	16.250	31.95	0.00	0.00	0.00	6.99	2.19	0.00	2.19	0.00	1.02	0.07	0.00	1.09	0.00	38.08	0.00	0.	0.00
340	16.000	31.95	0.00	0.00	0.00	6.96	2.20	0.00	2.20	0.00	1.02	0.07	0.00	1.09	0.00	37.87	0.00	0.	0.00
341	15.750	31.95	0.00	0.00	0.00	6.94	2.21	0.00	2.21	0.00	1.02	0.07	0.00	1.09	0.00	37.65	0.00	0.	0.00
342	15.500	31.95	0.00	0.00	0.00	6.91	2.21	0.00	2.21	0.00	1.02	0.07	0.00	1.09	0.00	37.43	0.00	0.	0.00
343	15.250	31.95	0.00	0.00	0.00	6.89	2.22	0.00	2.22	0.00	1.02	0.07	0.00	1.09	0.00	37.22	0.00	0.	0.00
344	15.000	31.95	0.00	0.00	0.00	6.86	2.23	0.00	2.23	0.00	1.02	0.07	0.00	1.09	0.00	37.00	0.00	0.	0.00
345	14.750	31.95	0.00	0.00	0.00	6.83	2.24	0.00	2.24	0.00	1.02	0.07	0.00	1.09	0.00	36.78	0.00	0.	0.00
346	14.500	31.95	0.00	0.00	0.00	6.81	2.24	0.00	2.24	0.00	1.02	0.07	0.00	1.09	0.00	36.57	0.00	0.	0.00
347	14.250	31.95	0.00	0.00	0.00	6.79	2.25	0.00	2.25	0.00	1.02	0.07	0.00	1.09	0.00	36.35	0.00	0.	0.00
348	14.000	31.95	0.00	0.00	0.00	6.76	2.26	0.00	2.26	0.00	1.02	0.07	0.00	1.09	0.00	36.13	0.00	0.	0.00
349	13.750	31.95	0.00	0.00	0.00	6.74	2.26	0.00	2.26	0.00	1.02	0.07	0.00	1.09	0.00	35.92	0.00	0.	0.00
350	13.500	31.94	0.00	0.00	0.00	6.71	2.27	0.00	2.27	0.00	1.02	0.07	0.00	1.09	0.00	35.70	0.00	0.	0.00
351	13.250	31.94	0.00	0.00	0.00	6.69	2.28	0.00	2.28	0.00	1.02	0.07	0.00	1.09	0.00	35.48	0.00	0.	0.00
352	13.000	31.94	0.00	0.00	0.00	6.65	2.48	0.00	2.48	0.00	1.03	0.14	0.00	1.17	0.00	35.27	0.00	0.	0.00
353	12.750	31.94	0.00	0.00	0.00	6.63	2.49	0.00	2.49	0.00	1.03	0.14	0.00	1.17	0.00	35.05	0.00	0.	0.00
354	12.500	31.94	0.00	0.00	0.00	6.60	2.49	0.00	2.49	0.00	1.03	0.14	0.00	1.17	0.00	34.83	0.00	0.	0.00
355	12.250	31.94	0.00	0.00	0.00	6.57	2.50	0.00	2.50	0.00	1.03	0.14	0.00	1.17	0.00	34.62	0.00	0.	0.00
356	12.000	31.94	0.00	0.00	0.00	6.54	2.50	0.00	2.50	0.00	1.03	0.14	0.00	1.17	0.00	34.40	0.00	0.	0.00
357	11.750	31.94	0.00	0.00	0.00	6.52	2.51	0.00	2.51	0.00	1.03	0.13	0.00	1.17	0.00	34.18	0.00	0.	0.00
358	11.500	31.94	0.00	0.00	0.00	6.49	2.51	0.00	2.51	0.00	1.03	0.13	0.00	1.17	0.00	33.97	0.00	0.	0.00
359	11.250	31.94	0.00	0.00	0.00	6.46	2.52	0.00	2.52	0.00	1.03	0.13	0.00	1.17	0.00	33.75	0.00	0.	0.00
360	11.000	31.94	0.00	0.00	0.00	6.44	2.52	0.00	2.52	0.00	1.03	0.13	0.00	1.17	0.00	33.53	0.00	0.	0.00
361	10.750	31.94	0.00	0.00	0.00	6.41	2.53	0.00	2.53	0.00	1.03	0.13	0.00	1.17	0.00	33.32	0.00	0.	0.00
362	10.500	31.93	0.00	0.00	0.00	6.39	2.53	0.00	2.53	0.00	1.03	0.13	0.00	1.16	0.00	33.10	0.00	0.	0.00
363	10.250	31.93	0.00	0.00	0.00	6.36	2.54	0.00	2.54	0.00	1.03	0.13	0.00	1.16	0.00	32.88	0.00	0.	0.00
364	10.000	31.93	0.00	0.00	0.00	6.34	2.54	0.00	2.54	0.00	1.03	0.13	0.00	1.16	0.00	32.67	0.00	0.	0.00
365	9.750	31.93	0.00	0.00	0.00	6.31	2.55	0.00	2.55	0.00	1.03	0.13	0.00	1.16	0.00	32.45	0.00	0.	0.00
366	9.500	31.93	0.00	0.00	0.00	6.29	2.55	0.00	2.55	0.00	1.03	0.13	0.00	1.16	0.00	32.23	0.00	0.	0.00
367	9.250	31.93	0.00	0.00	0.00	6.26	2.56	0.00	2.56	0.00	1.03	0.13	0.00	1.16	0.00	32.02	0.00	0.	0.00
368	9.000	31.93	0.00	0.00	0.00	6.24	2.56	0.00	2.56	0.00	1.03	0.13	0.00	1.16	0.00	31.80	0.00	0.	0.00
369	8.750	31.93	0.00	0.00	0.00	6.21	2.58	0.00	2.58	0.00	1.03	0.13	0.00	1.16	0.00	31.58	0.00	0.	0.00
370	8.500	31.93	0.00	0.00	0.00	6.19	2.58	0.00	2.58	0.00	1.03	0.13	0.00	1.16	0.00	31.37	0.00	0.	0.00
371	8.250	31.93	0.00	0.00	0.00	6.17	2.59	0.00	2.59	0.00	1.03	0.13	0.00	1.16	0.00	31.15	0.00	0.	0.00
372	8.000	31.93	0.00	0.00	0.00	6.14	2.59	0.00	2.59	0.00	1.03	0.13	0.00	1.16	0.00	30.93	0.00	0.	0.00
373	7.750	31.93	0.00	0.00	0.00	6.31	2.81	0.00	2.81	0.00	1.05	0.12	0.00	1.17	0.00	30.72	0.00	0.	0.00
374	7.500	31.92	0.00	0.00	0.00	6.29	2.81	0.00	2.81	0.00	1.05	0.12	0.00	1.17	0.00	30.50	0.00	0.	0.00
375	7.250	31.92	0.00	0.00	0.00	6.26	2.82	0.00	2.82	0.00	1.05	0.12	0.00	1.17	0.00	30.28	0.00	0.	0.00
376	7.000	31.92	0.00	0.00	0.00	6.23	2.82	0.00	2.82	0.00	1.05	0.12	0.00	1.17	0.00	30.07	0.00	0.	0.00
377	6.750	31.92	0.00	0.00	0.00	6.21	2.82	0.00	2.82	0.00	1.05	0.12	0.00	1.17	0.00	29.85	0.00	0.	0.00
378	6.500	31.92	0.00	0.00	0.00	6.18	2.82	0.00	2.82	0.00	1.05	0.12	0.00	1.17	0.00	29.63	0.00	0.	0.00
379	6.250	31.92	0.00	0.00	0.00	6.16	2.83	0.00	2.83	0.00	1.05	0.12	0.00	1.17	0.00	29.42	0.00	0.	0.00
380	6.000	31.92	0.00	0.00	0.00	6.13	2.83	0.00	2.83	0.00	1.05	0.12	0.00	1.17	0.00	29.20	0.00	0.	0.00
381	5.750	31.92	0.00	0.00	0.00	6.11	2.83	0.00	2.83	0.00	1.05	0.12	0.00	1.17	0.00	28.98	0.00	0.	0.00
382	5.500	31.92	0.00	0.00	0.00	6.08	2.84	0.00	2.84	0.00	1.05	0.12	0.00	1.17	0.00	28.77	0.00	0.	0.00
383	5.250	31.92	0.00	0.00	0.00	6.06	2.84	0.00	2.84	0.00	1.05	0.12	0.00	1.17	0.00	28.55	0.00	0.	0.00
384	5.000	31.92	0.00	0.00	0.00	6.03	2.84	0.00	2.84	0.00	1.05	0.12	0.00	1.17	0.00	28.33	0.00	0.	0.00
385	4.750	31.92	0.00	0.00	0.00	6.01	2.84	0.00	2.84	0.00	1.05	0.12	0.00	1.17	0.00	28.12	0.00	0.	0.00
386	4.500	31.91	0.00	0.00	0.00	5.99	2.85	0.00	2.85	0.00	1.05	0.12	0.00	1.16	0.00	27.90	0.00	0.	0.00
387	4.250	31.91	0.00	0.00	0.00	5.96	2.85	0.00	2.85	0.00	1.05	0.12	0.00	1.16	0.00	27.68	0.00	0.	0.00
388	4.000	31.91	0.00	0.00	0.00	5.94	2.85	0.00	2.85	0.00	1.05	0.12	0.00	1.16	0.00	27.47	0.00	0.	0.00

389	3.750	31.91	0.00	0.00	0.00	5.92	2.86	0.00	2.86	0.00	1.05	0.12	0.00	1.16	0.00	27.25	0.00	0.	0.00
390	3.500	31.91	0.00	0.00	0.00	5.89	2.86	0.00	2.86	0.00	1.05	0.12	0.00	1.16	0.00	27.03	0.00	0.	0.00
391	3.250	31.91	0.00	0.00	0.00	5.87	2.86	0.00	2.86	0.00	1.05	0.12	0.00	1.16	0.00	26.82	0.00	0.	0.00
392	3.000	31.91	0.00	0.00	0.00	5.85	2.86	0.00	2.86	0.00	1.05	0.12	0.00	1.16	0.00	26.60	0.00	0.	0.00
393	2.750	31.91	0.00	0.00	0.00	5.82	2.87	0.00	2.87	0.00	1.05	0.11	0.00	1.16	0.00	26.38	0.00	0.	0.00
394	2.500	31.91	0.00	0.00	0.00	5.80	2.87	0.00	2.87	0.00	1.05	0.11	0.00	1.16	0.00	26.17	0.00	0.	0.00
395	2.250	31.91	0.00	0.00	0.00	5.78	2.87	0.00	2.87	0.00	1.05	0.11	0.00	1.16	0.00	25.95	0.00	0.	0.00
396	2.000	31.91	0.00	0.00	0.00	5.76	2.88	0.00	2.88	0.00	1.05	0.11	0.00	1.16	0.00	25.73	0.00	0.	0.00
397	1.750	31.91	0.00	0.00	0.00	5.73	2.88	0.00	2.88	0.00	1.05	0.11	0.00	1.16	0.00	25.52	0.00	0.	0.00
398	1.500	31.90	0.00	0.00	0.00	5.71	2.88	0.00	2.88	0.00	1.04	0.11	0.00	1.16	0.00	25.30	0.00	0.	0.00
399	1.250	31.90	0.00	0.00	0.00	5.69	2.88	0.00	2.88	0.00	1.04	0.11	0.00	1.16	0.00	25.08	0.00	0.	0.00
400	1.000	31.90	0.00	0.00	0.00	5.67	2.89	0.00	2.89	0.00	1.04	0.11	0.00	1.16	0.00	24.87	0.00	0.	0.00
401	0.750	31.90	0.00	0.00	0.00	5.59	3.46	0.00	3.46	0.00	1.10	0.11	0.00	1.21	0.00	24.65	0.00	0.	0.00
402	0.500	31.90	0.00	0.00	0.00	5.57	3.46	0.00	3.46	0.00	1.10	0.11	0.00	1.21	0.00	24.43	0.00	0.	0.00
403	0.250	31.90	0.00	0.00	0.00	5.54	3.46	0.00	3.46	0.00	1.10	0.11	0.00	1.21	0.00	24.22	0.00	0.	0.00
404	0.000	31.90	0.00	0.00	0.00	5.52	3.46	0.00	3.46	0.00	1.10	0.11	0.00	1.21	0.00	24.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL TMDL for Gulf ICWW and Bayou Black

Bayou Black

TRAVEL TIME = 17.34 DAYS
MAXIMUM EFFLUENT = 13.41 PERCENT
FLOW = 4.58700 TO 5.72181 m³/s
DISPERSION = 0.0000 TO 0.2000 m²/s
VELOCITY = 0.00510 TO 0.15825 m/s
DEPTH = 1.16 TO 4.57 m
WIDTH = 31.17 TO 196.71 m
BOD DECAY = 0.26 TO 0.29 per day
NH3 DECAY = 0.42 TO 0.45 per day
SOD = 0.85 TO 2.77 g/m²/d
NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 0.19 TO 0.75 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.03 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day
TEMPERATURE = 31.90 TO 32.10 deg C
DISSOLVED OXYGEN = 5.03 TO 10.01 mg/L

LA-QUAL TMDL for Gulf ICWW and Bayou Black

REACH SUMMARY REPORT FOR ICWW

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Gulf ICWW	94.00	84.50	9.50	171.40	1.65100	0.00064	9.300	182.49	58.297	0.002	30.513	598.75
2	Gulf ICWW	84.50	71.50	13.00	-22.93	-8.83793	-0.00656	13.350	209.06	-312.067	-0.022	43.801	685.93
3	Gulf ICWW	71.50	62.00	9.50	-104.64	-2.80521	-0.00105	12.770	395.30	-99.052	-0.003	41.898	1296.98
4	Gulf ICWW	62.00	38.00	24.00	341.71	-13.94433	0.00081	12.190	190.00	-492.374	0.003	39.995	623.39
8	Gulf ICWW	38.00	0.00	38.00	-175.72	-3.94284	-0.00250	12.800	155.80	-139.222	-0.008	41.997	511.18

LA-QUAL TMDL for Gulf ICWW and Bayou Black

REACH SUMMARY REPORT FOR Bayou Black

RCH	REACH NAME	BEGIN	ENDING	REACH	TRAVEL	FLOW AT	AVERAGE	AVG	AVG	FLOW AT	AVERAGE	AVG	AVG

NO.		DIST km	DIST km	LENGTH km	TIME days	EOR m3/s	VELO m/s	DEPTH m	WIDTH m	EOR cfs	VELO fps	DEPTH ft	WIDTH ft
5	Bayou Black	45.00	38.75	6.25	14.03	4.68300	0.00516	4.570	196.71	165.357	0.017	14.994	645.41
6	Bayou Black	38.75	30.00	8.75	0.77	4.78511	0.13095	1.160	31.17	168.962	0.430	3.806	102.27
7	Bayou Black	30.00	0.00	30.00	2.53	5.72181	0.13708	1.160	31.17	202.037	0.450	3.806	102.27

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD OUT	WITH IN	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT
1	377.	0.	-379.	0.	0.	1.	16.	0.	0.	0.	0.	37.	-271.	-58.	0.	0.	-92.	0.	0.	0.	369.	0.	0.	-800.2	800.2	0.01
2	379.	0.	-393.	-1.	0.	8.	16.	0.	0.	0.	0.	36.	-263.	-59.	0.	0.	-93.	0.	0.	0.	370.	0.	0.	-809.0	809.0	0.01
3	393.	0.	-409.	-8.	0.	11.	16.	0.	0.	0.	0.	36.	-258.	-59.	0.	0.	-93.	0.	0.	0.	370.	0.	0.	-826.8	826.8	0.01
4	409.	0.	-425.	-11.	0.	12.	16.	0.	0.	0.	0.	35.	-255.	-59.	0.	0.	-93.	0.	0.	0.	370.	0.	0.	-843.0	843.0	0.00
5	425.	0.	-442.	-12.	0.	12.	16.	0.	0.	0.	0.	34.	-252.	-59.	0.	0.	-93.	0.	0.	0.	371.	0.	0.	-858.4	858.4	0.00
6	442.	0.	-458.	-12.	0.	11.	16.	0.	0.	0.	0.	33.	-250.	-60.	0.	0.	-93.	0.	0.	0.	371.	0.	0.	-873.4	873.3	0.00
7	458.	0.	-474.	-11.	0.	10.	16.	0.	0.	0.	0.	32.	-249.	-60.	0.	0.	-93.	0.	0.	0.	372.	0.	0.	-888.2	888.2	0.00
8	474.	0.	-491.	-10.	0.	9.	16.	0.	0.	0.	0.	31.	-249.	-60.	0.	0.	-93.	0.	0.	0.	372.	0.	0.	-903.0	903.0	-0.01
9	491.	0.	-507.	-9.	0.	8.	16.	0.	0.	0.	0.	30.	-248.	-60.	0.	0.	-93.	0.	0.	0.	372.	0.	0.	-917.9	917.9	-0.01
10	507.	0.	-523.	-8.	0.	7.	16.	0.	0.	0.	0.	30.	-248.	-60.	0.	0.	-94.	0.	0.	0.	373.	0.	0.	-932.9	932.9	-0.01
11	523.	0.	-540.	-7.	0.	6.	16.	0.	0.	0.	0.	29.	-248.	-60.	0.	0.	-94.	0.	0.	0.	373.	0.	0.	-948.0	948.0	-0.02
12	540.	0.	-556.	-6.	0.	5.	16.	0.	0.	0.	0.	28.	-247.	-60.	0.	0.	-94.	0.	0.	0.	373.	0.	0.	-963.2	963.1	-0.02
13	556.	0.	-572.	-5.	0.	5.	16.	0.	0.	0.	0.	28.	-247.	-60.	0.	0.	-94.	0.	0.	0.	374.	0.	0.	-978.4	978.4	-0.02
14	572.	0.	-588.	-5.	0.	4.	16.	0.	0.	0.	0.	27.	-247.	-60.	0.	0.	-94.	0.	0.	0.	374.	0.	0.	-993.7	993.7	-0.02
15	588.	0.	-604.	-4.	0.	4.	16.	0.	0.	0.	0.	27.	-247.	-60.	0.	0.	-94.	0.	0.	0.	374.	0.	0.	-1009.1	1009.1	-0.02
16	604.	0.	-619.	-4.	0.	3.	16.	0.	0.	0.	0.	27.	-247.	-60.	0.	0.	-94.	0.	0.	0.	375.	0.	0.	-1024.5	1024.5	-0.03
17	619.	0.	-635.	-3.	0.	3.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-94.	0.	0.	0.	375.	0.	0.	-1039.9	1039.9	-0.03
18	635.	0.	-651.	-3.	0.	2.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-95.	0.	0.	0.	376.	0.	0.	-1055.4	1055.4	-0.03
19	651.	0.	-666.	-2.	0.	2.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-95.	0.	0.	0.	376.	0.	0.	-1070.8	1070.8	-0.03
20	666.	0.	-682.	-2.	0.	1.	16.	0.	0.	0.	0.	26.	-247.	-60.	0.	0.	-95.	0.	0.	0.	376.	0.	0.	-1086.2	1086.1	-0.03
21	682.	0.	-698.	-1.	0.	1.	16.	0.	0.	0.	0.	25.	-247.	-60.	0.	0.	-95.	0.	0.	0.	377.	0.	0.	-1101.5	1101.4	-0.04
22	698.	0.	-713.	-1.	0.	0.	16.	0.	0.	0.	0.	25.	-247.	-60.	0.	0.	-95.	0.	0.	0.	377.	0.	0.	-1116.7	1116.6	-0.04
23	713.	0.	-728.	0.	0.	0.	16.	0.	0.	0.	0.	25.	-247.	-60.	0.	0.	-95.	0.	0.	0.	377.	0.	0.	-1131.9	1131.8	-0.04
24	728.	0.	-744.	0.	0.	-1.	16.	0.	0.	0.	0.	25.	-247.	-60.	0.	0.	-95.	0.	0.	0.	378.	0.	0.	-1147.8	1147.7	-0.04
25	744.	0.	-759.	1.	0.	-2.	16.	0.	0.	0.	0.	25.	-247.	-61.	0.	0.	-95.	0.	0.	0.	378.	0.	0.	-1164.3	1164.2	-0.04
26	759.	0.	-773.	2.	0.	-4.	16.	0.	0.	0.	0.	25.	-247.	-61.	0.	0.	-96.	0.	0.	0.	378.	0.	0.	-1181.0	1181.0	-0.05
27	773.	0.	-788.	4.	0.	-7.	16.	0.	0.	0.	0.	25.	-247.	-61.	0.	0.	-96.	0.	0.	0.	379.	0.	0.	-1198.0	1198.0	-0.05
28	788.	0.	-801.	7.	0.	-10.	16.	0.	0.	0.	0.	26.	-247.	-61.	0.	0.	-96.	0.	0.	0.	379.	0.	0.	-1215.5	1215.5	-0.05
29	801.	0.	-814.	10.	0.	-15.	16.	0.	0.	0.	0.	26.	-248.	-61.	0.	0.	-96.	0.	0.	0.	380.	0.	0.	-1233.6	1233.5	-0.05
30	814.	0.	-826.	15.	0.	-21.	16.	0.	0.	0.	0.	27.	-248.	-61.	0.	0.	-96.	0.	0.	0.	380.	0.	0.	-1252.5	1252.4	-0.05
31	826.	0.	-836.	21.	0.	-30.	16.	0.	0.	0.	0.	29.	-249.	-62.	0.	0.	-96.	0.	0.	0.	380.	0.	0.	-1272.4	1272.4	-0.05
32	836.	0.	-844.	30.	0.	-42.	16.	0.	0.	0.	0.	31.	-250.	-62.	0.	0.	-96.	0.	0.	0.	381.	0.	0.	-1293.8	1293.8	-0.05
33	844.	0.	-848.	42.	0.	-58.	16.	0.	0.	0.	0.	34.	-252.	-62.	0.	0.	-96.	0.	0.	0.	381.	0.	0.	-1317.0	1316.9	-0.05
34	848.	0.	-848.	58.	0.	-79.	16.	0.	0.	0.	0.	38.	-256.	-62.	0.	0.	-97.	0.	0.	0.	381.	0.	0.	-1342.2	1342.1	-0.05
35	848.	0.	-843.	79.	0.	-105.	16.	0.	0.	0.	0.	44.	-262.	-63.	0.	0.	-97.	0.	0.	0.	382.	0.	0.	-1369.5	1369.5	-0.04
36	843.	0.	-829.	105.	0.	-137.	16.	0.	0.	0.	0.	52.	-274.	-62.	0.	0.	-97.	0.	0.	0.	382.	0.	0.	-1398.4	1398.4	-0.03
37	829.	0.	-806.	137.	0.	-169.	16.	0.	0.	0.	0.	62.	-293.	-61.	0.	0.	-97.	0.	0.	0.	382.	0.	0.	-1426.7	1426.7	-0.01
38	806.	0.	-774.	169.	0.	-192.	16.	0.	0.	0.	0.	75.	-328.	-58.	0.	0.	-97.	0.	0.	0.	383.	0.	0.	-1449.2	1449.2	0.01
39	774.	0.	-21919.	192.	0.	-5.	10.	0.	0.21001.		0.	103.	-645.	-85.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22709.2	22709.2	0.05
40	21919.	0.	-21885.	5.	0.	-4.	10.	0.	0.	0.	0.	103.	-636.	-86.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22667.1	22667.1	0.05
41	21885.	0.	-21859.	4.	0.	-3.	10.	0.	0.	0.	0.	104.	-628.	-87.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22632.7	22632.8	0.05
42	21859.	0.	-21840.	3.	0.	-2.	10.	0.	0.	0.	0.	104.	-620.	-89.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22605.8	22605.8	0.05

43	21840.	0.	-21827.	2.	0.	-1.	10.	0.	0.	0.	0.	104.	-612.	-90.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22585.9	22586.0	0.05				
44	21827.	0.	-21821.	1.	0.	-1.	10.	0.	0.	0.	0.	104.	-604.	-91.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22572.7	22572.8	0.05				
45	21821.	0.	-21821.	1.	0.	0.	10.	0.	0.	0.	0.	104.	-597.	-92.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22566.0	22566.0	0.05				
46	21821.	0.	-21826.	0.	0.	0.	10.	0.	0.	0.	0.	104.	-590.	-94.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22565.7	22565.8	0.05				
47	21826.	0.	-21838.	0.	0.	1.	10.	0.	0.	0.	0.	104.	-584.	-95.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22571.9	22571.9	0.05				
48	21838.	0.	-21854.	-1.	0.	2.	10.	0.	0.	0.	0.	104.	-577.	-96.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22583.7	22583.7	0.05				
49	21854.	0.	-21876.	-2.	0.	2.	10.	0.	0.	0.	0.	104.	-571.	-97.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22600.6	22600.7	0.04				
50	21876.	0.	-21902.	-2.	0.	3.	10.	0.	0.	0.	0.	104.	-565.	-97.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22622.6	22622.6	0.05				
51	21902.	0.	-21933.	-3.	0.	3.	10.	0.	0.	0.	0.	104.	-560.	-98.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22649.2	22649.2	0.05				
52	21933.	0.	-21968.	-3.	0.	4.	10.	0.	0.	0.	0.	103.	-554.	-99.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22680.2	22680.3	0.04				
53	21968.	0.	-22007.	-4.	0.	4.	10.	0.	0.	0.	0.	103.	-549.	-100.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22715.8	22715.8	0.04				
54	22007.	0.	-22053.	-4.	0.	7.	10.	0.	0.	0.	0.	102.	-544.	-101.	0.	0.	-56.	0.	0.	0.	630.	0.	0.	-22757.5	22757.6	0.04				
55	22053.	0.	-22122.	-7.	0.	30.	10.	0.	0.	0.	0.	102.	-539.	-101.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-22825.4	22825.4	0.04				
56	22122.	0.	-22401.	-30.	0.	259.	10.	0.	0.	0.	0.	99.	-533.	-101.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-23120.8	23120.8	0.03				
57	22401.	0.	5399.	-259.	0.	860.	10.	0.	0.	0.	******	75.	-511.	-97.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-31074.0	29374.9	*******				
58	-5399.	0.	7088.	-860.	0.	275.	10.	0.	0.	0.	0.	-7.	-449.	-77.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-6847.8	8003.7	1155.92				
59	-7088.	0.	7619.	-275.	0.	79.	10.	0.	0.	0.	0.	-33.	-431.	-70.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-7952.3	8339.3	387.03				

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE IN	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT
60	-7619.	0.	7763.	-79.	0.	13.	10.	0.	0.	0.	0.	-40.	-426.	-67.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-8287.6	8417.6	129.96				
61	-7763.	0.	7777.	-13.	0.	-9.	10.	0.	0.	0.	0.	-41.	-425.	-66.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-8374.4	8418.6	44.19				
62	-7777.	0.	7747.	9.	0.	-18.	10.	0.	0.	0.	0.	-41.	-425.	-66.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-8382.2	8397.9	15.69				
63	-7747.	0.	7701.	18.	0.	-21.	10.	0.	0.	0.	0.	-39.	-425.	-66.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-8353.7	8360.0	6.25				
64	-7701.	0.	7649.	21.	0.	-23.	10.	0.	0.	0.	0.	-37.	-425.	-66.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-8307.8	8311.0	3.16				
65	-7649.	0.	7593.	23.	0.	-24.	10.	0.	0.	0.	0.	-35.	-425.	-67.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-8254.9	8257.1	2.17				
66	-7593.	0.	7535.	24.	0.	-25.	10.	0.	0.	0.	0.	-33.	-425.	-67.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-8198.7	8200.5	1.88				
67	-7535.	0.	7476.	25.	0.	-26.	10.	0.	0.	0.	0.	-30.	-425.	-67.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-8140.0	8141.9	1.80				
68	-7476.	0.	7414.	26.	0.	-27.	10.	0.	0.	0.	0.	-28.	-426.	-68.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-8079.4	8081.3	1.81				
69	-7414.	0.	7350.	27.	0.	-28.	10.	0.	0.	0.	0.	-25.	-426.	-68.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-8017.0	8018.8	1.83				
70	-7350.	0.	7285.	28.	0.	-29.	10.	0.	0.	0.	0.	-23.	-427.	-68.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-7952.6	7954.4	1.86				
71	-7285.	0.	7217.	29.	0.	-30.	10.	0.	0.	0.	0.	-20.	-427.	-68.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-7886.2	7888.2	1.93				
72	-7217.	0.	7148.	30.	0.	-31.	10.	0.	0.	0.	0.	-17.	-428.	-69.	0.	0.	-56.	0.	0.	0.	631.	0.	0.	-7818.0	7819.9	1.96				
73	-7148.	0.	7077.	31.	0.	-33.	10.	0.	0.	0.	0.	-14.	-428.	-69.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-7747.8	7749.7	1.97				
74	-7077.	0.	7003.	33.	0.	-34.	10.	0.	0.	0.	0.	-11.	-429.	-69.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-7675.5	7677.5	1.97				
75	-7003.	0.	6928.	34.	0.	-35.	10.	0.	0.	0.	0.	-8.	-430.	-70.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-7601.3	7603.3	1.94				
76	-6928.	0.	6850.	35.	0.	-36.	10.	0.	0.	0.	0.	-5.	-431.	-70.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-7525.1	7527.0	1.89				
77	-6850.	0.	6771.	36.	0.	-37.	10.	0.	0.	0.	0.	-1.	-433.	-70.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-7447.0	7448.8	1.82				
78	-6771.	0.	6690.	37.	0.	-38.	10.	0.	0.	0.	0.	2.	-434.	-70.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-7369.3	7371.0	1.69				
79	-6690.	0.	6607.	38.	0.	-39.	10.	0.	0.	0.	0.	6.	-436.	-71.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-7291.2	7292.7	1.53				
80	-6607.	0.	6522.	39.	0.	-40.	10.	0.	0.	0.	0.	10.	-438.	-71.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-7211.6	7212.9	1.32				
81	-6522.	0.	6436.	40.	0.	-40.	10.	0.	0.	0.	0.	13.	-441.	-71.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-7130.7	7131.7	1.03				
82	-6436.	0.	6350.	40.	0.	-41.	10.	0.	0.	0.	0.	17.	-444.	-71.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-7048.7	7049.4	0.67				
83	-6350.	0.	6262.	41.	0.	-41.	10.	0.	0.	0.	0.	21.	-448.	-71.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-6966.0	6966.2	0.20				
84	-6262.	0.	6174.	41.	0.	-41.	10.	0.	0.	0.	0.	25.	-453.	-71.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-6883.0	6882.7	-0.37				
85	-6174.	0.	6087.	41.	0.	-41.	10.	0.	0.	0.	0.	29.	-458.	-72.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-6800.2	6799.1	-1.10				
86	-6087.	0.	6001.	41.	0.	-40.	10.	0.	0.	0.	0.	33.	-464.	-72.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-6718.3	6716.3	-1.99				
87	-6001.	0.	5916.	40.	0.	-38.	10.	0.	0.	0.	0.	36.	-472.	-72.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-6638.0	6634.9	-3.09				
88	-5916.	0.	5835.	38.	0.	-36.	10.	0.	0.	0.	0.	40.	-481.	-71.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-6560.3	6555.8	-4.44				
89	-5835.	0.	4853.	36.	0.	-51.	10.	0.	0.	942.	0.	43.	-491.	-71.	0.	0.	-56.	0.	0.	0.	632.	0.	0.	-6504.3	6516.8	12.58				

90 -4853. 0. 4764. 51. 0. -70. 10. 0. 0. 0. 0. 48. -432. -69. 0. 0. -56. 0. 0. 0. 632. 0. 0. -5480.1 5505.4 25.30
91 -4764. 0. 4649. 70. 0. -29. 10. 0. 0. 0. 0. 103. -743. -124. 0. 0. -381. 0. 0. 0. 1144. 0. 0. -6040.5 5976.4 -64.10
92 -4649. 0. 4599. 29. 0. -19. 10. 0. 0. 0. 0. 107. -732. -124. 0. 0. -381. 0. 0. 0. 1145. 0. 0. -5904.9 5890.0 -14.99
93 -4599. 0. 4563. 19. 0. -17. 10. 0. 0. 0. 0. 110. -729. -124. 0. 0. -382. 0. 0. 0. 1145. 0. 0. -5850.2 5847.5 -2.71
94 -4563. 0. 4530. 17. 0. -17. 10. 0. 0. 0. 0. 113. -728. -125. 0. 0. -382. 0. 0. 0. 1145. 0. 0. -5815.3 5815.9 0.58
95 -4530. 0. 4497. 17. 0. -19. 10. 0. 0. 0. 0. 116. -728. -126. 0. 0. -382. 0. 0. 0. 1145. 0. 0. -5784.4 5785.9 1.46
96 -4497. 0. 4462. 19. 0. -20. 10. 0. 0. 0. 0. 119. -728. -127. 0. 0. -382. 0. 0. 0. 1146. 0. 0. -5753.4 5755.1 1.75
97 -4462. 0. 4425. 20. 0. -21. 10. 0. 0. 0. 0. 122. -728. -128. 0. 0. -382. 0. 0. 0. 1146. 0. 0. -5721.1 5723.0 1.89
98 -4425. 0. 4386. 21. 0. -23. 10. 0. 0. 0. 0. 126. -728. -130. 0. 0. -382. 0. 0. 0. 1146. 0. 0. -5687.2 5689.2 2.00
99 -4386. 0. 4345. 23. 0. -24. 10. 0. 0. 0. 0. 129. -728. -131. 0. 0. -382. 0. 0. 0. 1146. 0. 0. -5651.6 5653.7 2.11
100 -4345. 0. 4301. 24. 0. -26. 10. 0. 0. 0. 0. 133. -729. -132. 0. 0. -382. 0. 0. 0. 1147. 0. 0. -5614.1 5616.3 2.20
101 -4301. 0. 4256. 26. 0. -28. 10. 0. 0. 0. 0. 138. -730. -133. 0. 0. -383. 0. 0. 0. 1147. 0. 0. -5574.8 5577.1 2.27
102 -4256. 0. 4208. 28. 0. -30. 10. 0. 0. 0. 0. 142. -731. -135. 0. 0. -383. 0. 0. 0. 1147. 0. 0. -5533.5 5535.8 2.28
103 -4208. 0. 4158. 30. 0. -31. 10. 0. 0. 0. 0. 147. -732. -136. 0. 0. -383. 0. 0. 0. 1148. 0. 0. -5490.3 5492.5 2.23
104 -4158. 0. 4106. 31. 0. -33. 10. 0. 0. 0. 0. 152. -734. -138. 0. 0. -383. 0. 0. 0. 1148. 0. 0. -5445.2 5447.2 2.06
105 -4106. 0. 4051. 33. 0. -34. 10. 0. 0. 0. 0. 158. -736. -139. 0. 0. -383. 0. 0. 0. 1148. 0. 0. -5398.2 5400.0 1.73
106 -4051. 0. 3995. 34. 0. -35. 10. 0. 0. 0. 0. 163. -740. -141. 0. 0. -383. 0. 0. 0. 1148. 0. 0. -5349.8 5351.0 1.17
107 -3995. 0. 3937. 35. 0. -36. 10. 0. 0. 0. 0. 169. -745. -142. 0. 0. -383. 0. 0. 0. 1149. 0. 0. -5300.3 5300.6 0.28
108 -3937. 0. 3880. 36. 0. -35. 10. 0. 0. 0. 0. 175. -751. -144. 0. 0. -383. 0. 0. 0. 1149. 0. 0. -5250.5 5249.4 -1.09
109 -3880. 0. 3823. 35. 0. -33. 10. 0. 0. 0. 0. 181. -760. -145. 0. 0. -384. 0. 0. 0. 1149. 0. 0. -5201.3 5198.1 -3.15
110 -3823. 0. 3770. 33. 0. -28. 10. 0. 0. 0. 0. 186. -773. -146. 0. 0. -384. 0. 0. 0. 1150. 0. 0. -5154.4 5148.3 -6.16
111 -3770. 0. 3723. 28. 0. -21. 10. 0. 0. 0. 0. 191. -790. -147. 0. 0. -384. 0. 0. 0. 1150. 0. 0. -5112.2 5101.7 -10.53
112 -3723. 0. 3686. 21. 0. -9. 10. 0. 0. 0. 0. 194. -814. -148. 0. 0. -384. 0. 0. 0. 1150. 0. 0. -5078.1 5061.3 -16.81
113 -3686. 0. 3666. 9. 0. 9. 10. 0. 0. 0. 0. 195. -847. -149. 0. 0. -384. 0. 0. 0. 1150. 0. 0. -5066.2 5040.4 -25.76
114 -3666. 0. 3672. -9. 0. 37. 10. 0. 0. 0. 0. 194. -893. -149. 0. 0. -384. 0. 0. 0. 1151. 0. 0. -5101.8 5063.3 -38.49
115 -3672. 0. 3716. -37. 0. 77. 10. 0. 0. 0. 0. 188. -957. -149. 0. 0. -384. 0. 0. 0. 1151. 0. 0. -5198.7 5142.2 -56.46
116 -3716. 0. 3816. -77. 0. 136. 10. 0. 0. 0. 0. 175.-1044. -149. 0. 0. -384. 0. 0. 0. 1151. 0. 0. -5370.7 5288.9 -81.79
117 -3816. 0. 1422. -136. 0. 13. 10. 0. 0. 3084. 0. 152.-1166. -148. 0. 0. -385. 0. 0. 0. 1151. 0. 0. -5650.3 5833.1 182.79
118 -1422. 0. 1421. -13. 0. 88. 10. 0. 0. 0. 0. 150. -900. -138. 0. 0. -385. 0. 0. 0. 1152. 0. 0. -2858.3 2821.3 -36.99

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE IN	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM DECA	SOD BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT
119	-1421.	0.	1456.	-88.	0.	74.	10.	0.	0.	0.	0.	136.	-795.	-132.	0.	0.	-385.	0.	0.	0.	1152.	0.	0.	-2820.9	2827.9	6.99
120	-1456.	0.	1484.	-74.	0.	42.	10.	0.	0.	0.	0.	123.	-754.	-127.	0.	0.	-385.	0.	0.	0.	1152.	0.	0.	-2796.7	2812.0	15.37
121	-1484.	0.	1496.	-42.	0.	14.	10.	0.	0.	0.	0.	116.	-738.	-125.	0.	0.	-385.	0.	0.	0.	1153.	0.	0.	-2774.7	2788.5	13.86
122	-1496.	0.	1494.	-14.	0.	-9.	10.	0.	0.	0.	0.	114.	-732.	-125.	0.	0.	-385.	0.	0.	0.	1153.	0.	0.	-2760.3	2771.0	10.70
123	-1494.	0.	1481.	9.	0.	-27.	10.	0.	0.	0.	0.	115.	-730.	-125.	0.	0.	-385.	0.	0.	0.	1153.	0.	0.	-2760.9	2769.1	8.16
124	-1481.	0.	1460.	27.	0.	-41.	10.	0.	0.	0.	0.	120.	-730.	-126.	0.	0.	-385.	0.	0.	0.	1153.	0.	0.	-2763.6	2770.2	6.57
125	-1460.	0.	1432.	41.	0.	-54.	10.	0.	0.	0.	0.	126.	-730.	-128.	0.	0.	-386.	0.	0.	0.	1154.	0.	0.	-2758.2	2763.9	5.75
126	-1432.	0.	1399.	54.	0.	-66.	10.	0.	0.	0.	0.	135.	-732.	-131.	0.	0.	-386.	0.	0.	0.	1154.	0.	0.	-2747.0	2752.4	5.42
127	-1399.	0.	1360.	66.	0.	-78.	10.	0.	0.	0.	0.	146.	-735.	-133.	0.	0.	-386.	0.	0.	0.	1154.	0.	0.	-2731.6	2736.9	5.29
128	-1360.	0.	1316.	78.	0.	-81.	10.	0.	0.	0.	0.	159.	-741.	-136.	0.	0.	-386.	0.	0.	0.	1155.	0.	0.	-2703.5	2718.0	14.51
129	-1316.	0.	1257.	81.	0.	-34.	10.	0.	0.	0.	0.	85.	-346.	-64.	0.	0.	-222.	0.	0.	0.	531.	0.	0.	-1980.7	1963.9	-16.79
130	-1257.	0.	1215.	34.	0.	-13.	10.	0.	0.	0.	0.	91.	-349.	-65.	0.	0.	-221.	0.	0.	0.	532.	0.	0.	-1904.7	1883.0	-21.72
131	-1215.	0.	1196.	13.	0.	-3.	10.	0.	0.	0.	0.	94.	-350.	-65.	0.	0.	-221.	0.	0.	0.	533.	0.	0.	-1854.7	1844.8	-9.94
132	-1196.	0.	1186.	3.	0.	2.	10.	0.	0.	0.	0.	94.	-350.	-66.	0.	0.	-221.	0.	0.	0.	534.	0.	0.	-1832.6	1828.1	-4.52
133	-1186.	0.	1180.	-2.	0.	4.	10.	0.	0.	0.	0.	94.	-350.	-66.	0.	0.	-221.	0.	0.	0.	535.	0.	0.	-1824.5	1822.5	-2.04
134	-1180.	0.	1177.	-4.	0.	5.	10.	0.	0.	0.	0.	93.	-350.	-66.	0.	0.	-221.	0.	0.	0.	536.	0.	0.	-1821.1	1820.2	-0.92
135	-1177.	0.	1174.	-5.	0.	5.	10.	0.	0.	0.	0.	92.	-350.	-66.	0.	0.	-221.	0.	0.	0.	537.	0.	0.	-1818.5	1818.1	-0.41
136	-1174.	0.	1171.	-5.	0.	5.	10.	0.	0.	0.	0.	91.	-350.	-66.	0.	0.	-221.	0.	0.	0.	538.	0.	0.	-1816.3	1816.1	-0.18

137	-1171.	0.	1169.	-5.	0.	5.	10.	0.	0.	0.	0.	91.	-350.	-66.	0.	0.	-221.	0.	0.	0.	539.	0.	0.	-1814.1	1814.0	-0.07					
138	-1169.	0.	1167.	-5.	0.	5.	10.	0.	0.	0.	0.	90.	-350.	-66.	0.	0.	-221.	0.	0.	0.	540.	0.	0.	-1811.9	1811.8	-0.02					
139	-1167.	0.	1165.	-5.	0.	5.	10.	0.	0.	0.	0.	89.	-350.	-66.	0.	0.	-221.	0.	0.	0.	541.	0.	0.	-1809.6	1809.6	-0.01					
140	-1165.	0.	1162.	-5.	0.	5.	10.	0.	0.	0.	0.	88.	-350.	-67.	0.	0.	-221.	0.	0.	0.	542.	0.	0.	-1807.2	1807.2	0.01					
141	-1162.	0.	1160.	-5.	0.	5.	10.	0.	0.	0.	0.	87.	-350.	-67.	0.	0.	-221.	0.	0.	0.	543.	0.	0.	-1804.8	1804.8	0.01					
142	-1160.	0.	1157.	-5.	0.	5.	10.	0.	0.	0.	0.	86.	-350.	-67.	0.	0.	-221.	0.	0.	0.	544.	0.	0.	-1802.2	1802.3	0.02					
143	-1157.	0.	1154.	-5.	0.	5.	10.	0.	0.	0.	0.	85.	-350.	-67.	0.	0.	-221.	0.	0.	0.	545.	0.	0.	-1799.6	1799.6	0.02					
144	-1154.	0.	1151.	-5.	0.	5.	10.	0.	0.	0.	0.	84.	-350.	-67.	0.	0.	-221.	0.	0.	0.	546.	0.	0.	-1796.8	1796.9	0.02					
145	-1151.	0.	1149.	-5.	0.	5.	10.	0.	0.	0.	0.	84.	-350.	-67.	0.	0.	-221.	0.	0.	0.	547.	0.	0.	-1794.0	1794.0	0.02					
146	-1149.	0.	1145.	-5.	0.	5.	10.	0.	0.	0.	0.	83.	-350.	-67.	0.	0.	-221.	0.	0.	0.	548.	0.	0.	-1791.0	1791.0	0.03					
147	-1145.	0.	1142.	-5.	0.	5.	10.	0.	0.	0.	0.	82.	-350.	-67.	0.	0.	-220.	0.	0.	0.	549.	0.	0.	-1787.9	1787.9	0.03					
148	-1142.	0.	1139.	-5.	0.	5.	10.	0.	0.	0.	0.	81.	-350.	-67.	0.	0.	-220.	0.	0.	0.	550.	0.	0.	-1784.6	1784.7	0.03					
149	-1139.	0.	1135.	-5.	0.	5.	10.	0.	0.	0.	0.	80.	-350.	-67.	0.	0.	-220.	0.	0.	0.	551.	0.	0.	-1781.3	1781.3	0.04					
150	-1135.	0.	1132.	-5.	0.	4.	10.	0.	0.	0.	0.	80.	-350.	-67.	0.	0.	-220.	0.	0.	0.	552.	0.	0.	-1777.8	1777.8	0.04					
151	-1132.	0.	1128.	-4.	0.	4.	10.	0.	0.	0.	0.	79.	-350.	-68.	0.	0.	-220.	0.	0.	0.	553.	0.	0.	-1774.1	1774.2	0.05					
152	-1128.	0.	1124.	-4.	0.	4.	10.	0.	0.	0.	0.	78.	-350.	-68.	0.	0.	-220.	0.	0.	0.	554.	0.	0.	-1770.3	1770.4	0.06					
153	-1124.	0.	1120.	-4.	0.	4.	10.	0.	0.	0.	0.	77.	-350.	-68.	0.	0.	-220.	0.	0.	0.	555.	0.	0.	-1766.4	1766.5	0.07					
154	-1120.	0.	1116.	-4.	0.	4.	10.	0.	0.	0.	0.	77.	-350.	-68.	0.	0.	-220.	0.	0.	0.	556.	0.	0.	-1762.3	1762.3	0.08					
155	-1116.	0.	1111.	-4.	0.	4.	10.	0.	0.	0.	0.	76.	-350.	-68.	0.	0.	-220.	0.	0.	0.	557.	0.	0.	-1758.0	1758.1	0.09					
156	-1111.	0.	1107.	-4.	0.	3.	10.	0.	0.	0.	0.	76.	-350.	-68.	0.	0.	-220.	0.	0.	0.	558.	0.	0.	-1753.5	1753.6	0.10					
157	-1107.	0.	1102.	-3.	0.	3.	10.	0.	0.	0.	0.	75.	-350.	-69.	0.	0.	-220.	0.	0.	0.	559.	0.	0.	-1748.8	1748.9	0.12					
158	-1102.	0.	1097.	-3.	0.	3.	10.	0.	0.	0.	0.	74.	-350.	-69.	0.	0.	-220.	0.	0.	0.	560.	0.	0.	-1743.9	1744.0	0.14					
159	-1097.	0.	1091.	-3.	0.	3.	10.	0.	0.	0.	0.	74.	-350.	-69.	0.	0.	-220.	0.	0.	0.	561.	0.	0.	-1738.7	1738.9	0.16					
160	-1091.	0.	1086.	-3.	0.	2.	10.	0.	0.	0.	0.	73.	-350.	-69.	0.	0.	-220.	0.	0.	0.	562.	0.	0.	-1733.3	1733.5	0.18					
161	-1086.	0.	1080.	-2.	0.	2.	10.	0.	0.	0.	0.	73.	-350.	-70.	0.	0.	-220.	0.	0.	0.	563.	0.	0.	-1727.6	1727.8	0.20					
162	-1080.	0.	1074.	-2.	0.	2.	10.	0.	0.	0.	0.	73.	-350.	-70.	0.	0.	-220.	0.	0.	0.	564.	0.	0.	-1721.6	1721.8	0.23					
163	-1074.	0.	1067.	-2.	0.	1.	10.	0.	0.	0.	0.	72.	-350.	-70.	0.	0.	-220.	0.	0.	0.	565.	0.	0.	-1715.3	1715.6	0.26					
164	-1067.	0.	1060.	-1.	0.	1.	10.	0.	0.	0.	0.	72.	-350.	-71.	0.	0.	-219.	0.	0.	0.	566.	0.	0.	-1708.7	1709.0	0.30					
165	-1060.	0.	1053.	-1.	0.	0.	10.	0.	0.	0.	0.	72.	-350.	-71.	0.	0.	-219.	0.	0.	0.	567.	0.	0.	-1701.6	1702.0	0.32					
166	-1053.	0.	1045.	0.	0.	0.	10.	0.	0.	0.	0.	72.	-350.	-72.	0.	0.	-219.	0.	0.	0.	568.	0.	0.	-1694.7	1695.0	0.36					
167	-1045.	0.	1037.	0.	0.	-1.	10.	0.	0.	0.	0.	72.	-351.	-72.	0.	0.	-219.	0.	0.	0.	568.	0.	0.	-1688.0	1688.3	0.37					
168	-1037.	0.	1028.	1.	0.	-2.	10.	0.	0.	0.	0.	72.	-351.	-72.	0.	0.	-219.	0.	0.	0.	569.	0.	0.	-1681.1	1681.4	0.37					
169	-1028.	0.	1019.	2.	0.	-2.	10.	0.	0.	0.	0.	73.	-351.	-73.	0.	0.	-219.	0.	0.	0.	570.	0.	0.	-1673.9	1674.2	0.34					
170	-1019.	0.	1009.	2.	0.	-3.	10.	0.	0.	0.	0.	73.	-352.	-74.	0.	0.	-219.	0.	0.	0.	571.	0.	0.	-1666.3	1666.6	0.26					
171	-1009.	0.	999.	3.	0.	-3.	10.	0.	0.	0.	0.	74.	-353.	-74.	0.	0.	-219.	0.	0.	0.	572.	0.	0.	-1658.5	1658.6	0.08					
172	-999.	0.	989.	3.	0.	-3.	10.	0.	0.	0.	0.	74.	-354.	-75.	0.	0.	-219.	0.	0.	0.	573.	0.	0.	-1650.6	1650.3	-0.26					
173	-989.	0.	979.	3.	0.	-2.	10.	0.	0.	0.	0.	75.	-357.	-75.	0.	0.	-219.	0.	0.	0.	574.	0.	0.	-1642.5	1641.7	-0.88					
174	-979.	0.	970.	2.	0.	1.	10.	0.	0.	0.	0.	75.	-361.	-76.	0.	0.	-219.	0.	0.	0.	575.	0.	0.	-1635.3	1633.4	-1.92					
175	-970.	0.	963.	-1.	0.	5.	10.	0.	0.	0.	0.	75.	-367.	-77.	0.	0.	-219.	0.	0.	0.	576.	0.	0.	-1633.6	1629.9	-3.66					
176	-963.	0.	959.	-5.	0.	14.	10.	0.	0.	0.	0.	74.	-377.	-77.	0.	0.	-219.	0.	0.	0.	577.	0.	0.	-1641.6	1635.1	-6.55					
177	-959.	0.	961.	-14.	0.	30.	10.	0.	0.	0.	0.	72.	-393.	-78.	0.	0.	-219.	0.	0.	0.	578.	0.	0.	-1663.0	1651.7	-11.28					

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT
178	-961.	0.	975.	-30.	0.	57.	10.	0.	0.	0.	66.	-418.	-78.	0.	0.	-219.	0.	0.	0.	579.	0.	0.	-1706.7	1687.7	-18.99
179	-975.	0.	1007.	-57.	0.	101.	10.	0.	0.	0.	57.	-458.	-78.	0.	0.	-219.	0.	0.	0.	580.	0.	0.	-1787.2	1755.7	-31.48
180	-1007.	0.	1070.	-101.	0.	176.	10.	0.	0.	0.	39.	-522.	-79.	0.	0.	-219.	0.	0.	0.	581.	0.	0.	-1927.8	1876.1	-51.65
181	-1070.	0.	-176.	-176.	0.	-207.	10.	0.	0.	2230.	-159.	9.	-624.	-78.	0.	0.	-219.	0.	0.	0.	582.	0.	0.	-2708.8	2831.8	123.00
182	176.	0.	-164.	207.	0.	-78.	10.	0.	0.	0.	0.	45.	-485.	-77.	0.	0.	-218.	0.	0.	0.	583.	0.	0.	-1022.3	1022.1	-0.17
183	164.	0.	-164.	78.	0.	-20.	10.	0.	0.	0.	0.	58.	-416.	-76.	0.	0.	-218.	0.	0.	0.	584.	0.	0.	-894.6	894.5	-0.15

184	164.	0.	-170.	20.	0.	4.	10.	0.	0.	0.	0.	62.	-383.	-75.	0.	0.	-218.	0.	0.	0.	585.	0.	0.	-845.5	845.3	-0.14
185	170.	0.	-178.	-4.	0.	14.	10.	0.	0.	0.	0.	61.	-366.	-74.	0.	0.	-218.	0.	0.	0.	586.	0.	0.	-840.9	840.7	-0.14
186	178.	0.	-188.	-14.	0.	16.	10.	0.	0.	0.	0.	59.	-358.	-72.	0.	0.	-218.	0.	0.	0.	587.	0.	0.	-850.9	850.8	-0.14
187	188.	0.	-199.	-16.	0.	16.	10.	0.	0.	0.	0.	56.	-354.	-71.	0.	0.	-218.	0.	0.	0.	588.	0.	0.	-859.0	858.9	-0.14
188	199.	0.	-210.	-16.	0.	15.	10.	0.	0.	0.	0.	53.	-352.	-70.	0.	0.	-218.	0.	0.	0.	589.	0.	0.	-866.6	866.5	-0.15
189	210.	0.	-221.	-15.	0.	14.	10.	0.	0.	0.	0.	50.	-351.	-70.	0.	0.	-218.	0.	0.	0.	590.	0.	0.	-874.4	874.3	-0.15
190	221.	0.	-232.	-14.	0.	12.	10.	0.	0.	0.	0.	48.	-350.	-69.	0.	0.	-218.	0.	0.	0.	591.	0.	0.	-882.5	882.3	-0.15
191	232.	0.	-242.	-12.	0.	11.	10.	0.	0.	0.	0.	46.	-350.	-68.	0.	0.	-218.	0.	0.	0.	592.	0.	0.	-891.0	890.8	-0.15
192	242.	0.	-253.	-11.	0.	10.	10.	0.	0.	0.	0.	44.	-350.	-68.	0.	0.	-218.	0.	0.	0.	593.	0.	0.	-899.8	899.6	-0.16
193	253.	0.	-263.	-10.	0.	9.	10.	0.	0.	0.	0.	42.	-350.	-68.	0.	0.	-218.	0.	0.	0.	594.	0.	0.	-908.9	908.7	-0.16
194	263.	0.	-274.	-9.	0.	9.	10.	0.	0.	0.	0.	41.	-350.	-67.	0.	0.	-218.	0.	0.	0.	595.	0.	0.	-918.2	918.1	-0.16
195	274.	0.	-285.	-9.	0.	8.	10.	0.	0.	0.	0.	39.	-350.	-67.	0.	0.	-218.	0.	0.	0.	596.	0.	0.	-927.8	927.7	-0.16
196	285.	0.	-295.	-8.	0.	8.	10.	0.	0.	0.	0.	38.	-350.	-67.	0.	0.	-218.	0.	0.	0.	597.	0.	0.	-937.6	937.4	-0.16
197	295.	0.	-306.	-8.	0.	7.	10.	0.	0.	0.	0.	37.	-350.	-67.	0.	0.	-218.	0.	0.	0.	598.	0.	0.	-947.5	947.3	-0.17
198	306.	0.	-316.	-7.	0.	7.	10.	0.	0.	0.	0.	35.	-350.	-66.	0.	0.	-218.	0.	0.	0.	599.	0.	0.	-957.5	957.4	-0.17
199	316.	0.	-327.	-7.	0.	7.	10.	0.	0.	0.	0.	34.	-350.	-66.	0.	0.	-217.	0.	0.	0.	600.	0.	0.	-967.7	967.5	-0.17
200	327.	0.	-338.	-7.	0.	7.	10.	0.	0.	0.	0.	33.	-350.	-66.	0.	0.	-217.	0.	0.	0.	601.	0.	0.	-978.0	977.8	-0.17
201	338.	0.	-348.	-7.	0.	6.	10.	0.	0.	0.	0.	32.	-350.	-66.	0.	0.	-217.	0.	0.	0.	602.	0.	0.	-988.3	988.2	-0.17
202	348.	0.	-359.	-6.	0.	6.	10.	0.	0.	0.	0.	31.	-350.	-66.	0.	0.	-217.	0.	0.	0.	603.	0.	0.	-998.8	998.6	-0.17
203	359.	0.	-370.	-6.	0.	6.	10.	0.	0.	0.	0.	30.	-350.	-66.	0.	0.	-217.	0.	0.	0.	604.	0.	0.	-1009.3	1009.2	-0.18
204	370.	0.	-381.	-6.	0.	6.	10.	0.	0.	0.	0.	29.	-350.	-66.	0.	0.	-217.	0.	0.	0.	605.	0.	0.	-1020.0	1019.8	-0.18
205	381.	0.	-392.	-6.	0.	6.	10.	0.	0.	0.	0.	28.	-350.	-66.	0.	0.	-217.	0.	0.	0.	606.	0.	0.	-1030.7	1030.5	-0.18
206	392.	0.	-403.	-6.	0.	6.	10.	0.	0.	0.	0.	27.	-350.	-66.	0.	0.	-217.	0.	0.	0.	607.	0.	0.	-1041.4	1041.3	-0.18
207	403.	0.	-414.	-6.	0.	6.	10.	0.	0.	0.	0.	26.	-350.	-66.	0.	0.	-217.	0.	0.	0.	608.	0.	0.	-1052.3	1052.1	-0.18
208	414.	0.	-425.	-6.	0.	6.	10.	0.	0.	0.	0.	25.	-350.	-66.	0.	0.	-217.	0.	0.	0.	609.	0.	0.	-1063.2	1063.0	-0.18
209	425.	0.	-436.	-6.	0.	6.	10.	0.	0.	0.	0.	24.	-350.	-66.	0.	0.	-217.	0.	0.	0.	610.	0.	0.	-1074.1	1073.9	-0.18
210	436.	0.	-447.	-6.	0.	5.	10.	0.	0.	0.	0.	23.	-350.	-66.	0.	0.	-217.	0.	0.	0.	611.	0.	0.	-1085.0	1084.8	-0.19
211	447.	0.	-458.	-5.	0.	5.	10.	0.	0.	0.	0.	22.	-350.	-66.	0.	0.	-217.	0.	0.	0.	612.	0.	0.	-1095.8	1095.6	-0.19
212	458.	0.	-469.	-5.	0.	5.	10.	0.	0.	0.	0.	21.	-350.	-66.	0.	0.	-217.	0.	0.	0.	612.	0.	0.	-1106.5	1106.3	-0.19
213	469.	0.	-480.	-5.	0.	4.	10.	0.	0.	0.	0.	20.	-350.	-66.	0.	0.	-217.	0.	0.	0.	613.	0.	0.	-1116.9	1116.7	-0.19
214	480.	0.	-491.	-4.	0.	2.	10.	0.	0.	0.	0.	20.	-350.	-65.	0.	0.	-217.	0.	0.	0.	614.	0.	0.	-1126.8	1126.6	-0.19
215	491.	0.	-501.	-2.	0.	0.	10.	0.	0.	0.	0.	19.	-350.	-65.	0.	0.	-217.	0.	0.	0.	615.	0.	0.	-1136.0	1135.8	-0.19
216	501.	0.	-511.	0.	0.	-4.	10.	0.	0.	0.	0.	19.	-351.	-65.	0.	0.	-217.	0.	0.	0.	616.	0.	0.	-1147.7	1147.5	-0.19
217	511.	0.	-519.	4.	0.	-10.	10.	0.	0.	0.	0.	20.	-352.	-65.	0.	0.	-216.	0.	0.	0.	617.	0.	0.	-1162.9	1162.8	-0.19
218	519.	0.	-526.	10.	0.	-17.	10.	0.	0.	0.	0.	22.	-356.	-64.	0.	0.	-216.	0.	0.	0.	618.	0.	0.	-1179.7	1179.5	-0.19
219	526.	0.	-530.	17.	0.	-22.	10.	0.	0.	0.	0.	25.	-365.	-64.	0.	0.	-216.	0.	0.	0.	619.	0.	0.	-1197.1	1196.9	-0.18
220	530.	0.	-532.	22.	0.	-14.	10.	0.	0.	0.	0.	29.	-386.	-63.	0.	0.	-216.	0.	0.	0.	620.	0.	0.	-1211.3	1211.1	-0.18
221	532.	0.	7938.	14.	0.	7.	10.	0.	0.	0.	-8474.	31.	-436.	-63.	0.	0.	-216.	0.	0.	0.	621.	0.	0.	-9189.5	9153.4	-36.03
222	-7938.	0.	7964.	-7.	0.	15.	10.	0.	0.	0.	0.	30.	-456.	-63.	0.	0.	-216.	0.	0.	0.	622.	0.	0.	-8680.0	8641.3	-38.73
223	-7964.	0.	8029.	-15.	0.	19.	10.	0.	0.	0.	0.	27.	-470.	-64.	0.	0.	-216.	0.	0.	0.	623.	0.	0.	-8728.8	8708.7	-20.10
224	-8029.	0.	8114.	-19.	0.	35.	10.	0.	0.	0.	0.	24.	-485.	-64.	0.	0.	-216.	0.	0.	0.	624.	0.	0.	-8813.0	8807.9	-5.08
405	-8114.	2731.	4830.	-35.	0.	298.	13.	0.	0.	0.	0.	17.	-430.	-56.	0.	0.	-33.	0.	0.	0.	537.	0.	0.	-8668.1	8426.5	-241.60
406	-4830.	0.	5158.	-298.	0.	128.	13.	0.	0.	0.	0.	1.	-429.	-51.	0.	0.	-33.	0.	0.	0.	537.	0.	0.	-5642.3	5836.6	194.27
407	-5158.	0.	5290.	-128.	0.	52.	13.	0.	0.	0.	0.	-6.	-430.	-50.	0.	0.	-33.	0.	0.	0.	536.	0.	0.	-5804.9	5891.7	86.78
408	-5290.	0.	5335.	-52.	0.	19.	13.	0.	0.	0.	0.	-9.	-432.	-49.	0.	0.	-33.	0.	0.	0.	536.	0.	0.	-5864.8	5902.9	38.10
409	-5335.	0.	5342.	-19.	0.	4.	13.	0.	0.	0.	0.	-10.	-434.	-48.	0.	0.	-33.	0.	0.	0.	535.	0.	0.	-5879.4	5895.3	15.89
410	-5342.	0.	5333.	-4.	0.	-1.	13.	0.	0.	0.	0.	-11.	-437.	-48.	0.	0.	-33.	0.	0.	0.	535.	0.	0.	-5875.7	5881.3	5.60
411	-5333.	0.	5318.	1.	0.	-1.	13.	0.	0.	0.	0.	-10.	-440.	-48.	0.	0.	-33.	0.	0.	0.	534.	0.	0.	-5866.1	5866.7	0.63
412	-5318.	0.	5302.	1.	0.	0.	13.	0.	0.	0.	0.	-10.	-444.	-48.	0.	0.	-33.	0.	0.	0.	534.	0.	0.	-5853.6	5851.6	-2.00
413	-5302.	0.	5368.	0.	0.	53.	13.	0.	0.	204.	-390.	-10.	-448.	-49.	0.	0.	-33.	0.	0.	0.	534.	0.	0.	-6233.0	6172.5	-60.52

414	-5368.	0.	5415.	-53.	0.	21.	13.	0.	0.	0.	0.	-13.	-430.	-48.	0.	0.	-33.	0.	0.	0.	533.	0.	0.	-5944.9	5981.9	36.97					
415	-5415.	0.	5424.	-21.	0.	2.	13.	0.	0.	0.	0.	-14.	-422.	-47.	0.	0.	-33.	0.	0.	0.	533.	0.	0.	-5951.9	5972.4	20.50					
416	-5424.	0.	5412.	-2.	0.	-7.	13.	0.	0.	0.	0.	-15.	-419.	-47.	0.	0.	-33.	0.	0.	0.	532.	0.	0.	-5947.1	5958.0	10.87					

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	BOD1	ALG	NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
417	-5412.	0.	5390.	7.	0.	-12.	13.	0.	0.	0.	0.	-14.	-418.	-47.	0.	0.	-33.	0.	0.	0.	532.	0.	0.	-5936.7	5942.3	5.65					
418	-5390.	0.	5361.	12.	0.	-15.	13.	0.	0.	0.	0.	-14.	-417.	-47.	0.	0.	-33.	0.	0.	0.	532.	0.	0.	-5915.8	5918.8	2.97					
419	-5361.	0.	5330.	15.	0.	-17.	13.	0.	0.	0.	0.	-13.	-417.	-47.	0.	0.	-33.	0.	0.	0.	531.	0.	0.	-5888.2	5889.8	1.62					
420	-5330.	0.	5297.	17.	0.	-18.	13.	0.	0.	0.	0.	-12.	-417.	-47.	0.	0.	-33.	0.	0.	0.	531.	0.	0.	-5857.0	5857.9	0.97					
421	-5297.	0.	5263.	18.	0.	-19.	13.	0.	0.	0.	0.	-11.	-417.	-47.	0.	0.	-33.	0.	0.	0.	530.	0.	0.	-5823.7	5824.4	0.66					
422	-5263.	0.	5228.	19.	0.	-19.	13.	0.	0.	0.	0.	-10.	-417.	-47.	0.	0.	-33.	0.	0.	0.	530.	0.	0.	-5789.3	5789.8	0.52					
423	-5228.	0.	5192.	19.	0.	-20.	13.	0.	0.	0.	0.	-9.	-417.	-47.	0.	0.	-33.	0.	0.	0.	530.	0.	0.	-5754.0	5754.5	0.47					
424	-5192.	0.	5156.	20.	0.	-21.	13.	0.	0.	0.	0.	-8.	-417.	-47.	0.	0.	-33.	0.	0.	0.	529.	0.	0.	-5718.1	5718.6	0.46					
425	-5156.	0.	5119.	21.	0.	-21.	13.	0.	0.	0.	0.	-7.	-417.	-48.	0.	0.	-33.	0.	0.	0.	529.	0.	0.	-5681.6	5682.1	0.48					
426	-5119.	0.	5082.	21.	0.	-22.	13.	0.	0.	0.	0.	-5.	-417.	-48.	0.	0.	-33.	0.	0.	0.	528.	0.	0.	-5644.5	5645.0	0.49					
427	-5082.	0.	5044.	22.	0.	-23.	13.	0.	0.	0.	0.	-4.	-417.	-48.	0.	0.	-33.	0.	0.	0.	528.	0.	0.	-5606.9	5607.4	0.52					
428	-5044.	0.	5006.	23.	0.	-23.	13.	0.	0.	0.	0.	-3.	-417.	-48.	0.	0.	-33.	0.	0.	0.	528.	0.	0.	-5568.7	5569.2	0.55					
429	-5006.	0.	4967.	23.	0.	-24.	13.	0.	0.	0.	0.	-2.	-417.	-48.	0.	0.	-33.	0.	0.	0.	527.	0.	0.	-5529.9	5530.4	0.58					
430	-4967.	0.	4927.	24.	0.	-25.	13.	0.	0.	0.	0.	0.	-417.	-48.	0.	0.	-33.	0.	0.	0.	527.	0.	0.	-5490.4	5491.0	0.60					
431	-4927.	0.	4886.	25.	0.	-26.	13.	0.	0.	0.	0.	1.	-417.	-48.	0.	0.	-33.	0.	0.	0.	526.	0.	0.	-5451.3	5452.0	0.64					
432	-4886.	0.	4845.	26.	0.	-26.	13.	0.	0.	0.	0.	2.	-418.	-48.	0.	0.	-33.	0.	0.	0.	526.	0.	0.	-5411.9	5412.6	0.67					
433	-4845.	0.	4804.	26.	0.	-27.	13.	0.	0.	0.	0.	4.	-418.	-49.	0.	0.	-33.	0.	0.	0.	525.	0.	0.	-5371.9	5372.6	0.70					
434	-4804.	0.	4761.	27.	0.	-28.	13.	0.	0.	0.	0.	5.	-418.	-49.	0.	0.	-33.	0.	0.	0.	525.	0.	0.	-5331.2	5331.9	0.73					
435	-4761.	0.	4717.	28.	0.	-29.	13.	0.	0.	0.	0.	7.	-418.	-49.	0.	0.	-33.	0.	0.	0.	525.	0.	0.	-5289.8	5290.5	0.76					
436	-4717.	0.	4673.	29.	0.	-30.	13.	0.	0.	0.	0.	8.	-418.	-49.	0.	0.	-33.	0.	0.	0.	524.	0.	0.	-5247.6	5248.4	0.79					
437	-4673.	0.	4628.	30.	0.	-31.	13.	0.	0.	0.	0.	10.	-418.	-49.	0.	0.	-33.	0.	0.	0.	524.	0.	0.	-5204.7	5205.5	0.82					
438	-4628.	0.	4582.	31.	0.	-32.	13.	0.	0.	0.	0.	12.	-418.	-49.	0.	0.	-33.	0.	0.	0.	523.	0.	0.	-5161.0	5161.9	0.85					
439	-4582.	0.	4535.	32.	0.	-33.	13.	0.	0.	0.	0.	14.	-419.	-49.	0.	0.	-33.	0.	0.	0.	523.	0.	0.	-5116.5	5117.4	0.87					
440	-4535.	0.	4488.	33.	0.	-34.	13.	0.	0.	0.	0.	15.	-419.	-50.	0.	0.	-33.	0.	0.	0.	523.	0.	0.	-5071.2	5072.1	0.89					
441	-4488.	0.	4439.	34.	0.	-35.	13.	0.	0.	0.	0.	17.	-419.	-50.	0.	0.	-33.	0.	0.	0.	522.	0.	0.	-5025.0	5026.0	0.90					
442	-4439.	0.	4389.	35.	0.	-36.	13.	0.	0.	0.	0.	19.	-420.	-50.	0.	0.	-33.	0.	0.	0.	522.	0.	0.	-4978.1	4979.0	0.91					
443	-4389.	0.	4339.	36.	0.	-37.	13.	0.	0.	0.	0.	21.	-420.	-50.	0.	0.	-33.	0.	0.	0.	521.	0.	0.	-4930.2	4931.1	0.91					
444	-4339.	0.	4288.	37.	0.	-39.	13.	0.	0.	0.	0.	23.	-421.	-50.	0.	0.	-33.	0.	0.	0.	521.	0.	0.	-4881.5	4882.4	0.90					
445	-4288.	0.	4235.	39.	0.	-40.	13.	0.	0.	0.	0.	25.	-421.	-50.	0.	0.	-33.	0.	0.	0.	521.	0.	0.	-4832.0	4832.8	0.87					
446	-4235.	0.	4182.	40.	0.	-41.	13.	0.	0.	0.	0.	27.	-422.	-50.	0.	0.	-33.	0.	0.	0.	520.	0.	0.	-4781.6	4782.4	0.83					
447	-4182.	0.	4128.	41.	0.	-42.	13.	0.	0.	0.	0.	30.	-423.	-51.	0.	0.	-33.	0.	0.	0.	520.	0.	0.	-4730.5	4731.2	0.77					
448	-4128.	0.	4073.	42.	0.	-42.	13.	0.	0.	0.	0.	32.	-424.	-51.	0.	0.	-33.	0.	0.	0.	519.	0.	0.	-4678.6	4679.3	0.68					
449	-4073.	0.	4018.	42.	0.	-43.	13.	0.	0.	0.	0.	34.	-426.	-51.	0.	0.	-33.	0.	0.	0.	519.	0.	0.	-4626.0	4626.6	0.57					
450	-4018.	0.	3962.	43.	0.	-44.	13.	0.	0.	0.	0.	37.	-427.	-51.	0.	0.	-33.	0.	0.	0.	518.	0.	0.	-4572.9	4573.3	0.42					
451	-3962.	0.	3905.	44.	0.	-44.	13.	0.	0.	0.	0.	39.	-429.	-51.	0.	0.	-33.	0.	0.	0.	518.	0.	0.	-4519.3	4519.5	0.23					
452	-3905.	0.	3849.	44.	0.	-45.	13.	0.	0.	0.	0.	41.	-431.	-51.	0.	0.	-33.	0.	0.	0.	518.	0.	0.	-4465.4	4465.4	-0.01					
453	-3849.	0.	3792.	45.	0.	-45.	13.	0.	0.	0.	0.	44.	-434.	-52.	0.	0.	-33.	0.	0.	0.	517.	0.	0.	-4411.3	4411.0	-0.32					
454	-3792.	0.	3736.	45.	0.	-44.	13.	0.	0.	0.	0.	46.	-437.	-52.	0.	0.	-33.	0.	0.	0.	517.	0.	0.	-4357.4	4356.7	-0.71					
455	-3736.	0.	3680.	44.	0.	-43.	13.	0.	0.	0.	0.	49.	-440.	-52.	0.	0.	-33.	0.	0.	0.	516.	0.	0.	-4304.0	4302.8	-1.18					
456	-3680.	0.	3626.	43.	0.	-42.	13.	0.	0.	0.	0.	51.	-444.	-52.	0.	0.	-33.	0.	0.	0.	516.	0.	0.	-4251.3	4249.5	-1.76					
457	-3626.	0.	3574.	42.	0.	-39.	13.	0.	0.	0.	0.	53.	-449.	-52.	0.	0.	-33.	0.	0.	0.	516.	0.	0.	-4199.9	4197.4	-2.47					
458	-3574.	0.	3524.	39.	0.	-36.	13.	0.	0.	0.	0.	55.	-455.	-52.	0.	0.	-33.	0.	0.	0.	515.	0.	0.	-4150.2	4146.9	-3.34					
459	-3524.	0.	3477.	36.	0.	-32.	13.	0.	0.	0.	0.	57.	-462.	-52.	0.	0.	-33.	0.	0.	0.	515.	0.	0.	-4103.1	4098.7	-4.41					
460	-3477.	0.	3435.	32.	0.	-26.	13.	0.	0.	0.	0.	59.	-470.	-52.	0.	0.	-33.	0.	0.	0.	514.	0.	0.	-4059.4	4053.7	-5.70					

461	-3435.	0.	3398.	26.	0.	-19.	13.	0.	0.	0.	0.	61.	-480.	-52.	0.	0.	-33.	0.	0.	0.	514.	0.	0.	-4020.0	4012.7	-7.26					
462	-3398.	0.	3369.	19.	0.	-10.	13.	0.	0.	0.	0.	62.	-492.	-52.	0.	0.	-33.	0.	0.	0.	514.	0.	0.	-3986.0	3976.9	-9.11					
463	-3369.	0.	3349.	10.	0.	1.	13.	0.	0.	0.	0.	62.	-506.	-53.	0.	0.	-33.	0.	0.	0.	513.	0.	0.	-3960.6	3949.2	-11.39					
464	-3349.	0.	3340.	-1.	0.	16.	13.	0.	0.	0.	0.	62.	-522.	-53.	0.	0.	-33.	0.	0.	0.	513.	0.	0.	-3958.3	3944.2	-14.16					
465	-3340.	0.	3346.	-16.	0.	34.	13.	0.	0.	0.	0.	61.	-542.	-53.	0.	0.	-33.	0.	0.	0.	512.	0.	0.	-3983.5	3966.0	-17.49					
466	-3346.	0.	3368.	-34.	0.	56.	13.	0.	0.	0.	0.	59.	-565.	-53.	0.	0.	-33.	0.	0.	0.	512.	0.	0.	-4029.8	4008.3	-21.50					
467	-3368.	0.	3410.	-56.	0.	83.	13.	0.	0.	2.	0.	56.	-592.	-53.	0.	0.	-33.	0.	0.	0.	511.	0.	0.	-4102.2	4075.7	-26.41					
468	-3410.	0.	3480.	-83.	0.	114.	13.	0.	0.	0.	0.	52.	-623.	-51.	0.	0.	-33.	0.	0.	0.	511.	0.	0.	-4199.7	4169.8	-29.88					
469	-3480.	0.	2612.	-114.	0.	351.	13.	0.	0.	1557.	-890.	46.	-660.	-50.	0.	0.	-33.	0.	0.	0.	511.	0.	0.	-5227.0	5089.5	-137.45					
470	-2612.	0.	2847.	-351.	0.	250.	13.	0.	0.	0.	0.	26.	-533.	-47.	0.	0.	-33.	0.	0.	0.	510.	0.	0.	-3575.2	3647.2	71.98					
471	-2847.	0.	3010.	-250.	0.	163.	13.	0.	0.	0.	0.	13.	-472.	-45.	0.	0.	-33.	0.	0.	0.	510.	0.	0.	-3647.2	3708.8	61.65					
472	-3010.	0.	3111.	-163.	0.	100.	13.	0.	0.	0.	0.	4.	-443.	-43.	0.	0.	-33.	0.	0.	0.	509.	0.	0.	-3692.7	3737.1	44.32					
473	-3111.	0.	3167.	-100.	0.	58.	13.	0.	0.	0.	0.	-2.	-430.	-42.	0.	0.	-33.	0.	0.	0.	509.	0.	0.	-3717.5	3746.8	29.32					
474	-3167.	0.	3193.	-58.	0.	31.	13.	0.	0.	0.	0.	-5.	-423.	-42.	0.	0.	-33.	0.	0.	0.	509.	0.	0.	-3727.6	3746.0	18.48					
475	-3193.	0.	3201.	-31.	0.	15.	13.	0.	0.	0.	0.	-7.	-420.	-42.	0.	0.	-33.	0.	0.	0.	508.	0.	0.	-3725.5	3736.8	11.29					

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WSLD OUT	WITH IN	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT
476	-3201.	0.	3197.	-15.	0.	5.	13.	0.	0.	0.	0.	-7.	-419.	-41.	0.	0.	-33.	0.	0.	0.	508.	0.	0.	-3715.8	3722.6	6.75
477	-3197.	0.	3186.	-5.	0.	-1.	13.	0.	0.	0.	0.	-8.	-418.	-41.	0.	0.	-33.	0.	0.	0.	507.	0.	0.	-3702.8	3706.7	3.97
478	-3186.	0.	3171.	1.	0.	-5.	13.	0.	0.	0.	0.	-8.	-418.	-41.	0.	0.	-33.	0.	0.	0.	507.	0.	0.	-3690.5	3692.8	2.30
479	-3171.	0.	3154.	5.	0.	-7.	13.	0.	0.	0.	0.	-7.	-418.	-41.	0.	0.	-33.	0.	0.	0.	507.	0.	0.	-3677.4	3678.7	1.32
480	-3154.	0.	3135.	7.	0.	-8.	13.	0.	0.	0.	0.	-7.	-418.	-41.	0.	0.	-33.	0.	0.	0.	506.	0.	0.	-3661.1	3661.8	0.73
481	-3135.	0.	3116.	8.	0.	-9.	13.	0.	0.	0.	0.	-6.	-418.	-41.	0.	0.	-33.	0.	0.	0.	506.	0.	0.	-3642.9	3643.3	0.39
482	-3116.	0.	3096.	9.	0.	-10.	13.	0.	0.	0.	0.	-6.	-418.	-41.	0.	0.	-33.	0.	0.	0.	505.	0.	0.	-3623.5	3623.7	0.17
483	-3096.	0.	3076.	10.	0.	-10.	13.	0.	0.	0.	0.	-5.	-418.	-41.	0.	0.	-33.	0.	0.	0.	505.	0.	0.	-3603.6	3603.6	0.04
484	-3076.	0.	3056.	10.	0.	-10.	13.	0.	0.	0.	0.	-5.	-419.	-41.	0.	0.	-33.	0.	0.	0.	504.	0.	0.	-3583.2	3583.1	-0.07
485	-3056.	0.	3035.	10.	0.	-10.	13.	0.	0.	0.	0.	-4.	-419.	-41.	0.	0.	-33.	0.	0.	0.	504.	0.	0.	-3562.7	3562.5	-0.16
486	-3035.	0.	3015.	10.	0.	-10.	13.	0.	0.	0.	0.	-4.	-420.	-41.	0.	0.	-33.	0.	0.	0.	504.	0.	0.	-3542.1	3541.8	-0.25
487	-3015.	0.	2995.	10.	0.	-9.	13.	0.	0.	0.	0.	-3.	-420.	-40.	0.	0.	-33.	0.	0.	0.	503.	0.	0.	-3521.5	3521.2	-0.36
488	-2995.	0.	2975.	9.	0.	-9.	13.	0.	0.	0.	0.	-3.	-421.	-40.	0.	0.	-33.	0.	0.	0.	503.	0.	0.	-3501.1	3500.6	-0.50
489	-2975.	0.	2956.	9.	0.	-8.	13.	0.	0.	0.	0.	-2.	-422.	-40.	0.	0.	-33.	0.	0.	0.	502.	0.	0.	-3481.0	3480.3	-0.67
490	-2956.	0.	2937.	8.	0.	-7.	13.	0.	0.	0.	0.	-2.	-423.	-40.	0.	0.	-33.	0.	0.	0.	502.	0.	0.	-3461.1	3460.3	-0.89
491	-2937.	0.	2919.	7.	0.	-5.	13.	0.	0.	0.	0.	-2.	-425.	-40.	0.	0.	-33.	0.	0.	0.	502.	0.	0.	-3441.8	3440.7	-1.16
492	-2919.	0.	2902.	5.	0.	-3.	13.	0.	0.	0.	0.	-1.	-427.	-40.	0.	0.	-33.	0.	0.	0.	501.	0.	0.	-3423.2	3421.7	-1.52
493	-2902.	0.	2791.	3.	0.	19.	13.	0.	0.	65.	0.	-1.	-429.	-40.	0.	0.	-33.	0.	0.	0.	501.	0.	0.	-3405.5	3391.9	-13.57
494	-2791.	0.	2789.	-19.	0.	10.	13.	0.	0.	0.	0.	-2.	-423.	-40.	0.	0.	-33.	0.	0.	0.	500.	0.	0.	-3307.8	3312.8	5.04
495	-2789.	0.	2781.	-10.	0.	4.	13.	0.	0.	0.	0.	-3.	-420.	-40.	0.	0.	-33.	0.	0.	0.	500.	0.	0.	-3294.7	3298.6	3.88
496	-2781.	0.	2770.	-4.	0.	-1.	13.	0.	0.	0.	0.	-3.	-419.	-39.	0.	0.	-33.	0.	0.	0.	499.	0.	0.	-3280.3	3283.0	2.73
497	-2770.	0.	2756.	1.	0.	-4.	13.	0.	0.	0.	0.	-3.	-418.	-39.	0.	0.	-33.	0.	0.	0.	499.	0.	0.	-3267.4	3269.2	1.83
498	-2756.	0.	2740.	4.	0.	-6.	13.	0.	0.	0.	0.	-3.	-418.	-39.	0.	0.	-33.	0.	0.	0.	499.	0.	0.	-3254.8	3256.0	1.20
499	-2740.	0.	2723.	6.	0.	-8.	13.	0.	0.	0.	0.	-2.	-417.	-39.	0.	0.	-33.	0.	0.	0.	498.	0.	0.	-3239.6	3240.4	0.79
500	-2723.	0.	2704.	8.	0.	-9.	13.	0.	0.	0.	0.	-2.	-417.	-39.	0.	0.	-33.	0.	0.	0.	498.	0.	0.	-3222.8	3223.3	0.54
501	-2704.	0.	2686.	9.	0.	-10.	13.	0.	0.	0.	0.	-1.	-417.	-39.	0.	0.	-33.	0.	0.	0.	497.	0.	0.	-3204.9	3205.2	0.38
502	-2686.	0.	2666.	10.	0.	-10.	13.	0.	0.	0.	0.	-1.	-417.	-39.	0.	0.	-33.	0.	0.	0.	497.	0.	0.	-3186.1	3186.4	0.30
503	-2666.	0.	2647.	10.	0.	-11.	13.	0.	0.	0.	0.	0.	-417.	-38.	0.	0.	-33.	0.	0.	0.	497.	0.	0.	-3166.9	3167.1	0.26
504	-2647.	0.	2627.	11.	0.	-12.	13.	0.	0.	0.	0.	0.	-417.	-38.	0.	0.	-33.	0.	0.	0.	496.	0.	0.	-3147.4	3147.6	0.24
505	-2627.	0.	2607.	12.	0.	-12.	13.	0.	0.	0.	0.	1.	-417.	-38.	0.	0.	-33.	0.	0.	0.	496.	0.	0.	-3128.0	3128.2	0.24
506	-2607.	0.	2586.	12.	0.	-13.	13.	0.	0.	0.	0.	2.	-418.	-38.	0.	0.	-33.	0.	0.	0.	495.	0.	0.	-3108.3	3108.6	0.25
507	-2586.	0.	2565.	13.	0.	-14.	13.	0.	0.	0.	0.	2.	-418.	-38.	0.	0.	-33.	0.	0.	0.	495.	0.	0.	-3088.4	3088.7	0.26

508	-2565.	0.	2544.	14.	0.	-14.	13.	0.	0.	0.	0.	3.	-418.	-38.	0.	0.	-33.	0.	0.	0.	495.	0.	0.	-3068.2	3068.5	0.28					
509	-2544.	0.	2523.	14.	0.	-15.	13.	0.	0.	0.	0.	4.	-418.	-37.	0.	0.	-33.	0.	0.	0.	494.	0.	0.	-3047.8	3048.1	0.29					
510	-2523.	0.	2501.	15.	0.	-16.	13.	0.	0.	0.	0.	5.	-418.	-37.	0.	0.	-33.	0.	0.	0.	494.	0.	0.	-3027.1	3027.4	0.29					
511	-2501.	0.	2479.	16.	0.	-17.	13.	0.	0.	0.	0.	5.	-419.	-37.	0.	0.	-33.	0.	0.	0.	493.	0.	0.	-3006.2	3006.5	0.30					
512	-2479.	0.	2456.	17.	0.	-17.	13.	0.	0.	0.	0.	6.	-419.	-37.	0.	0.	-33.	0.	0.	0.	493.	0.	0.	-2984.9	2985.2	0.29					
513	-2456.	0.	2433.	17.	0.	-18.	13.	0.	0.	0.	0.	7.	-419.	-37.	0.	0.	-33.	0.	0.	0.	492.	0.	0.	-2963.4	2963.7	0.26					
514	-2433.	0.	2410.	18.	0.	-19.	13.	0.	0.	0.	0.	8.	-420.	-36.	0.	0.	-33.	0.	0.	0.	492.	0.	0.	-2941.7	2941.9	0.22					
515	-2410.	0.	2387.	19.	0.	-19.	13.	0.	0.	0.	0.	9.	-421.	-36.	0.	0.	-33.	0.	0.	0.	492.	0.	0.	-2919.6	2919.8	0.14					
516	-2387.	0.	2363.	19.	0.	-20.	13.	0.	0.	0.	0.	10.	-422.	-36.	0.	0.	-33.	0.	0.	0.	491.	0.	0.	-2897.3	2897.4	0.03					
517	-2363.	0.	2340.	20.	0.	-20.	13.	0.	0.	0.	0.	11.	-423.	-36.	0.	0.	-33.	0.	0.	0.	491.	0.	0.	-2874.9	2874.7	-0.13					
518	-2340.	0.	2316.	20.	0.	-19.	13.	0.	0.	0.	0.	13.	-425.	-35.	0.	0.	-33.	0.	0.	0.	490.	0.	0.	-2852.3	2851.9	-0.36					
519	-2316.	0.	2293.	19.	0.	-18.	13.	0.	0.	0.	0.	14.	-427.	-35.	0.	0.	-33.	0.	0.	0.	490.	0.	0.	-2829.7	2829.0	-0.68					
520	-2293.	0.	2270.	18.	0.	-16.	13.	0.	0.	0.	0.	15.	-430.	-35.	0.	0.	-33.	0.	0.	0.	490.	0.	0.	-2807.2	2806.1	-1.12					
521	-2270.	0.	2249.	16.	0.	-13.	13.	0.	0.	0.	0.	15.	-433.	-35.	0.	0.	-33.	0.	0.	0.	489.	0.	0.	-2785.0	2783.3	-1.70					
522	-2249.	0.	2229.	13.	0.	-9.	13.	0.	0.	0.	0.	16.	-438.	-34.	0.	0.	-33.	0.	0.	0.	489.	0.	0.	-2763.4	2760.9	-2.49					
523	-2229.	0.	2212.	9.	0.	-2.	13.	0.	0.	0.	0.	17.	-444.	-34.	0.	0.	-33.	0.	0.	0.	488.	0.	0.	-2742.7	2739.1	-3.55					
524	-2212.	0.	2198.	2.	0.	7.	13.	0.	0.	0.	0.	17.	-451.	-34.	0.	0.	-33.	0.	0.	0.	488.	0.	0.	-2730.5	2725.5	-4.95					
525	-2198.	0.	1879.	-7.	0.	78.	13.	0.	0.	227.	0.	16.	-461.	-34.	0.	0.	-33.	0.	0.	0.	487.	0.	0.	-2733.3	2702.1	-31.19					
526	-1879.	0.	1901.	-78.	0.	59.	13.	0.	0.	0.	0.	12.	-440.	-32.	0.	0.	-33.	0.	0.	0.	487.	0.	0.	-2463.2	2472.1	8.89					
527	-1901.	0.	1914.	-59.	0.	39.	13.	0.	0.	0.	0.	9.	-430.	-31.	0.	0.	-33.	0.	0.	0.	487.	0.	0.	-2453.2	2461.9	8.63					
528	-1914.	0.	1918.	-39.	0.	23.	13.	0.	0.	0.	0.	7.	-424.	-30.	0.	0.	-33.	0.	0.	0.	486.	0.	0.	-2439.8	2447.0	7.15					
529	-1918.	0.	1915.	-23.	0.	10.	13.	0.	0.	0.	0.	5.	-421.	-29.	0.	0.	-33.	0.	0.	0.	486.	0.	0.	-2423.6	2429.2	5.57					
530	-1915.	0.	1906.	-10.	0.	0.	13.	0.	0.	0.	0.	5.	-419.	-28.	0.	0.	-33.	0.	0.	0.	485.	0.	0.	-2405.1	2409.3	4.25					
531	-1906.	0.	1892.	0.	0.	-8.	13.	0.	0.	0.	0.	5.	-418.	-27.	0.	0.	-33.	0.	0.	0.	485.	0.	0.	-2392.4	2395.7	3.29					
532	-1892.	0.	1876.	8.	0.	-14.	13.	0.	0.	0.	0.	5.	-418.	-27.	0.	0.	-33.	0.	0.	0.	485.	0.	0.	-2384.4	2387.0	2.63					
533	-1876.	0.	1857.	14.	0.	-20.	13.	0.	0.	0.	0.	6.	-418.	-26.	0.	0.	-33.	0.	0.	0.	484.	0.	0.	-2372.3	2374.5	2.22					
534	-1857.	0.	1835.	20.	0.	-25.	13.	0.	0.	0.	0.	7.	-418.	-25.	0.	0.	-33.	0.	0.	0.	484.	0.	0.	-2357.3	2359.3	2.00					

DISSOLVED OXYGEN LOADING FOR REACH 1: ICWW

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE IN	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM DECA	SOD BKGD	SOD BOD1	SOD ALG	SOD NCM	ALG PHOT	ALG RESP	MAC PHOT	TOT OUT	TOT IN	
535	-1835.	0.	1812.	25.	0.	-30.	13.	0.	0.	0.	0.	9.	-418.	-24.	0.	0.	-33.	0.	0.	0.	483.	0.	0.	-2339.9	2341.8	1.92
536	-1812.	0.	1786.	30.	0.	-35.	13.	0.	0.	0.	0.	10.	-418.	-23.	0.	0.	-33.	0.	0.	0.	483.	0.	0.	-2320.7	2322.7	1.93
537	-1786.	0.	1759.	35.	0.	-40.	13.	0.	0.	0.	0.	12.	-418.	-22.	0.	0.	-33.	0.	0.	0.	482.	0.	0.	-2300.0	2302.0	2.01
538	-1759.	0.	1730.	40.	0.	-46.	13.	0.	0.	0.	0.	14.	-418.	-21.	0.	0.	-33.	0.	0.	0.	482.	0.	0.	-2277.8	2279.9	2.14
539	-1730.	0.	1699.	46.	0.	-52.	13.	0.	0.	0.	0.	17.	-418.	-21.	0.	0.	-33.	0.	0.	0.	482.	0.	0.	-2254.2	2256.5	2.31
540	-1699.	0.	1665.	52.	0.	-59.	13.	0.	0.	0.	0.	20.	-418.	-20.	0.	0.	-33.	0.	0.	0.	481.	0.	0.	-2229.2	2231.7	2.49
541	-1665.	0.	2440.	59.	0.	-58.	13.	0.	0.	0.	-810.	23.	-419.	-19.	0.	0.	-33.	0.	0.	0.	481.	0.	0.	-3004.6	3015.4	10.85
542	-2440.	0.	2393.	58.	0.	-59.	13.	0.	0.	0.	0.	26.	-419.	-18.	0.	0.	-33.	0.	0.	0.	480.	0.	0.	-2970.2	2970.8	0.65
543	-2393.	0.	2346.	59.	0.	-62.	13.	0.	0.	0.	0.	29.	-420.	-18.	0.	0.	-33.	0.	0.	0.	480.	0.	0.	-2926.7	2928.1	1.42
544	-2346.	0.	2298.	62.	0.	-66.	13.	0.	0.	0.	0.	33.	-421.	-18.	0.	0.	-33.	0.	0.	0.	480.	0.	0.	-2883.8	2885.7	1.83
545	-2298.	0.	2248.	66.	0.	-69.	13.	0.	0.	0.	0.	36.	-422.	-18.	0.	0.	-33.	0.	0.	0.	479.	0.	0.	-2840.5	2842.5	2.00
546	-2248.	0.	2196.	69.	0.	-73.	13.	0.	0.	0.	0.	40.	-423.	-18.	0.	0.	-33.	0.	0.	0.	479.	0.	0.	-2796.0	2798.0	1.99
547	-2196.	0.	2143.	73.	0.	-77.	13.	0.	0.	0.	0.	44.	-425.	-19.	0.	0.	-33.	0.	0.	0.	478.	0.	0.	-2750.1	2751.9	1.80
548	-2143.	0.	2088.	77.	0.	-80.	13.	0.	0.	0.	0.	48.	-427.	-20.	0.	0.	-33.	0.	0.	0.	478.	0.	0.	-2702.7	2704.1	1.42
549	-2088.	0.	2032.	80.	0.	-82.	13.	0.	0.	0.	0.	53.	-429.	-22.	0.	0.	-33.	0.	0.	0.	477.	0.	0.	-2653.9	2654.7	0.82
550	-2032.	0.	1975.	82.	0.	-82.	13.	0.	0.	0.	0.	57.	-433.	-24.	0.	0.	-33.	0.	0.	0.	477.	0.	0.	-2603.7	2603.7	-0.04
551	-1975.	0.	1918.	82.	0.	-80.	13.	0.	0.	0.	0.	62.	-437.	-28.	0.	0.	-33.	0.	0.	0.	477.	0.	0.	-2552.8	2551.5	-1.28
552	-1918.	0.	1863.	80.	0.	-75.	13.	0.	0.	0.	0.	66.	-442.	-32.	0.	0.	-33.	0.	0.	0.	476.	0.	0.	-2501.6	2498.6	-3.00
553	-1863.	0.	1811.	75.	0.	-66.	13.	0.	0.	0.	0.	70.	-449.	-39.	0.	0.	-33.	0.	0.	0.	476.	0.	0.	-2450.8	2445.5	-5.34
554	-1811.	0.	1765.	66.	0.	-51.	13.	0.	0.	0.	0.	74.	-458.	-48.	0.	0.	-33.	0.	0.	0.	475.	0.	0.	-2401.6	2393.1	-8.48

555	-1765.	0.	1727.	51.	0.	-29.	13.	0.	0.	0.	0.	77.	-470.	-59.	0.	0.	-33.	0.	0.	0.	475.	0.	0.	-2355.5	2342.8	-12.69					
556	-1727.	0.	1702.	29.	0.	6.	13.	0.	0.	0.	0.	78.	-484.	-75.	0.	0.	-33.	0.	0.	0.	475.	0.	0.	-2319.2	2301.9	-17.29					
DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Black																															
IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT							
225	1980.	0.	-1992.	0.	0.	6.	2.	0.	0.	0.	0.	97.	-202.	-103.	0.	0.	-42.	0.	0.	0.	255.	0.	0.	-2339.7	2339.8	0.09					
226	1992.	0.	-2035.	-6.	0.	10.	2.	0.	0.	0.	0.	93.	-178.	-90.	0.	0.	-42.	0.	0.	0.	255.	0.	0.	-2351.3	2351.3	0.07					
227	2035.	0.	-2101.	-10.	0.	13.	2.	0.	0.	0.	0.	86.	-156.	-80.	0.	0.	-42.	0.	0.	0.	255.	0.	0.	-2389.5	2389.5	0.04					
228	2101.	0.	-2185.	-13.	0.	15.	2.	0.	0.	0.	0.	77.	-138.	-72.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-2448.8	2448.8	0.02					
229	2185.	0.	-2281.	-15.	0.	16.	2.	0.	0.	0.	0.	67.	-121.	-65.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-2523.7	2523.7	0.00					
230	2281.	0.	-2386.	-16.	0.	17.	2.	0.	0.	0.	0.	56.	-107.	-59.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-2609.7	2609.7	-0.01					
231	2386.	0.	-2496.	-17.	0.	17.	2.	0.	0.	0.	0.	44.	-95.	-54.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-2703.2	2703.2	-0.02					
232	2496.	0.	-2608.	-17.	0.	17.	2.	0.	0.	0.	0.	32.	-84.	-50.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-2801.4	2801.4	-0.03					
233	2608.	0.	-2722.	-17.	0.	17.	2.	0.	0.	0.	0.	20.	-75.	-46.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-2902.0	2901.9	-0.04					
234	2722.	0.	-2834.	-17.	0.	17.	2.	0.	0.	0.	0.	9.	-66.	-43.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-3003.1	3003.1	-0.05					
235	2834.	0.	-2945.	-17.	0.	16.	2.	0.	0.	0.	0.	-3.	-59.	-41.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-3106.5	3106.4	-0.05					
236	2945.	0.	-3052.	-16.	0.	16.	2.	0.	0.	0.	0.	-14.	-53.	-39.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-3216.2	3216.2	-0.05					
237	3052.	0.	-3156.	-16.	0.	15.	2.	0.	0.	0.	0.	-25.	-47.	-37.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-3323.0	3322.9	-0.06					
238	3156.	0.	-3256.	-15.	0.	14.	2.	0.	0.	0.	0.	-35.	-43.	-35.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-3426.0	3426.0	-0.05					
239	3256.	0.	-3351.	-14.	0.	14.	2.	0.	0.	0.	0.	-45.	-38.	-34.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-3525.0	3525.0	-0.05					
240	3351.	0.	-3442.	-14.	0.	13.	2.	0.	0.	0.	0.	-55.	-35.	-33.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-3619.6	3619.6	-0.05					
241	3442.	0.	-3528.	-13.	0.	12.	2.	0.	0.	0.	0.	-63.	-32.	-32.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-3709.7	3709.6	-0.05					
242	3528.	0.	-3610.	-12.	0.	11.	2.	0.	0.	0.	0.	-72.	-29.	-31.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-3795.1	3795.0	-0.04					
243	3610.	0.	-3686.	-11.	0.	11.	2.	0.	0.	0.	0.	-80.	-26.	-30.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-3875.8	3875.7	-0.04					
244	3686.	0.	-3759.	-11.	0.	10.	2.	0.	0.	0.	0.	-87.	-24.	-29.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-3951.9	3951.9	-0.04					
245	3759.	0.	-3827.	-10.	0.	9.	2.	0.	0.	0.	0.	-94.	-23.	-29.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-4023.5	4023.5	-0.04					
246	3827.	0.	-3891.	-9.	0.	9.	2.	0.	0.	0.	0.	-100.	-21.	-28.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-4090.8	4090.8	-0.04					
247	3891.	0.	-3950.	-9.	0.	8.	2.	0.	0.	0.	0.	-106.	-19.	-27.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-4153.8	4153.8	-0.04					
248	3950.	0.	-4005.	-8.	0.	6.	2.	0.	0.	0.	0.	-112.	-18.	-27.	0.	0.	-42.	0.	0.	0.	254.	0.	0.	-4211.9	4211.9	-0.04					
249	4005.	0.	-4051.	-6.	0.	-2.	2.	0.	0.	0.	0.	-116.	-17.	-27.	0.	0.	-42.	0.	0.	0.	253.	0.	0.	-4260.5	4260.4	-0.04					
250	4051.	0.	-4032.	2.	0.	0.	1.	0.	0.	0.	0.	-18.	-1.	-1.	0.	0.	-12.	0.	0.	0.	10.	0.	0.	-4063.9	4063.9	0.00					
251	4032.	0.	-4013.	0.	0.	0.	1.	0.	0.	0.	0.	-18.	-1.	-1.	0.	0.	-12.	0.	0.	0.	11.	0.	0.	-4044.4	4044.4	0.00					
252	4013.	0.	-3994.	0.	0.	0.	1.	0.	0.	0.	0.	-17.	-1.	-1.	0.	0.	-12.	0.	0.	0.	11.	0.	0.	-4025.4	4025.4	0.00					
253	3994.	0.	-3976.	0.	0.	0.	1.	0.	0.	0.	0.	-17.	-1.	-1.	0.	0.	-12.	0.	0.	0.	11.	0.	0.	-4007.1	4007.1	0.00					
254	3976.	0.	-3959.	0.	0.	0.	1.	0.	0.	0.	0.	-17.	-1.	-1.	0.	0.	-12.	0.	0.	0.	12.	0.	0.	-3989.2	3989.2	0.00					
255	3959.	0.	-3942.	0.	0.	0.	1.	0.	0.	0.	0.	-16.	-1.	-1.	0.	0.	-12.	0.	0.	0.	12.	0.	0.	-3971.9	3971.9	0.00					
256	3942.	0.	-3925.	0.	0.	0.	1.	0.	0.	0.	0.	-16.	-1.	-1.	0.	0.	-12.	0.	0.	0.	12.	0.	0.	-3955.1	3955.1	0.00					
257	3925.	0.	-3909.	0.	0.	0.	1.	0.	0.	0.	0.	-16.	-1.	-1.	0.	0.	-12.	0.	0.	0.	13.	0.	0.	-3938.8	3938.8	0.00					
258	3909.	0.	-3893.	0.	0.	0.	1.	0.	0.	0.	0.	-15.	-2.	-1.	0.	0.	-12.	0.	0.	0.	13.	0.	0.	-3923.0	3923.0	0.00					
259	3893.	0.	-3878.	0.	0.	0.	1.	0.	0.	0.	0.	-15.	-2.	-1.	0.	0.	-12.	0.	0.	0.	13.	0.	0.	-3907.7	3907.7	0.00					
260	3878.	0.	-3864.	0.	0.	0.	1.	0.	0.	0.	0.	-15.	-2.	-1.	0.	0.	-12.	0.	0.	0.	13.	0.	0.	-3893.0	3893.0	0.00					
261	3864.	0.	-3850.	0.	0.	0.	1.	0.	0.	0.	0.	-15.	-2.	-1.	0.	0.	-12.	0.	0.	0.	14.	0.	0.	-3878.7	3878.7	0.00					
262	3850.	0.	-3836.	0.	0.	0.	1.	0.	0.	0.	0.	-14.	-2.	-1.	0.	0.	-12.	0.	0.	0.	14.	0.	0.	-3864.8	3864.8	0.00					
263	3836.	0.	-3823.	0.	0.	0.	1.	0.	0.	0.	0.	-14.	-2.	-1.	0.	0.	-12.	0.	0.	0.	14.	0.	0.	-3851.4	3851.4	0.00					
264	3823.	0.	-3810.	0.	0.	0.	1.	0.	0.	0.	0.	-14.	-2.	-1.	0.	0.	-12.	0.	0.	0.	15.	0.	0.	-3838.5	3838.5	0.00					
265	3810.	0.	-3798.	0.	0.	0.	1.	0.	0.	0.	0.	-14.	-2.	-1.	0.	0.	-12.	0.	0.	0.	15.	0.	0.	-3826.0	3826.0	0.00					
266	3798.	0.	-3786.	0.	0.	0.	1.	0.	0.	0.	0.	-13.	-2.	-1.	0.	0.	-12.	0.	0.	0.	15.	0.	0.	-3814.0	3814.0	0.00					
267	3786.	0.	-3774.	0.	0.	0.	1.	0.	0.	0.	0.	-13.	-2.	-1.	0.	0.	-12.	0.	0.	0.	15.	0.	0.	-3802.4	3802.4	0.00					
268	3774.	0.	-3763.	0.	0.	0.	1.	0.	0.	0.	0.	-13.	-2.	-1.	0.	0.	-12.	0.	0.	0.	16.	0.	0.	-3791.2	3791.2	0.00					
269	3763.	0.	-3753.	0.	0.	0.	1.	0.	0.	0.	0.	-13.	-3.	-1.	0.	0.	-12.	0.	0.	0.	16.	0.	0.	-3780.5	3780.5	0.00					

270	3753.	0.	-3742.	0.	0.	0.	1.	0.	0.	0.	0.	-12.	-3.	-1.	0.	0.	-12.	0.	0.	0.	16.	0.	0.	-3770.1	3770.1	0.00			
271	3742.	0.	-3733.	0.	0.	0.	1.	0.	0.	0.	0.	-12.	-3.	-1.	0.	0.	-12.	0.	0.	0.	17.	0.	0.	-3760.2	3760.2	0.00			
272	3733.	0.	-3723.	0.	0.	0.	1.	0.	0.	0.	0.	-12.	-3.	-1.	0.	0.	-12.	0.	0.	0.	17.	0.	0.	-3750.7	3750.7	0.00			
273	3723.	0.	-3714.	0.	0.	0.	1.	0.	0.	0.	0.	-12.	-3.	-1.	0.	0.	-12.	0.	0.	0.	17.	0.	0.	-3741.6	3741.6	0.00			
274	3714.	0.	-3706.	0.	0.	0.	1.	0.	0.	0.	0.	-12.	-3.	-1.	0.	0.	-12.	0.	0.	0.	17.	0.	0.	-3732.9	3732.9	0.00			
275	3706.	0.	-3697.	0.	0.	0.	1.	0.	0.	0.	0.	-11.	-3.	-1.	0.	0.	-12.	0.	0.	0.	18.	0.	0.	-3724.5	3724.5	0.00			
276	3697.	0.	-3689.	0.	0.	0.	1.	0.	0.	0.	0.	-11.	-3.	-1.	0.	0.	-12.	0.	0.	0.	18.	0.	0.	-3716.6	3716.6	0.00			
277	3689.	0.	-3682.	0.	0.	0.	1.	0.	0.	0.	0.	-11.	-3.	-1.	0.	0.	-12.	0.	0.	0.	18.	0.	0.	-3709.0	3709.0	0.00			
278	3682.	0.	-3675.	0.	0.	0.	1.	0.	0.	1.	0.	-11.	-3.	-1.	0.	0.	-12.	0.	0.	0.	19.	0.	0.	-3702.6	3702.6	0.00			
279	3675.	0.	-3669.	0.	0.	0.	1.	0.	0.	0.	0.	-11.	-3.	-1.	0.	0.	-12.	0.	0.	0.	19.	0.	0.	-3695.7	3695.7	0.00			
280	3669.	0.	-3662.	0.	0.	0.	1.	0.	0.	0.	0.	-11.	-4.	-1.	0.	0.	-12.	0.	0.	0.	19.	0.	0.	-3689.1	3689.1	0.00			
281	3662.	0.	-3656.	0.	0.	0.	1.	0.	0.	0.	0.	-11.	-4.	-1.	0.	0.	-12.	0.	0.	0.	20.	0.	0.	-3682.8	3682.8	0.00			
282	3656.	0.	-3650.	0.	0.	0.	1.	0.	0.	0.	0.	-10.	-4.	-1.	0.	0.	-12.	0.	0.	0.	20.	0.	0.	-3677.0	3677.0	0.00			
283	3650.	0.	-3645.	0.	0.	0.	1.	0.	0.	0.	0.	-10.	-4.	-1.	0.	0.	-12.	0.	0.	0.	20.	0.	0.	-3671.4	3671.4	0.00			

DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Black

IOR	UPMN ADV	UPTR ADV	ADV	LOWR DISP	UPMN DISP	UPTR DISP	LOWR IN	INCR OUT	INCR IN	NONP IN	WSLD OUT	WITH DECA	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	BOD1	ALG	NCM	SOD PHOT	SOD RESP	SOD PHOT	SOD	ALG OUT	ALG IN	MAC	TOT	TOT
284	3645.	0.	-3639.	0.	0.	0.	1.	0.	0.	0.	0.	-10.	-4.	-1.	0.	0.	-12.	0.	0.	0.	20.	0.	0.	-3666.2	3666.2	0.00			
285	3639.	0.	-3623.	0.	0.	0.	1.	0.	0.	0.	0.	-10.	-4.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-3660.4	3660.4	0.00			
286	3623.	0.	-3607.	0.	0.	0.	1.	0.	0.	0.	0.	-10.	-4.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-3644.2	3644.2	0.00			
287	3607.	0.	-3592.	0.	0.	0.	1.	0.	0.	0.	0.	-9.	-4.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-3628.2	3628.2	0.00			
288	3592.	0.	-3576.	0.	0.	0.	1.	0.	0.	0.	0.	-9.	-4.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-3612.4	3612.4	0.00			
289	3576.	0.	-3561.	0.	0.	0.	1.	0.	0.	0.	0.	-9.	-5.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-3596.7	3596.7	0.00			
290	3561.	0.	-3545.	0.	0.	0.	1.	0.	0.	0.	0.	-9.	-5.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-3581.2	3581.2	0.00			
291	3545.	0.	-3530.	0.	0.	0.	1.	0.	0.	0.	0.	-8.	-5.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-3565.8	3565.8	0.00			
292	3530.	0.	-3516.	0.	0.	0.	1.	0.	0.	1.	0.	-8.	-5.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-3551.6	3551.6	0.00			
293	3516.	0.	-3501.	0.	0.	0.	1.	0.	0.	0.	0.	-8.	-5.	-1.	0.	0.	-22.	0.	0.	0.	20.	0.	0.	-3536.4	3536.4	0.00			
294	3501.	0.	-3486.	0.	0.	0.	1.	0.	0.	0.	0.	-7.	-5.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-3521.4	3521.4	0.00			
295	3486.	0.	-3472.	0.	0.	0.	1.	0.	0.	0.	0.	-7.	-5.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-3506.5	3506.5	0.00			
296	3472.	0.	-3457.	0.	0.	0.	1.	0.	0.	0.	0.	-7.	-5.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-3491.8	3491.8	0.00			
297	3457.	0.	-3443.	0.	0.	0.	1.	0.	0.	0.	0.	-7.	-5.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-3477.2	3477.2	0.00			
298	3443.	0.	-3429.	0.	0.	0.	1.	0.	0.	0.	0.	-6.	-5.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-3462.7	3462.7	0.00			
299	3429.	0.	-3415.	0.	0.	0.	1.	0.	0.	0.	0.	-6.	-5.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-3448.4	3448.4	0.00			
300	3415.	0.	-3401.	0.	0.	0.	1.	0.	0.	0.	0.	-6.	-5.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-3434.2	3434.2	0.00			
301	3401.	0.	-3387.	0.	0.	0.	1.	0.	0.	0.	0.	-6.	-5.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-3420.1	3420.1	0.00			
302	3387.	0.	-3373.	0.	0.	0.	1.	0.	0.	0.	0.	-5.	-5.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-3406.2	3406.2	0.00			
303	3373.	0.	-3359.	0.	0.	0.	1.	0.	0.	0.	0.	-5.	-5.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-3392.4	3392.4	0.00			
304	3359.	0.	-3346.	0.	0.	0.	1.	0.	0.	0.	0.	-5.	-5.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-3378.7	3378.7	0.00			
305	3346.	0.	-3333.	0.	0.	0.	1.	0.	0.	0.	0.	-5.	-5.	-1.	0.	0.	-22.	0.	0.	0.	19.	0.	0.	-3365.1	3365.1	0.00			
306	3333.	0.	-3319.	0.	0.	0.	1.	0.	0.	0.	0.	-5.	-5.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-3351.7	3351.7	0.00			
307	3319.	0.	-3306.	0.	0.	0.	1.	0.	0.	0.	0.	-4.	-5.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-3338.4	3338.4	0.00			
308	3306.	0.	-3293.	0.	0.	0.	1.	0.	0.	0.	0.	-4.	-5.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-3325.2	3325.2	0.00			
309	3293.	0.	-3281.	0.	0.	0.	1.	0.	0.	0.	0.	-4.	-5.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-3312.2	3312.2	0.00			
310	3281.	0.	-3268.	0.	0.	0.	1.	0.	0.	0.	0.	-4.	-5.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-3299.2	3299.2	0.00			
311	3268.	0.	-3255.	0.	0.	0.	1.	0.	0.	0.	0.	-3.	-5.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-3286.4	3286.4	0.00			
312	3255.	0.	-3243.	0.	0.	0.	1.	0.	0.	0.	0.	-3.	-5.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-3274.0	3274.0	0.00			
313	3243.	0.	-3230.	0.	0.	0.	1.	0.	0.	0.	0.	-3.	-5.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-3261.3	3261.3	0.00			
314	3230.	0.	-3218.	0.	0.	0.	1.	0.	0.	0.	0.	-3.	-5.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-3248.8	3248.8	0.00			
315	3218.	0.	-3206.	0.	0.	0.	1.	0.	0.	0.	0.	-3.	-5.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-3236.3	3236.3	0.00			
316	3206.	0.	-3194.	0.	0.	0.	1.	0.	0.	0.	0.	-2.	-5.	-1.	0.	0.	-22.	0.	0.	0.	18.	0.	0.	-3223.9	3223.9	0.00			

317	3194.	0.	-3182.	0.	0.	0.	1.	0.	0.	0.	0.	-2.	-5.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-3211.7	3211.7	0.00			
318	3182.	0.	-3170.	0.	0.	0.	1.	0.	0.	0.	0.	-2.	-5.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-3199.6	3199.6	0.00			
319	3170.	0.	-3158.	0.	0.	0.	1.	0.	0.	0.	0.	-2.	-5.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-3187.5	3187.5	0.00			
320	3158.	0.	-3146.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	-5.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-3175.6	3175.6	0.00			
321	3146.	0.	-3134.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	-5.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-3163.7	3163.7	0.00			
322	3134.	0.	-3123.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	-5.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-3152.0	3152.0	0.00			
323	3123.	0.	-3111.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	-5.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-3140.3	3140.3	0.00			
324	3111.	0.	-3100.	0.	0.	0.	1.	0.	0.	0.	0.	-1.	-5.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-3128.8	3128.8	0.00			
325	3100.	0.	-3089.	0.	0.	0.	1.	0.	0.	0.	0.	0.	-6.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-3117.3	3117.3	0.00			
326	3089.	0.	-3077.	0.	0.	0.	1.	0.	0.	0.	0.	0.	-6.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-3105.9	3105.9	0.00			
327	3077.	0.	-3066.	0.	0.	0.	1.	0.	0.	0.	0.	0.	-6.	-1.	0.	0.	-22.	0.	0.	0.	17.	0.	0.	-3094.6	3094.6	0.00			
328	3066.	0.	-3055.	0.	0.	0.	1.	0.	0.	0.	0.	0.	-6.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-3083.6	3083.6	0.00			
329	3055.	0.	-3044.	0.	0.	0.	1.	0.	0.	0.	0.	0.	-6.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-3072.7	3072.7	0.00			
330	3044.	0.	-3034.	0.	0.	0.	1.	0.	0.	0.	0.	1.	-6.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-3061.8	3061.8	0.00			
331	3034.	0.	-3023.	0.	0.	0.	1.	0.	0.	0.	0.	1.	-6.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-3051.2	3051.2	0.00			
332	3023.	0.	-3012.	0.	0.	0.	1.	0.	0.	0.	0.	1.	-6.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-3040.5	3040.5	0.00			
333	3012.	0.	-3002.	0.	0.	0.	1.	0.	0.	0.	0.	1.	-6.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-3029.9	3029.9	0.00			
334	3002.	0.	-2991.	0.	0.	0.	1.	0.	0.	0.	0.	1.	-6.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-3019.4	3019.4	0.00			
335	2991.	0.	-2980.	0.	0.	0.	1.	0.	0.	0.	0.	1.	-6.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-3008.9	3008.9	0.00			
336	2980.	0.	-2970.	0.	0.	0.	1.	0.	0.	0.	0.	2.	-6.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-2998.5	2998.5	0.00			
337	2970.	0.	-2960.	0.	0.	0.	1.	0.	0.	0.	0.	2.	-6.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-2988.2	2988.2	0.00			
338	2960.	0.	-2950.	0.	0.	0.	1.	0.	0.	0.	0.	2.	-6.	-1.	0.	0.	-22.	0.	0.	0.	16.	0.	0.	-2978.0	2978.0	0.00			
339	2950.	0.	-2940.	0.	0.	0.	1.	0.	0.	0.	0.	2.	-6.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-2968.1	2968.1	0.00			
340	2940.	0.	-2929.	0.	0.	0.	1.	0.	0.	0.	0.	2.	-6.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-2958.0	2958.0	0.00			
341	2929.	0.	-2919.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-6.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-2947.9	2947.9	0.00			
342	2919.	0.	-2909.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-6.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-2937.9	2937.9	0.00			

DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Black

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT	
343	2909.	0.	-2899.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-6.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-2928.0	2928.0	0.00
344	2899.	0.	-2890.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-6.	-1.	0.	0.	-22.	0.	0.	0.	15.	0.	0.	-2918.2	2918.2	0.00
345	2890.	0.	-2880.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-6.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-2908.4	2908.4	0.00
346	2880.	0.	-2870.	0.	0.	0.	1.	0.	0.	0.	0.	3.	-6.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-2898.7	2898.7	0.00
347	2870.	0.	-2860.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-6.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-2889.1	2889.1	0.00
348	2860.	0.	-2851.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-6.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-2879.5	2879.5	0.00
349	2851.	0.	-2841.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-6.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-2870.0	2870.0	0.00
350	2841.	0.	-2832.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-6.	-1.	0.	0.	-21.	0.	0.	0.	15.	0.	0.	-2860.6	2860.6	0.00
351	2832.	0.	-2822.	0.	0.	0.	1.	0.	0.	0.	0.	4.	-6.	-1.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-2851.2	2851.2	0.00
352	2822.	0.	-2819.	0.	0.	0.	1.	0.	0.	8.	0.	4.	-7.	-2.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-2849.6	2849.6	0.00
353	2819.	0.	-2808.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-7.	-2.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-2838.7	2838.7	0.00
354	2808.	0.	-2797.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-7.	-2.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-2827.9	2827.8	0.00
355	2797.	0.	-2787.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-7.	-2.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-2817.1	2817.1	0.00
356	2787.	0.	-2776.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-7.	-2.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-2806.5	2806.5	0.00
357	2776.	0.	-2766.	0.	0.	0.	1.	0.	0.	0.	0.	5.	-7.	-2.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-2796.0	2796.0	0.00
358	2766.	0.	-2755.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-7.	-2.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-2785.6	2785.6	0.00
359	2755.	0.	-2745.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-7.	-2.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-2775.2	2775.2	0.00
360	2745.	0.	-2735.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-7.	-2.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-2765.0	2765.0	0.00
361	2735.	0.	-2724.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-7.	-2.	0.	0.	-21.	0.	0.	0.	14.	0.	0.	-2754.8	2754.8	0.00
362	2724.	0.	-2714.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-7.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-2744.8	2744.7	0.00
363	2714.	0.	-2704.	0.	0.	0.	1.	0.	0.	0.	0.	6.	-7.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-2734.8	2734.8	0.00

364	2704.	0.	-2694.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-7.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-2724.9	2724.9	0.00				
365	2694.	0.	-2685.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-7.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-2715.0	2715.0	0.00				
366	2685.	0.	-2675.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-7.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-2705.3	2705.3	0.00				
367	2675.	0.	-2665.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-7.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-2695.6	2695.6	0.00				
368	2665.	0.	-2656.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-7.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-2686.0	2686.0	0.00				
369	2656.	0.	-2647.	0.	0.	0.	1.	0.	0.	1.	0.	7.	-7.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-2677.2	2677.2	0.00				
370	2647.	0.	-2637.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-7.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-2667.7	2667.7	0.00				
371	2637.	0.	-2628.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-7.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-2658.3	2658.3	0.00				
372	2628.	0.	-2619.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-7.	-2.	0.	0.	-21.	0.	0.	0.	13.	0.	0.	-2649.0	2649.0	0.00				
373	2619.	0.	-2824.	0.	0.	0.	1.	0.	0.	216.	0.	7.	-7.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-2854.7	2854.7	0.00				
374	2824.	0.	-2813.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-7.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-2843.7	2843.7	0.00				
375	2813.	0.	-2802.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-7.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-2832.7	2832.7	0.00				
376	2802.	0.	-2791.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-7.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-2821.9	2821.9	0.00				
377	2791.	0.	-2780.	0.	0.	0.	1.	0.	0.	0.	0.	7.	-7.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-2811.1	2811.1	0.00				
378	2780.	0.	-2769.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-8.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-2800.4	2800.4	0.00				
379	2769.	0.	-2759.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-8.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-2789.8	2789.8	0.00				
380	2759.	0.	-2748.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-8.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-2779.3	2779.3	0.00				
381	2748.	0.	-2738.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-8.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-2768.9	2768.9	0.00				
382	2738.	0.	-2728.	0.	0.	0.	1.	0.	0.	0.	0.	8.	-8.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-2758.6	2758.6	0.00				
383	2728.	0.	-2717.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-8.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-2748.3	2748.3	0.00				
384	2717.	0.	-2707.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-8.	-2.	0.	0.	-21.	0.	0.	0.	12.	0.	0.	-2738.2	2738.2	0.00				
385	2707.	0.	-2697.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-8.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-2728.1	2728.1	0.00				
386	2697.	0.	-2687.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-8.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-2718.1	2718.1	0.00				
387	2687.	0.	-2677.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-8.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-2708.1	2708.1	0.00				
388	2677.	0.	-2667.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-8.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-2698.3	2698.3	0.00				
389	2667.	0.	-2658.	0.	0.	0.	1.	0.	0.	0.	0.	9.	-8.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-2688.5	2688.5	0.00				
390	2658.	0.	-2648.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-8.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-2678.8	2678.8	0.00				
391	2648.	0.	-2638.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-8.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-2669.1	2669.1	0.00				
392	2638.	0.	-2629.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-8.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-2659.6	2659.6	0.00				
393	2629.	0.	-2619.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-8.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-2650.1	2650.1	0.00				
394	2619.	0.	-2610.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-8.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-2640.6	2640.6	0.00				
395	2610.	0.	-2600.	0.	0.	0.	1.	0.	0.	0.	0.	10.	-8.	-2.	0.	0.	-21.	0.	0.	0.	11.	0.	0.	-2631.3	2631.2	0.00				
396	2600.	0.	-2591.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-8.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-2622.0	2621.9	0.00				
397	2591.	0.	-2582.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-8.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-2612.7	2612.7	0.00				
398	2582.	0.	-2573.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-8.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-2603.5	2603.5	0.00				
399	2573.	0.	-2564.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-8.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-2594.4	2594.4	0.00				
400	2564.	0.	-2554.	0.	0.	0.	1.	0.	0.	0.	0.	11.	-8.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-2585.4	2585.4	0.00				
401	2554.	0.	-2760.	0.	0.	0.	1.	0.	0.	216.	0.	12.	-9.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-2792.9	2792.9	0.00				

DISSOLVED OXYGEN LOADING FOR REACH 2: Bayou Black

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT					
402	2760.	0.	-2751.	0.	0.	0.	1.	0.	0.	0.	12.	-9.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-2783.0	2783.0	0.00					
403	2751.	0.	-2740.	0.	0.	0.	1.	0.	0.	0.	12.	-9.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-2773.0	2773.0	0.00					
404	2740.	0.	-2731.	0.	0.	0.	1.	0.	0.	0.	12.	-9.	-2.	0.	0.	-21.	0.	0.	0.	10.	0.	0.	-2763.0	2763.0	0.00					

LA-QUAL TMDL for Gulf ICWW and Bayou Black

INPUT/OUTPUT LOADING SUMMARY

	FLOW	DO	BOD#1	BOD#2	ORG-N	NH3-N	NO3-N	PHOS	CHL A	NCM
	m^3/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d		
HEADWATER FLOW	5.234	2356.7	1792.0	0.0	631.4	124.4	0.0	0.0	0.0	0.0
INCREMENTAL INFLOW	7.686	4723.2	3500.1	0.0	920.1	66.4	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	63.680	29756.0	25523.5	0.0	8521.8	593.8	5.3	0.0	0.0	0.0
WITHDRAWLS	-80.543	-40874.6	-20128.9	0.0	-8931.2	-759.0	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	3.943	1701.8	1265.0	0.0	6.1	43.8	72.2	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		5.6	107.3	0.0	-22.4	26.4	72.0	0.0	0.0	0.0
DISPERSION THRU HDWTR BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	156260.7	0.0	4714.0					0.0
NATURAL REAERATION		15726.3								
DAM REAERATION		0.0								
BACKGROUND SOD		-51163.7								
BOD#1 DECAY		-168349.5	-168349.5							
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			-5833.7	5833.7				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-25744.4				-5945.6	5945.6			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		231823.3				0.0	-22290.7	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		0.0								0.0
NCM SETTLING		0.0								0.0
TOTAL INPUTS	76.600	286092.9	188448.7	0.0	14793.4	6688.6	6095.1	0.0	0.0	0.0
TOTAL OUTPUTS	-76.600	-286132.2	-188478.5	0.0	-14787.3	-6704.6	-22290.7	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	-39.3	-29.8	0.0	6.1	-16.0	-16195.6	0.0	0.0	0.0

.....EXECUTION COMPLETED

TMDL output file for subsegment 120204

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LA-QUAL Version 8.11
Louisiana Department of Environmental Quality
Input file is D:\LA TMDL 2006\Additional\TO95\TT_Models\0608 MT\0608 MT - Verret\TMDL\Lake Verret_TMDL_0608.txt
Output produced at 10:09 on 06/22/2008
$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$
CARD TYPE      CONTROL TITLES
TITLE01        LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
TITLE02        TMDL Simulation for Lake Verret and Grassy Lake 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   TEMPERATURE
MODOPT02  NO   SALINITY
MODOPT03  NO   CONSERVATIVE MATERIAL #1                  UNITS =
MODOPT04  NO   CONSERVATIVE MATERIAL #2                  UNITS =
MODOPT05  YES  DISSOLVED OXYGEN
MODOPT06  YES  BOD1 BIOCHEMICAL OXYGEN DEMAND #1
MODOPT07  NO   BOD2 BIOCHEMICAL OXYGEN DEMAND #2
MODOPT08  YES  NITROGEN SERIES
MODOPT09  NO   PHOSPHORUS
MODOPT10  NO   CHLOROPHYLL A
MODOPT11  NO   MACROPHYTES
MODOPT12  NO   COLIFORMS
MODOPT13  NO   NONCONSERVATIVE MATERIAL                  UNITS =
ENDATA02
$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$
CARD TYPE      DESCRIPTION OF CONSTANT                   VALUE
PROGRAM        HYDRAULIC CALCULATION METHOD      =       2.00000 (widths and depths)
PROGRAM        DISPERSION EQUATION               =       1.00000 (values entered as a constant)
PROGRAM        TIDE HEIGHT                       =       0.10000 meters
PROGRAM        HEADWATER EXCHANGE RATIO          =       1.00000
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
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$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                        BEGIN       END    ELEM    REACH    ELEMS   BEGIN    END
CARD TYPE  REACH  ID  NAME                          REACH     REACH   LENGTH   LENGTH   PER RCH   ELEM   ELEM
                                          km        km      km      km             NUM    NUM
REACH ID     1   GL   Grassy Lake                  28.30  TO   24.80   0.1000     3.50      35       1     35
REACH ID     2   FB   Fourmile Bayou 1             24.80  TO   22.80   0.1000     2.00      20      36     55
REACH ID     3   OB   Fourmile Bayou Oxbow          4.20  TO    0.00   0.1000     4.20      42      56     97
REACH ID     4   F2   Fourmile Bayou 2             22.80  TO   19.40   0.1000     3.40      34      98    131
REACH ID     5   V3   Lake Verret 1                19.40  TO   14.50   0.1000     4.90      49     132    180
REACH ID     6   V2   Lake Verret 2                14.50  TO    2.90   0.1000    11.60     116     181    296
REACH ID     7   V1   Lake Verret 3                 2.90  TO    0.00   0.1000     2.90      29     297    325
ENDATA08
$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID      WIDTH      WIDTH      WIDTH      DEPTH      DEPTH      DEPTH      SLOPE    MANNINGS
                          "A"        "B"        "C"        "D"        "E"        "F"                 "N"
HYDR-1       1   GL      0.000      0.000   1343.000      0.000      0.000      1.010    0.00000   0.050
HYDR-1       2   FB      0.000      0.000    107.000      0.000      0.000      5.240    0.00000   0.050
HYDR-1       3   OB      0.000      0.000     87.000      0.000      0.000      2.500    0.00000   0.050
HYDR-1       4   F2      0.000      0.000     87.000      0.000      0.000      4.390    0.00000   0.050
HYDR-1       5   V3      0.000      0.000   1892.000      0.000      0.000      1.340    0.00000   0.050
HYDR-1       6   V2      0.000      0.000   4092.000      0.000      0.000      2.130    0.00000   0.050
HYDR-1       7   V1      0.000      0.000    767.000      0.000      0.000      1.950    0.00000   0.050
ENDATA09
$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID    TIDAL     DISPERSION     DISPERSION     DISPERSION     DISPERSION
                         RANGE        "A"            "B"            "C"            "D"
HYDR         1   GL     0.00         0.500          0.000          0.000          0.000
HYDR         2   FB     0.00         0.400          0.000          0.000          0.000
HYDR         3   OB     0.00         0.400          0.000          0.000          0.000
HYDR         4   F2     0.00         0.200          0.000          0.000          0.000
HYDR         5   V3     0.00         0.200          0.000          0.000          0.000
HYDR         6   V2     0.00         0.200          0.000          0.000          0.000
HYDR         7   V1     0.00         0.100          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   GL      33.10     0.00     5.00     0.10     0.04     0.00    100.00      0.00
INITIAL         2   FB      33.90     0.00     5.00     0.10     0.04     0.00     95.00      0.00
INITIAL         3   OB      33.90     0.00     5.00     0.10     0.04     0.00     95.00      0.00
INITIAL         4   F2      32.90     0.00     5.00     0.10     0.04     0.00     30.00      0.00
INITIAL         5   V3      32.80     0.00     5.00     0.10     0.04     0.00    100.00      0.00
INITIAL         6   V2      32.60     0.00     5.00     0.10     0.04     0.00    105.00      0.00
INITIAL         7   V1      32.50     0.00     5.00     0.10     1.10     0.00     50.00      0.00
ENDATA11
$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                                    BOD    ANAER                  BOD2    ANAER
CARD     RCH  RCH  K2              K2       K2       K2   BKGRND      BOD      BOD     CONV      BOD2     BOD2     BOD2     CONV      BOD2
TYPE     NUM  ID   OPT            "A"      "B"      "C"      SOD    DECAY     SETT    TO SOD    DECAY    DECAY     SETT    TO SOD    DECAY
                                                          g/m²/d   per day      m/d             per day  per day      m/d             per day
COEFF-1    1  GL  20 K2=a/D       0.750    0.000    0.000    0.700    0.180    0.000    0.000     0.000    0.000    0.000    0.000     0.000
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COEFF-1   2  FB   3 OCONNER-DOBB    0.000    0.000    0.000    0.700    0.210    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   3  OB   3 OCONNER-DOBB    0.000    0.000    0.000    0.700    0.210    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   4  F2   3 OCONNER-DOBB    0.000    0.000    0.000    0.700    0.210    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   5  V3  20 K2=a/D          0.750    0.000    0.000    0.600    0.160    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   6  V2  20 K2=a/D          0.750    0.000    0.000    1.500    0.160    0.000    0.000    0.000    0.000    0.000    0.000    0.000
COEFF-1   7  V1  20 K2=a/D          0.750    0.000    0.000    0.400    0.200    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
COEFF-2         1  GL      0.020    0.000    0.000     0.200    0.000    0.000    0.000
COEFF-2         2  FB      0.020    0.000    0.000     0.200    0.000    0.000    0.000
COEFF-2         3  OB      0.020    0.000    0.000     0.200    0.000    0.000    0.000
COEFF-2         4  F2      0.020    0.000    0.000     0.200    0.000    0.000    0.000
COEFF-2         5  V3      0.020    0.000    0.000     0.200    0.000    0.000    0.000
COEFF-2         6  V2      0.020    0.000    0.000     0.200    0.000    0.000    0.000
COEFF-2         7  V1      0.020    0.000    0.000     0.200    0.000    0.000    0.000
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   SHADING
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   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  GL    31200.00    900.00      0.00      0.00     0.00      0.00
NONPOINT        2  FB     500.00     90.00      0.00      0.00     0.00      0.00
NONPOINT        3  OB     1000.00    100.00      0.00      0.00     0.00      0.00
NONPOINT        4  F2     500.00     100.00      0.00      0.00     0.00      0.00
NONPOINT        5  V3    158000.00   2000.00      0.00      0.00     0.00      0.00
NONPOINT        6  V2    347000.00    500.00      0.00      0.00     0.00      0.00
NONPOINT        7  V1       0.00       0.00      0.00      0.00     0.00      0.00
ENDATA19
$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$
CARD TYPE     ELEMENT   NAME                UNIT     FLOW     FLOW    TEMP    SALIN     CM-I     CM-II
                                                  m³/s      cfs   deg C      ppt
HDWTR-1         1     Grassy Lake             0  20.23333  714.454   30.00     0.00     0.000     0.000   0.00
HDWTR-1        56     Fourmile Bayou Oxbow    0   2.93333  103.578   30.00     0.00     0.000     0.000   0.00
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ENDATA20
$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$
CARD TYPE    ELEMENT  NAME                    DO    BOD#1    ORG-N    NH3-N    NO3-N    BOD#2
                                           mg/L     mg/L     mg/L     mg/L     mg/L     mg/L
HDWTR-2          1    Grassy Lake           6.70    23.50     1.60     0.10     0.04     0.00
HDWTR-2         56    Fourmile Bayou Oxbow  6.80    25.50     1.70     0.10     0.04     0.00
ENDATA21
$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
CARD TYPE    ELEMENT  NAME                  PHOS    CHL A     COLI      NCM
                                           mg/L     mg/L     mg/L     mg/L
ENDATA22
$$$ DATA TYPE 23 (JUNCTION DATA) $$$
CARD TYPE   JUNCTION  UPSTRM    RIVER     NAME
          ELEMENT  ELEMENT    KILOM
JUNCTION         98      55     22.80  Fourmile Bayou Oxbow
ENDATA23
$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$
CARD TYPE  ELEMENT    RKILO  NAME                FLOW      FLOW     FLOW    TEMP    SALIN     CM-I     CM-II
                                                 m³/s       cfs      MGD   deg C      ppt
WSTLD-1       26     25.80  Outflow to FB Oxbow  -2.93333 -103.57804  -66.954   30.00     0.00     0.000     0.000
WSTLD-1      132     19.40  Bayou Magazille      10.03333  354.28424  229.014   30.00     0.00     0.000     0.000
WSTLD-1      140     18.60  NPDES Group1          0.00197    0.06956    0.045   30.00     0.00     0.000     0.000
WSTLD-1      149     17.70  LAG540112             0.00055    0.01942    0.013   30.00     0.00     0.000     0.000
WSTLD-1      208     11.80  LAG560026             0.00156    0.05508    0.036   30.00     0.00     0.000     0.000
WSTLD-1      264      6.20  NPDES Group2          0.01153    0.40713    0.263   30.00     0.00     0.000     0.000
WSTLD-1      319      0.70  NPDES Group3          0.00010    0.00353    0.002   30.00     0.00     0.000     0.000
ENDATA24
$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                 % BOD                 %
CARD TYPE    ELEMENT  NAME                    DO      BOD      RMVL     ORG-N    NH3-N    NITRIF    NO3-N    BOD#2
                                           mg/L     mg/L              mg/L     mg/L              mg/L     mg/L
WSTLD-2          26   Outflow to FB Oxbow   6.80    25.50     0.00     1.70     0.10     0.00     0.00     0.00
WSTLD-2         132   Bayou Magazille       7.60    16.80     0.00     2.40     0.10     0.00     0.20     0.00
WSTLD-2         140   NPDES Group1          5.00    69.00     0.00     5.00    10.00     0.00     2.00     0.00
WSTLD-2         149   LAG540112             5.00    69.00     0.00     5.00    10.00     0.00     2.00     0.00
WSTLD-2         208   LAG560026             5.00    46.00     0.00     3.30     6.67     0.00     2.00     0.00
WSTLD-2         264   NPDES Group2          5.00    27.20     0.00     2.00     6.48     0.00     2.00     0.00
WSTLD-2         319   NPDES Group3          5.00   103.50     0.00     7.50    15.00     0.00     2.00     0.00
ENDATA25
$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
CARD TYPE    ELEMENT  NAME                  PHOS    CHL A     COLI      NCM
                                           mg/L     mg/L     mg/L     mg/L
ENDATA26
$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$
CARD TYPE    CONSTITUENT              CONCENTRATION
LOWER BC     TEMPERATURE                 30.800     deg C
LOWER BC     SALINITY                     0.000     ppt
LOWER BC     CONSERVATIVE MATERIAL I      0.000
LOWER BC     CONSERVATIVE MATERIAL II     0.000
LOWER BC     DISSOLVED OXYGEN             4.400     mg/L
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LOWER BC    BIOCHEMICAL OXYGEN DEMAND              2.750    mg/L
LOWER BC    ORGANIC NITROGEN                       0.000    mg/L
LOWER BC    AMMONIA NITROGEN                       0.100    mg/L
LOWER BC    NITRATE + NITRITE                      1.100    mg/L
LOWER BC    PHOSPHORUS                             0.000    mg/L
LOWER BC    CHLOROPHYLL A                          2.000    µg/L
LOWER BC    COLIFORM                               0.000    #/100 mL
LOWER BC    NONCONSERVATIVE MATERIAL               0.000
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 =  2
NUMBER OF REACHES IN PLOT 1 =   6
PLOT RCH  1  2  4  5  6  7
NUMBER OF REACHES IN PLOT 1 =   1
PLOT RCH  3
ENDATA30
$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 LakeVerret.OVL              :Lake Verret and Grassy Lake
ENDATA31
    .....NO ERRORS DETECTED IN INPUT DATA
    .....HYDRAULIC CALCULATIONS COMPLETED
    .....TRIDIAGONAL MATRIX TERMS INITIALIZED
    .....OXYGEN DEPENDENT RATES CONVERGENT IN   8 ITERATIONS
    .....CONSTITUENT CALCULATIONS COMPLETED
 ***** WARNING:  NEGATIVE CONCENTRATIONS SET TO ZERO FOR Nitrate+Nitrite Nitrogen
    .....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
    .....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12
INTERMEDIATE REPORT
 Dissolved Oxygen                          LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
   mg/L                                    TMDL Simulation for Lake Verret and Grassy Lake model
 ID  RCH  ELEM      +0      +1      +2      +3      +4      +5      +6      +7      +8      +9
 GL    1    1     6.71    6.71    6.72    6.72    6.73    6.73    6.74    6.75    6.75    6.76
 GL    1   11     6.77    6.78    6.78    6.79    6.80    6.81    6.81    6.82    6.83    6.84
 GL    1   21     6.84    6.85    6.86    6.86    6.87    6.87    6.88    6.89    6.89    6.90
 GL    1   31     6.91    6.91    6.92    6.92    6.93
 FB    2   36     6.92    6.91    6.89    6.87    6.83    6.79    6.75    6.69    6.63    6.56
 FB    2   46     6.49    6.41    6.32    6.22    6.12    6.01    5.89    5.77    5.64    5.51
 F2    4   98     5.40    5.34    5.29    5.24    5.20    5.16    5.13    5.10    5.07    5.06
 F2    4  108     5.04    5.04    5.03    5.03    5.04    5.05    5.07    5.09    5.12    5.15
 F2    4  118     5.18    5.22    5.27    5.31    5.37    5.43    5.49    5.56    5.63    5.70
 F2    4  128     5.79    5.87    5.96    6.16
 V3    5  132     6.99    7.31    7.59    7.83    8.04    8.22    8.37    8.49    8.59    8.66
 V3    5  142     8.72    8.76    8.78    8.78    8.78    8.75    8.72    8.68    8.62    8.56
 V3    5  152     8.49    8.41    8.33    8.24    8.15    8.05    7.95    7.85    7.74    7.64
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V3	5	162	7.53	7.41	7.30	7.19	7.07	6.96	6.85	6.73	6.62	6.51
V3	5	172	6.39	6.28	6.17	6.07	5.96	5.85	5.75	5.64	5.48	
V2	6	181	5.17	5.05	5.06	5.17	5.35	5.59	5.88	6.20	6.54	6.89
V2	6	191	7.25	7.61	7.97	8.32	8.66	8.99	9.30	9.60	9.88	10.14
V2	6	201	10.38	10.61	10.82	11.02	11.19	11.35	11.50	11.63	11.75	11.85
V2	6	211	11.94	12.02	12.08	12.14	12.18	12.22	12.24	12.26	12.27	12.27
V2	6	221	12.27	12.26	12.24	12.22	12.19	12.16	12.12	12.08	12.04	11.99
V2	6	231	11.93	11.88	11.82	11.76	11.70	11.63	11.56	11.49	11.42	11.35
V2	6	241	11.27	11.20	11.12	11.04	10.96	10.88	10.80	10.72	10.63	10.55
V2	6	251	10.46	10.38	10.29	10.21	10.12	10.03	9.94	9.85	9.77	9.68
V2	6	261	9.59	9.50	9.41	9.31	9.22	9.13	9.04	8.95	8.86	8.77
V2	6	271	8.68	8.58	8.49	8.40	8.31	8.22	8.13	8.03	7.94	7.85
V2	6	281	7.76	7.67	7.57	7.48	7.39	7.30	7.20	7.11	7.02	6.93
V2	6	291	6.83	6.74	6.65	6.56	6.48	6.42				
V1	7	297	6.41	6.41	6.40	6.38	6.36	6.34	6.32	6.29	6.26	6.23
V1	7	307	6.20	6.16	6.12	6.07	6.02	5.97	5.92	5.86	5.80	5.74
V1	7	317	5.68	5.61	5.54	5.47	5.39	5.31	5.23	5.15	5.02	
OB	3	56	6.62	6.50	6.39	6.29	6.21	6.14	6.08	6.02	5.98	5.94
OB	3	66	5.90	5.88	5.85	5.84	5.82	5.81	5.80	5.79	5.79	5.78
OB	3	76	5.77	5.77	5.76	5.76	5.75	5.74	5.73	5.71	5.70	5.68
OB	3	86	5.66	5.64	5.61	5.58	5.55	5.51	5.47	5.43	5.38	5.32
OB	3	96	5.26	5.23								

INTERMEDIATE REPORT

Effective BOD — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

mg/L — TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	23.38	23.30	23.22	23.13	23.05	22.98	22.90	22.82	22.75	22.67
GL	1	11	22.60	22.53	22.46	22.39	22.32	22.26	22.19	22.13	22.06	22.00
GL	1	21	21.94	21.88	21.82	21.76	21.70	21.64	21.58	21.51	21.45	21.39
GL	1	31	21.33	21.27	21.21	21.14	21.06					
FB	2	36	20.79	20.51	20.22	19.95	19.67	19.41	19.14	18.88	18.63	18.38
FB	2	46	18.13	17.89	17.65	17.42	17.19	16.96	16.74	16.52	16.29	16.02
F2	4	98	14.90	14.79	14.67	14.56	14.45	14.34	14.23	14.12	14.01	13.91
F2	4	108	13.80	13.69	13.59	13.49	13.38	13.28	13.18	13.08	12.98	12.89
F2	4	118	12.79	12.69	12.60	12.50	12.41	12.31	12.22	12.13	12.04	11.95
F2	4	128	11.86	11.77	11.69	11.93						
V3	5	132	14.29	15.10	15.88	16.65	17.39	18.12	18.82	19.51	20.18	20.83
V3	5	142	21.46	22.08	22.67	23.26	23.82	24.38	24.91	25.44	25.95	26.44
V3	5	152	26.92	27.39	27.85	28.29	28.73	29.15	29.56	29.96	30.34	30.72
V3	5	162	31.09	31.45	31.80	32.14	32.47	32.79	33.11	33.41	33.71	34.00
V3	5	172	34.28	34.55	34.82	35.08	35.33	35.58	35.81	35.94	35.45	
V2	6	181	33.24	31.47	29.86	28.37	27.01	25.77	24.62	23.58	22.62	21.74
V2	6	191	20.93	20.19	19.51	18.89	18.32	17.80	17.32	16.88	16.47	16.11
V2	6	201	15.77	15.46	15.17	14.91	14.67	14.45	14.25	14.07	13.90	13.75
V2	6	211	13.60	13.47	13.36	13.25	13.15	13.05	12.97	12.89	12.82	12.76
V2	6	221	12.70	12.65	12.60	12.55	12.51	12.47	12.43	12.40	12.37	12.35
V2	6	231	12.32	12.30	12.28	12.26	12.24	12.23	12.21	12.20	12.19	12.18
V2	6	241	12.17	12.16	12.15	12.14	12.13	12.13	12.12	12.12	12.11	12.11
V2	6	251	12.10	12.10	12.10	12.09	12.09	12.09	12.09	12.08	12.08	12.08
V2	6	261	12.08	12.08	12.08	12.08	12.08	12.08	12.08	12.08	12.08	12.08

V2	6	271	12.08	12.07	12.07	12.07	12.07	12.07	12.07	12.07	12.07	12.07
V2	6	281	12.07	12.07	12.07	12.07	12.07	12.07	12.07	12.07	12.07	12.08
V2	6	291	12.08	12.08	12.07	12.07	12.06	12.02				
V1	7	297	11.83	11.60	11.37	11.15	10.93	10.71	10.51	10.30	10.10	9.91
V1	7	307	9.71	9.53	9.34	9.17	8.99	8.82	8.65	8.49	8.33	8.17
V1	7	317	8.02	7.87	7.72	7.58	7.43	7.30	7.16	7.01	6.54	
OB	3	56	24.55	23.84	23.15	22.49	21.84	21.23	20.63	20.05	19.49	18.95
OB	3	66	18.43	17.92	17.43	16.96	16.51	16.07	15.64	15.23	14.83	14.45
OB	3	76	14.08	13.72	13.37	13.03	12.71	12.39	12.09	11.80	11.51	11.24
OB	3	86	10.97	10.72	10.47	10.23	10.00	9.77	9.56	9.35	9.16	9.04
OB	3	96	9.20	10.57								

INTERMEDIATE REPORT

Biochemical Oxygen Demand — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

mg/L — TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	23.38	23.30	23.22	23.13	23.05	22.98	22.90	22.82	22.75	22.67
GL	1	11	22.60	22.53	22.46	22.39	22.32	22.26	22.19	22.13	22.06	22.00
GL	1	21	21.94	21.88	21.82	21.76	21.70	21.64	21.58	21.51	21.45	21.39
GL	1	31	21.33	21.27	21.21	21.14	21.06					
FB	2	36	20.79	20.51	20.22	19.95	19.67	19.41	19.14	18.88	18.63	18.38
FB	2	46	18.13	17.89	17.65	17.42	17.19	16.96	16.74	16.52	16.29	16.02
F2	4	98	14.90	14.79	14.67	14.56	14.45	14.34	14.23	14.12	14.01	13.91
F2	4	108	13.80	13.69	13.59	13.49	13.38	13.28	13.18	13.08	12.98	12.89
F2	4	118	12.79	12.69	12.60	12.50	12.41	12.31	12.22	12.13	12.04	11.95
F2	4	128	11.86	11.77	11.69	11.93						
V3	5	132	14.29	15.10	15.88	16.65	17.39	18.12	18.82	19.51	20.18	20.83
V3	5	142	21.46	22.08	22.67	23.26	23.82	24.38	24.91	25.44	25.95	26.44
V3	5	152	26.92	27.39	27.85	28.29	28.73	29.15	29.56	29.96	30.34	30.72
V3	5	162	31.09	31.45	31.80	32.14	32.47	32.79	33.11	33.41	33.71	34.00
V3	5	172	34.28	34.55	34.82	35.08	35.33	35.58	35.81	35.94	35.45	
V2	6	181	33.24	31.47	29.86	28.37	27.01	25.77	24.62	23.58	22.62	21.74
V2	6	191	20.93	20.19	19.51	18.89	18.32	17.80	17.32	16.88	16.47	16.11
V2	6	201	15.77	15.46	15.17	14.91	14.67	14.45	14.25	14.07	13.90	13.75
V2	6	211	13.60	13.47	13.36	13.25	13.15	13.05	12.97	12.89	12.82	12.76
V2	6	221	12.70	12.65	12.60	12.55	12.51	12.47	12.43	12.40	12.37	12.35
V2	6	231	12.32	12.30	12.28	12.26	12.24	12.23	12.21	12.20	12.19	12.18
V2	6	241	12.17	12.16	12.15	12.14	12.13	12.13	12.12	12.12	12.11	12.11
V2	6	251	12.10	12.10	12.10	12.09	12.09	12.09	12.09	12.08	12.08	12.08
V2	6	261	12.08	12.08	12.08	12.08	12.08	12.08	12.08	12.08	12.08	12.08
V2	6	271	12.08	12.07	12.07	12.07	12.07	12.07	12.07	12.07	12.07	12.07
V2	6	281	12.07	12.07	12.07	12.07	12.07	12.07	12.07	12.07	12.07	12.08
V2	6	291	12.08	12.08	12.07	12.07	12.06	12.02				
V1	7	297	11.83	11.60	11.37	11.15	10.93	10.71	10.51	10.30	10.10	9.91
V1	7	307	9.71	9.53	9.34	9.17	8.99	8.82	8.65	8.49	8.33	8.17
V1	7	317	8.02	7.87	7.72	7.58	7.43	7.30	7.16	7.01	6.54	
OB	3	56	24.55	23.84	23.15	22.49	21.84	21.23	20.63	20.05	19.49	18.95
OB	3	66	18.43	17.92	17.43	16.96	16.51	16.07	15.64	15.23	14.83	14.45
OB	3	76	14.08	13.72	13.37	13.03	12.71	12.39	12.09	11.80	11.51	11.24
OB	3	86	10.97	10.72	10.47	10.23	10.00	9.77	9.56	9.35	9.16	9.04
OB	3	96	9.20	10.57								

INTERMEDIATE REPORT

Organic Nitrogen — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

mg/L — TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69	1.71	1.72
GL	1	11	1.73	1.74	1.75	1.76	1.77	1.78	1.80	1.81	1.82	1.83
GL	1	21	1.84	1.85	1.86	1.87	1.88	1.89	1.91	1.92	1.93	1.94
GL	1	31	1.96	1.97	1.98	1.99	2.00					
FB	2	36	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
FB	2	46	2.01	2.01	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02
F2	4	98	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
F2	4	108	2.01	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02
F2	4	118	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02
F2	4	128	2.03	2.03	2.03	2.04						
V3	5	132	2.16	2.17	2.18	2.19	2.20	2.21	2.22	2.23	2.24	2.25
V3	5	142	2.26	2.27	2.28	2.29	2.30	2.31	2.32	2.33	2.34	2.35
V3	5	152	2.36	2.37	2.38	2.39	2.40	2.41	2.42	2.43	2.44	2.45
V3	5	162	2.46	2.47	2.48	2.49	2.50	2.50	2.51	2.52	2.53	2.54
V3	5	172	2.55	2.56	2.57	2.58	2.59	2.60	2.61	2.61	2.61	
V2	6	181	2.59	2.57	2.55	2.53	2.51	2.49	2.47	2.45	2.43	2.41
V2	6	191	2.40	2.38	2.36	2.34	2.32	2.30	2.29	2.27	2.25	2.23
V2	6	201	2.22	2.20	2.18	2.17	2.15	2.13	2.12	2.10	2.08	2.07
V2	6	211	2.05	2.04	2.02	2.01	1.99	1.98	1.96	1.95	1.93	1.92
V2	6	221	1.90	1.89	1.87	1.86	1.84	1.83	1.82	1.80	1.79	1.78
V2	6	231	1.76	1.75	1.74	1.72	1.71	1.70	1.68	1.67	1.66	1.65
V2	6	241	1.64	1.62	1.61	1.60	1.59	1.58	1.56	1.55	1.54	1.53
V2	6	251	1.52	1.51	1.50	1.48	1.47	1.46	1.45	1.44	1.43	1.42
V2	6	261	1.41	1.40	1.39	1.38	1.37	1.36	1.35	1.34	1.33	1.32
V2	6	271	1.31	1.30	1.29	1.28	1.27	1.27	1.26	1.25	1.24	1.23
V2	6	281	1.22	1.21	1.20	1.20	1.19	1.18	1.17	1.16	1.15	1.15
V2	6	291	1.14	1.13	1.12	1.11	1.11	1.10				
V1	7	297	1.10	1.10	1.10	1.10	1.09	1.09	1.09	1.09	1.09	1.09
V1	7	307	1.09	1.08	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.07
V1	7	317	1.07	1.07	1.07	1.07	1.06	1.06	1.06	1.05	0.96	
OB	3	56	1.71	1.71	1.72	1.72	1.73	1.73	1.74	1.75	1.75	1.76
OB	3	66	1.76	1.77	1.77	1.78	1.78	1.79	1.79	1.80	1.81	1.81
OB	3	76	1.82	1.82	1.83	1.83	1.84	1.84	1.85	1.85	1.86	1.86
OB	3	86	1.87	1.87	1.88	1.88	1.89	1.89	1.90	1.90	1.91	1.92
OB	3	96	1.93	1.95								

INTERMEDIATE REPORT

Ammonia Nitrogen — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

mg/L — TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09
GL	1	11	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
GL	1	21	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
GL	1	31	0.09	0.09	0.09	0.09	0.09					
FB	2	36	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
FB	2	46	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
F2	4	98	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09

F2	4	108	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
F2	4	118	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
F2	4	128	0.09	0.09	0.09	0.09						
V3	5	132	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V3	5	142	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V3	5	152	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11
V3	5	162	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
V3	5	172	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	
V2	6	181	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
V2	6	191	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11
V2	6	201	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10
V2	6	211	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
V2	6	221	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
V2	6	231	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08
V2	6	241	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
V2	6	251	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
V2	6	261	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
V2	6	271	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
V2	6	281	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
V2	6	291	0.06	0.06	0.06	0.06	0.06	0.06				
V1	7	297	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
V1	7	307	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
V1	7	317	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
OB	3	56	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09
OB	3	66	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
OB	3	76	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
OB	3	86	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
OB	3	96	0.09	0.09								

INTERMEDIATE REPORT

Nitrate+Nitrite Nitrogen — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

mg/L — TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	31	0.00	0.00	0.00	0.00	0.00					
FB	2	36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FB	2	46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	128	0.00	0.00	0.00	0.00						
V3	5	132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
V2	6	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

V2	6	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	251	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	271	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	281	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	291	0.00	0.00	0.00	0.00	0.00	0.00				
V1	7	297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V1	7	307	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V1	7	317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
OB	3	56	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	96	0.00	0.00								

INTERMEDIATE REPORT

Total Nitrogen — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

mg/L — TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	1.72	1.72	1.74	1.75	1.76	1.77	1.78	1.79	1.80	1.81
GL	1	11	1.82	1.83	1.84	1.85	1.86	1.87	1.88	1.90	1.91	1.92
GL	1	21	1.93	1.94	1.95	1.96	1.97	1.98	1.99	2.01	2.02	2.03
GL	1	31	2.04	2.06	2.07	2.08	2.09					
FB	2	36	2.09	2.09	2.09	2.09	2.10	2.10	2.10	2.10	2.10	2.10
FB	2	46	2.10	2.10	2.10	2.11	2.11	2.11	2.11	2.11	2.11	2.11
F2	4	98	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.11
F2	4	108	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11
F2	4	118	2.11	2.11	2.11	2.11	2.12	2.12	2.12	2.12	2.12	2.12
F2	4	128	2.12	2.12	2.12	2.14						
V3	5	132	2.26	2.27	2.28	2.29	2.30	2.31	2.32	2.33	2.34	2.35
V3	5	142	2.36	2.37	2.38	2.39	2.40	2.41	2.42	2.44	2.45	2.46
V3	5	152	2.47	2.48	2.49	2.50	2.51	2.52	2.53	2.54	2.55	2.56
V3	5	162	2.57	2.58	2.59	2.60	2.61	2.62	2.62	2.63	2.64	2.65
V3	5	172	2.66	2.67	2.68	2.69	2.70	2.71	2.72	2.73	2.73	
V2	6	181	2.71	2.69	2.67	2.65	2.63	2.62	2.60	2.58	2.56	2.54
V2	6	191	2.52	2.50	2.48	2.46	2.44	2.42	2.40	2.38	2.36	2.35
V2	6	201	2.33	2.31	2.29	2.27	2.26	2.24	2.22	2.20	2.19	2.17
V2	6	211	2.15	2.14	2.12	2.11	2.09	2.07	2.06	2.04	2.03	2.01
V2	6	221	2.00	1.98	1.97	1.95	1.94	1.92	1.91	1.89	1.88	1.86
V2	6	231	1.85	1.84	1.82	1.81	1.80	1.78	1.77	1.76	1.74	1.73
V2	6	241	1.72	1.70	1.69	1.68	1.67	1.65	1.64	1.63	1.62	1.61
V2	6	251	1.59	1.58	1.57	1.56	1.55	1.54	1.52	1.51	1.50	1.49
V2	6	261	1.48	1.47	1.46	1.45	1.44	1.43	1.42	1.41	1.40	1.39
V2	6	271	1.38	1.37	1.36	1.35	1.34	1.33	1.32	1.31	1.30	1.29
V2	6	281	1.28	1.27	1.26	1.25	1.25	1.24	1.23	1.22	1.21	1.20
V2	6	291	1.19	1.19	1.18	1.17	1.16	1.16				
V1	7	297	1.16	1.16	1.15	1.15	1.15	1.15	1.15	1.15	1.14	1.14
V1	7	307	1.14	1.14	1.14	1.14	1.13	1.13	1.13	1.13	1.13	1.13

V1	7	317	1.13	1.12	1.12	1.12	1.12	1.12	1.12	1.11	1.02	
OB	3	56	1.81	1.81	1.81	1.82	1.82	1.83	1.83	1.84	1.84	1.85
OB	3	66	1.85	1.86	1.86	1.87	1.87	1.88	1.88	1.89	1.89	1.90
OB	3	76	1.90	1.91	1.92	1.92	1.93	1.93	1.94	1.94	1.95	1.95
OB	3	86	1.96	1.96	1.97	1.97	1.98	1.98	1.99	1.99	2.00	2.01
OB	3	96	2.02	2.04								

INTERMEDIATE REPORT

Chlorophyll a — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

µg/L — TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	
GL	1	1	99.86	99.71	99.57	99.43	99.29	99.14	99.00	98.86	98.71	98.57	
GL	1	11	98.43	98.29	98.14	98.00	97.86	97.71	97.57	97.43	97.29	97.14	
GL	1	21	97.00	96.86	96.71	96.57	96.43	96.29	96.14	96.00	95.86	95.71	
GL	1	31	95.57	95.43	95.29	95.14	95.00						
FB	2	36	91.75	88.50	85.25	82.00	78.75	75.50	72.25	69.00	65.75	62.50	
FB	2	46	59.25	56.00	52.75	49.50	46.25	43.00	39.75	36.50	33.25	30.00	
F2	4	98	32.06	34.12	36.18	38.24	40.29	42.35	44.41	46.47	48.53	50.59	
F2	4	108	52.65	54.71	56.76	58.82	60.88	62.94	65.00	67.06	69.12	71.18	
F2	4	118	73.24	75.29	77.35	79.41	81.47	83.53	85.59	87.65	89.71	91.76	
F2	4	128	93.82	95.88	97.94	100.00							
V3	5	132	100.10	100.20	100.31	100.41	100.51	100.61	100.71	100.82	100.92	101.02	
V3	5	142	101.12	101.22	101.33	101.43	101.53	101.63	101.73	101.84	101.94	102.04	
V3	5	152	102.14	102.24	102.35	102.45	102.55	102.65	102.76	102.86	102.96	103.06	
V3	5	162	103.16	103.27	103.37	103.47	103.57	103.67	103.78	103.88	103.98	104.08	
V3	5	172	104.18	104.29	104.39	104.49	104.59	104.69	104.80	104.90	105.00		
V2	6	181	104.53	104.05	103.58	103.10	102.63	102.16	101.68	101.21	100.73	100.26	
V2	6	191	99.78	99.31	98.84	98.36	97.89	97.41	96.94	96.47	95.99	95.52	
V2	6	201	95.04	94.57	94.09	93.62	93.15	92.67	92.20	91.72	91.25	90.78	
V2	6	211	90.30	89.83	89.35	88.88	88.41	87.93	87.46	86.98	86.51	86.03	
V2	6	221	85.56	85.09	84.61	84.14	83.66	83.19	82.72	82.24	81.77	81.29	
V2	6	231	80.82	80.34	79.87	79.40	78.92	78.45	77.97	77.50	77.03	76.55	
V2	6	241	76.08	75.60	75.13	74.66	74.18	73.71	73.23	72.76	72.28	71.81	
V2	6	251	71.34	70.86	70.39	69.91	69.44	68.97	68.49	68.02	67.54	67.07	
V2	6	261	66.59	66.12	65.65	65.17	64.70	64.22	63.75	63.28	62.80	62.33	
V2	6	271	61.85	61.38	60.91	60.43	59.96	59.48	59.01	58.53	58.06	57.59	
V2	6	281	57.11	56.64	56.16	55.69	55.22	54.74	54.27	53.79	53.32	52.84	
V2	6	291	52.37	51.90	51.42	50.95	50.47	50.00					
V1	7	297	48.34	46.69	45.03	43.38	41.72	40.07	38.41	36.76	35.10	33.45	
V1	7	307	31.79	30.14	28.48	26.83	25.17	23.52	21.86	20.21	18.55	16.90	
V1	7	317	15.24	13.59	11.93	10.28	8.62	6.97	5.31	3.66	2.00		
OB	3	56	93.45	91.90	90.36	88.81	87.26	85.71	84.17	82.62	81.07	79.52	
OB	3	66	77.98	76.43	74.88	73.33	71.79	70.24	68.69	67.14	65.60	64.05	
OB	3	76	62.50	60.95	59.40	57.86	56.31	54.76	53.21	51.67	50.12	48.57	
OB	3	86	47.02	45.48	43.93	42.38	40.83	39.29	37.74	36.19	34.64	33.10	
OB	3	96	31.55	30.00									

INTERMEDIATE REPORT

Temperature — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

deg C — TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	33.12	33.15	33.17	33.19	33.21	33.24	33.26	33.28	33.31	33.33

GL	1	11	33.35	33.37	33.40	33.42	33.44	33.47	33.49	33.51	33.53	33.56
GL	1	21	33.58	33.60	33.63	33.65	33.67	33.69	33.72	33.74	33.76	33.79
GL	1	31	33.81	33.83	33.85	33.88	33.90					
FB	2	36	33.85	33.80	33.75	33.70	33.65	33.60	33.55	33.50	33.45	33.40
FB	2	46	33.35	33.30	33.25	33.20	33.15	33.10	33.05	33.00	32.95	32.90
F2	4	98	32.90	32.89	32.89	32.89	32.89	32.88	32.88	32.88	32.87	32.87
F2	4	108	32.87	32.86	32.86	32.86	32.86	32.85	32.85	32.85	32.84	32.84
F2	4	118	32.84	32.84	32.83	32.83	32.83	32.82	32.82	32.82	32.81	32.81
F2	4	128	32.81	32.81	32.80	32.80						
V3	5	132	32.80	32.79	32.79	32.78	32.78	32.78	32.77	32.77	32.76	32.76
V3	5	142	32.76	32.75	32.75	32.74	32.74	32.73	32.73	32.73	32.72	32.72
V3	5	152	32.71	32.71	32.71	32.70	32.70	32.69	32.69	32.69	32.68	32.68
V3	5	162	32.67	32.67	32.67	32.66	32.66	32.65	32.65	32.64	32.64	32.64
V3	5	172	32.63	32.63	32.62	32.62	32.62	32.61	32.61	32.60	32.60	
V2	6	181	32.60	32.60	32.60	32.60	32.60	32.59	32.59	32.59	32.59	32.59
V2	6	191	32.59	32.59	32.59	32.59	32.59	32.59	32.59	32.58	32.58	32.58
V2	6	201	32.58	32.58	32.58	32.58	32.58	32.58	32.58	32.58	32.58	32.57
V2	6	211	32.57	32.57	32.57	32.57	32.57	32.57	32.57	32.57	32.57	32.57
V2	6	221	32.56	32.56	32.56	32.56	32.56	32.56	32.56	32.56	32.56	32.56
V2	6	231	32.56	32.56	32.55	32.55	32.55	32.55	32.55	32.55	32.55	32.55
V2	6	241	32.55	32.55	32.55	32.54	32.54	32.54	32.54	32.54	32.54	32.54
V2	6	251	32.54	32.54	32.54	32.54	32.54	32.53	32.53	32.53	32.53	32.53
V2	6	261	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.52	32.52	32.52
V2	6	271	32.52	32.52	32.52	32.52	32.52	32.52	32.52	32.52	32.51	32.51
V2	6	281	32.51	32.51	32.51	32.51	32.51	32.51	32.51	32.51	32.51	32.51
V2	6	291	32.50	32.50	32.50	32.50	32.50	32.50				
V1	7	297	32.44	32.38	32.32	32.27	32.21	32.15	32.09	32.03	31.97	31.91
V1	7	307	31.86	31.80	31.74	31.68	31.62	31.56	31.50	31.44	31.39	31.33
V1	7	317	31.27	31.21	31.15	31.09	31.03	30.98	30.92	30.86	30.80	
OB	3	56	33.88	33.85	33.83	33.80	33.78	33.76	33.73	33.71	33.69	33.66
OB	3	66	33.64	33.61	33.59	33.57	33.54	33.52	33.50	33.47	33.45	33.42
OB	3	76	33.40	33.38	33.35	33.33	33.30	33.28	33.26	33.23	33.21	33.19
OB	3	86	33.16	33.14	33.11	33.09	33.07	33.04	33.02	33.00	32.97	32.95
OB	3	96	32.92	32.90								

INTERMEDIATE REPORT

Salinity — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

ppt — TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	31	0.00	0.00	0.00	0.00	0.00					
FB	2	36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FB	2	46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	128	0.00	0.00	0.00	0.00						
V3	5	132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

V3	5	152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
V2	6	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	251	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	271	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	281	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	291	0.00	0.00	0.00	0.00	0.00	0.00				
V1	7	297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V1	7	307	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V1	7	317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
OB	3	56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	96	0.00	0.00								

INTERMEDIATE REPORT

Reaeration Rate per day — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204) TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.942	0.942	0.943	0.943	0.943	0.944	0.944	0.944	0.945	0.945
GL	1	11	0.945	0.946	0.946	0.947	0.947	0.947	0.948	0.948	0.948	0.949
GL	1	21	0.949	0.949	0.950	0.950	0.950	0.951	0.951	0.952	0.952	0.952
GL	1	31	0.953	0.953	0.953	0.954	0.954					
FB	2	36	0.172	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.170	0.170
FB	2	46	0.170	0.170	0.170	0.170	0.170	0.169	0.169	0.169	0.169	0.169
F2	4	98	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201
F2	4	108	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201
F2	4	118	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201	0.201
F2	4	128	0.201	0.201	0.201	0.201						
V3	5	132	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706
V3	5	142	0.706	0.706	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705
V3	5	152	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705	0.705
V3	5	162	0.705	0.705	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704
V3	5	172	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704	0.704	
V2	6	181	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443
V2	6	191	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443
V2	6	201	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443
V2	6	211	0.443	0.443	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	221	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	231	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	241	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	251	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442

V2	6	261	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	271	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	281	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
V2	6	291	0.442	0.442	0.442	0.442	0.442	0.442				
V1	7	297	0.482	0.482	0.481	0.481	0.480	0.480	0.479	0.479	0.479	0.478
V1	7	307	0.478	0.477	0.477	0.476	0.476	0.475	0.475	0.474	0.474	0.473
V1	7	317	0.473	0.472	0.472	0.471	0.471	0.470	0.470	0.470	0.469	
OB	3	56	0.360	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.358	0.358
OB	3	66	0.358	0.358	0.358	0.358	0.358	0.357	0.357	0.357	0.357	0.357
OB	3	76	0.357	0.357	0.357	0.356	0.356	0.356	0.356	0.356	0.356	0.356
OB	3	86	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.354	0.354	0.354
OB	3	96	0.354	0.354								

INTERMEDIATE REPORT

BOD Decay Rate — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

per day — TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
GL	1	11	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.34	0.34
GL	1	21	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
GL	1	31	0.34	0.34	0.34	0.34	0.34					
FB	2	36	0.40	0.40	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
FB	2	46	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.38
F2	4	98	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
F2	4	108	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
F2	4	118	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
F2	4	128	0.38	0.38	0.38	0.38						
V3	5	132	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V3	5	142	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V3	5	152	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V3	5	162	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V3	5	172	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	
V2	6	181	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V2	6	191	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V2	6	201	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
V2	6	211	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28
V2	6	221	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	231	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	241	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	251	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	261	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	271	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	281	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
V2	6	291	0.28	0.28	0.28	0.28	0.28	0.28				
V1	7	297	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
V1	7	307	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
V1	7	317	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	
OB	3	56	0.40	0.40	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39
OB	3	66	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
OB	3	76	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38
OB	3	86	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38

OB 3 96 0.38 0.38

INTERMEDIATE REPORT

BOD Settling Rate — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

per day — TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GL	1	31	0.00	0.00	0.00	0.00	0.00					
FB	2	36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FB	2	46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F2	4	128	0.00	0.00	0.00	0.00						
V3	5	132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V3	5	172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
V2	6	181	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	191	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	221	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	231	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	251	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	271	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	281	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V2	6	291	0.00	0.00	0.00	0.00	0.00	0.00				
V1	7	297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V1	7	307	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V1	7	317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
OB	3	56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OB	3	96	0.00	0.00								

INTERMEDIATE REPORT

Ammonia Decay Rate — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

per day — TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.56	0.56	0.56
GL	1	11	0.56	0.56	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
GL	1	21	0.57	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.59
GL	1	31	0.59	0.59	0.59	0.59	0.59					
FB	2	36	0.59	0.59	0.58	0.58	0.58	0.57	0.57	0.57	0.57	0.56
FB	2	46	0.56	0.56	0.55	0.55	0.54	0.54	0.54	0.53	0.53	0.52

F2	4	98	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.51	0.51	0.51
F2	4	108	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
F2	4	118	0.51	0.51	0.51	0.52	0.52	0.52	0.52	0.52	0.52	0.52
F2	4	128	0.52	0.53	0.53	0.53						
V3	5	132	0.54	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
V3	5	142	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
V3	5	152	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.54
V3	5	162	0.54	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.53
V3	5	172	0.53	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.51	
V2	6	181	0.50	0.50	0.50	0.50	0.51	0.51	0.52	0.52	0.53	0.53
V2	6	191	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
V2	6	201	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
V2	6	211	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
V2	6	221	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
V2	6	231	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
V2	6	241	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
V2	6	251	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
V2	6	261	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
V2	6	271	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
V2	6	281	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.53	0.53
V2	6	291	0.53	0.53	0.52	0.52	0.52	0.52				
V1	7	297	0.52	0.52	0.51	0.51	0.51	0.51	0.50	0.50	0.50	0.49
V1	7	307	0.49	0.49	0.49	0.48	0.48	0.48	0.47	0.47	0.47	0.46
V1	7	317	0.46	0.46	0.45	0.45	0.45	0.44	0.44	0.44	0.43	
OB	3	56	0.58	0.58	0.58	0.58	0.57	0.57	0.57	0.57	0.57	0.56
OB	3	66	0.56	0.56	0.56	0.56	0.56	0.55	0.55	0.55	0.55	0.55
OB	3	76	0.55	0.55	0.55	0.55	0.54	0.54	0.54	0.54	0.54	0.54
OB	3	86	0.54	0.53	0.53	0.53	0.53	0.53	0.53	0.52	0.52	0.52
OB	3	96	0.52	0.52								

INTERMEDIATE REPORT

Sediment Oxygen Demand — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

g/m²/d — TMDL Simulation for Lake Verret and Grassy Lake model

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
GL	1	1	1.60	1.60	1.60	1.61	1.61	1.61	1.61	1.62	1.62	1.62
GL	1	11	1.62	1.63	1.63	1.63	1.63	1.63	1.64	1.64	1.64	1.64
GL	1	21	1.65	1.65	1.65	1.65	1.66	1.66	1.66	1.66	1.67	1.67
GL	1	31	1.67	1.67	1.67	1.68	1.68					
FB	2	36	1.67	1.67	1.66	1.66	1.65	1.65	1.64	1.64	1.63	1.63
FB	2	46	1.62	1.62	1.61	1.61	1.60	1.60	1.59	1.59	1.58	1.58
F2	4	98	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.57	1.57	1.57
F2	4	108	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57
F2	4	118	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57
F2	4	128	1.57	1.57	1.57	1.57						
V3	5	132	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
V3	5	142	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34
V3	5	152	1.34	1.34	1.34	1.34	1.33	1.33	1.33	1.33	1.33	1.33
V3	5	162	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
V3	5	172	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	
V2	6	181	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.31
V2	6	191	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31

V2	6	201	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	211	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	221	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	231	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
V2	6	241	3.31	3.31	3.31	3.31	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	251	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	261	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	271	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	281	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
V2	6	291	3.30	3.30	3.30	3.30	3.30	3.30				
V1	7	297	0.88	0.87	0.87	0.87	0.86	0.86	0.86	0.85	0.85	0.85
V1	7	307	0.84	0.84	0.84	0.83	0.83	0.83	0.83	0.82	0.82	0.82
V1	7	317	0.81	0.81	0.81	0.80	0.80	0.80	0.80	0.79	0.79	
OB	3	56	1.68	1.67	1.67	1.67	1.67	1.66	1.66	1.66	1.66	1.65
OB	3	66	1.65	1.65	1.65	1.64	1.64	1.64	1.64	1.64	1.63	1.63
OB	3	76	1.63	1.63	1.62	1.62	1.62	1.62	1.61	1.61	1.61	1.61
OB	3	86	1.60	1.60	1.60	1.60	1.59	1.59	1.59	1.59	1.58	1.58
OB	3	96	1.58	1.58								

EXPANDED CAPSULE SUMMARY FOR Grassy Lake

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	WIDTH	VELO	VELO	SAT	RATE DECA	SETT DECA	RATE DECA	SETT DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	g/m²/d
		HDWTR	20.233	30.0	0.0	6.7	23.5	0.0	1.6	0.1	100.0												
1	GL	1	28.20	20.233	33.1	0.0	6.7	23.4	0.0	1.6	0.1	99.9	0.5	1.011	343.0	0.015	0.015	7.2	0.942	0.33	0.00	0.00	0.00	0.55	1.60
2	GL	1	28.10	20.233	33.1	0.0	6.7	23.3	0.0	1.6	0.1	99.7	0.5	1.011	343.0	0.015	0.015	7.2	0.942	0.33	0.00	0.00	0.00	0.55	1.60
3	GL	1	28.00	20.233	33.2	0.0	6.7	23.2	0.0	1.6	0.1	99.6	0.5	1.011	343.0	0.015	0.015	7.2	0.943	0.33	0.00	0.00	0.00	0.55	1.60
4	GL	1	27.90	20.233	33.2	0.0	6.7	23.1	0.0	1.6	0.1	99.4	0.5	1.011	343.0	0.015	0.015	7.2	0.943	0.33	0.00	0.00	0.00	0.56	1.61
5	GL	1	27.80	20.233	33.2	0.0	6.7	23.1	0.0	1.7	0.1	99.3	0.5	1.011	343.0	0.015	0.015	7.2	0.943	0.33	0.00	0.00	0.00	0.56	1.61
6	GL	1	27.70	20.233	33.2	0.0	6.7	23.0	0.0	1.7	0.1	99.1	0.5	1.011	343.0	0.015	0.015	7.2	0.944	0.33	0.00	0.00	0.00	0.56	1.61
7	GL	1	27.60	20.233	33.3	0.0	6.7	22.9	0.0	1.7	0.1	99.0	0.5	1.011	343.0	0.015	0.015	7.2	0.944	0.33	0.00	0.00	0.00	0.56	1.61
8	GL	1	27.50	20.233	33.3	0.0	6.7	22.8	0.0	1.7	0.1	98.9	0.5	1.011	343.0	0.015	0.015	7.1	0.944	0.33	0.00	0.00	0.00	0.56	1.62
9	GL	1	27.40	20.233	33.3	0.0	6.8	22.7	0.0	1.7	0.1	98.7	0.5	1.011	343.0	0.015	0.015	7.1	0.945	0.33	0.00	0.00	0.00	0.56	1.62
10	GL	1	27.30	20.233	33.3	0.0	6.8	22.7	0.0	1.7	0.1	98.6	0.5	1.011	343.0	0.015	0.015	7.1	0.945	0.33	0.00	0.00	0.00	0.56	1.62
11	GL	1	27.20	20.233	33.4	0.0	6.8	22.6	0.0	1.7	0.1	98.4	0.5	1.011	343.0	0.015	0.015	7.1	0.945	0.33	0.00	0.00	0.00	0.56	1.62
12	GL	1	27.10	20.233	33.4	0.0	6.8	22.5	0.0	1.7	0.1	98.3	0.5	1.011	343.0	0.015	0.015	7.1	0.946	0.33	0.00	0.00	0.00	0.56	1.63
13	GL	1	27.00	20.233	33.4	0.0	6.8	22.5	0.0	1.8	0.1	98.1	0.5	1.011	343.0	0.015	0.015	7.1	0.946	0.33	0.00	0.00	0.00	0.57	1.63
14	GL	1	26.90	20.233	33.4	0.0	6.8	22.4	0.0	1.8	0.1	98.0	0.5	1.011	343.0	0.015	0.015	7.1	0.947	0.33	0.00	0.00	0.00	0.57	1.63
15	GL	1	26.80	20.233	33.4	0.0	6.8	22.3	0.0	1.8	0.1	97.9	0.5	1.011	343.0	0.015	0.015	7.1	0.947	0.33	0.00	0.00	0.00	0.57	1.63
16	GL	1	26.70	20.233	33.5	0.0	6.8	22.3	0.0	1.8	0.1	97.7	0.5	1.011	343.0	0.015	0.015	7.1	0.947	0.33	0.00	0.00	0.00	0.57	1.63
17	GL	1	26.60	20.233	33.5	0.0	6.8	22.2	0.0	1.8	0.1	97.6	0.5	1.011	343.0	0.015	0.015	7.1	0.948	0.33	0.00	0.00	0.00	0.57	1.64
18	GL	1	26.50	20.233	33.5	0.0	6.8	22.1	0.0	1.8	0.1	97.4	0.5	1.011	343.0	0.015	0.015	7.1	0.948	0.33	0.00	0.00	0.00	0.57	1.64
19	GL	1	26.40	20.233	33.5	0.0	6.8	22.1	0.0	1.8	0.1	97.3	0.5	1.011	343.0	0.015	0.015	7.1	0.948	0.34	0.00	0.00	0.00	0.57	1.64
20	GL	1	26.30	20.233	33.6	0.0	6.8	22.0	0.0	1.8	0.1	97.1	0.5	1.011	343.0	0.015	0.015	7.1	0.949	0.34	0.00	0.00	0.00	0.57	1.64
21	GL	1	26.20	20.233	33.6	0.0	6.8	21.9	0.0	1.8	0.1	97.0	0.5	1.011	343.0	0.015	0.015	7.1	0.949	0.34	0.00	0.00	0.00	0.57	1.65
22	GL	1	26.10	20.233	33.6	0.0	6.8	21.9	0.0	1.9	0.1	96.9	0.5	1.011	343.0	0.015	0.015	7.1	0.949	0.34	0.00	0.00	0.00	0.58	1.65
23	GL	1	26.00	20.233	33.6	0.0	6.9	21.8	0.0	1.9	0.1	96.7	0.5	1.011	343.0	0.015	0.015	7.1	0.950	0.34	0.00	0.00	0.00	0.58	1.65
24	GL	1	25.90	20.233	33.6	0.0	6.9	21.8	0.0	1.9	0.1	96.6	0.5	1.011	343.0	0.015	0.015	7.1	0.950	0.34	0.00	0.00	0.00	0.58	1.65
25	GL	1	25.80	20.233	33.7	0.0	6.9	21.7	0.0	1.9	0.1	96.4	0.5	1.011	343.0	0.015	0.015	7.1	0.950	0.34	0.00	0.00	0.00	0.58	1.66
		DIVERSION # 026 (Outflow to FB Oxbow) LEAVES HERE																					
26	GL	1	25.70	17.300	33.7	0.0	6.9	21.6	0.0	1.9	0.1	96.3	0.5	1.011	343.0	0.013	0.013	7.1	0.951	0.34	0.00	0.00	0.00	0.58	1.66

27	GL	1	25.60	17.300	33.7	0.0	6.9	21.6	0.0	1.9	0.1	96.1	0.5	1.011	343.0	0.013	0.013	7.1	0.951	0.34	0.00	0.00	0.00	0.58	1.66
28	GL	1	25.50	17.300	33.7	0.0	6.9	21.5	0.0	1.9	0.1	96.0	0.5	1.011	343.0	0.013	0.013	7.1	0.952	0.34	0.00	0.00	0.00	0.58	1.66
29	GL	1	25.40	17.300	33.8	0.0	6.9	21.5	0.0	1.9	0.1	95.9	0.5	1.011	343.0	0.013	0.013	7.1	0.952	0.34	0.00	0.00	0.00	0.58	1.67
30	GL	1	25.30	17.300	33.8	0.0	6.9	21.4	0.0	1.9	0.1	95.7	0.5	1.011	343.0	0.013	0.013	7.1	0.952	0.34	0.00	0.00	0.00	0.59	1.67
31	GL	1	25.20	17.300	33.8	0.0	6.9	21.3	0.0	2.0	0.1	95.6	0.5	1.011	343.0	0.013	0.013	7.1	0.953	0.34	0.00	0.00	0.00	0.59	1.67
32	GL	1	25.10	17.300	33.8	0.0	6.9	21.3	0.0	2.0	0.1	95.4	0.5	1.011	343.0	0.013	0.013	7.1	0.953	0.34	0.00	0.00	0.00	0.59	1.67
33	GL	1	25.00	17.300	33.9	0.0	6.9	21.2	0.0	2.0	0.1	95.3	0.5	1.011	343.0	0.013	0.013	7.1	0.953	0.34	0.00	0.00	0.00	0.59	1.67
34	GL	1	24.90	17.300	33.9	0.0	6.9	21.1	0.0	2.0	0.1	95.1	0.5	1.011	343.0	0.013	0.013	7.1	0.954	0.34	0.00	0.00	0.00	0.59	1.68
35	GL	1	24.80	17.300	33.9	0.0	6.9	21.1	0.0	2.0	0.1	95.0	0.5	1.011	343.0	0.013	0.013	7.1	0.954	0.34	0.00	0.00	0.00	0.59	1.68
36	FB	2	24.70	17.300	33.9	0.0	6.9	20.8	0.0	2.0	0.1	91.8	0.4	5.24	107.0	0.031	0.031	7.1	0.172	0.40	0.00	0.00	0.00	0.59	1.67
37	FB	2	24.60	17.300	33.8	0.0	6.9	20.5	0.0	2.0	0.1	88.5	0.4	5.24	107.0	0.031	0.031	7.1	0.171	0.40	0.00	0.00	0.00	0.59	1.67
38	FB	2	24.50	17.300	33.8	0.0	6.9	20.2	0.0	2.0	0.1	85.2	0.4	5.24	107.0	0.031	0.031	7.1	0.171	0.39	0.00	0.00	0.00	0.58	1.66
39	FB	2	24.40	17.300	33.7	0.0	6.9	19.9	0.0	2.0	0.1	82.0	0.4	5.24	107.0	0.031	0.031	7.1	0.171	0.39	0.00	0.00	0.00	0.58	1.66
40	FB	2	24.30	17.300	33.7	0.0	6.8	19.7	0.0	2.0	0.1	78.8	0.4	5.24	107.0	0.031	0.031	7.1	0.171	0.39	0.00	0.00	0.00	0.58	1.65
41	FB	2	24.20	17.300	33.6	0.0	6.8	19.4	0.0	2.0	0.1	75.5	0.4	5.24	107.0	0.031	0.031	7.1	0.171	0.39	0.00	0.00	0.00	0.57	1.65
42	FB	2	24.10	17.300	33.6	0.0	6.7	19.1	0.0	2.0	0.1	72.2	0.4	5.24	107.0	0.031	0.031	7.1	0.171	0.39	0.00	0.00	0.00	0.57	1.64
43	FB	2	24.00	17.300	33.5	0.0	6.7	18.9	0.0	2.0	0.1	69.0	0.4	5.24	107.0	0.031	0.031	7.1	0.171	0.39	0.00	0.00	0.00	0.57	1.64
44	FB	2	23.90	17.300	33.5	0.0	6.6	18.6	0.0	2.0	0.1	65.8	0.4	5.24	107.0	0.031	0.031	7.1	0.170	0.39	0.00	0.00	0.00	0.57	1.63
45	FB	2	23.80	17.300	33.4	0.0	6.6	18.4	0.0	2.0	0.1	62.5	0.4	5.24	107.0	0.031	0.031	7.1	0.170	0.39	0.00	0.00	0.00	0.56	1.63
46	FB	2	23.70	17.300	33.4	0.0	6.5	18.1	0.0	2.0	0.1	59.2	0.4	5.24	107.0	0.031	0.031	7.1	0.170	0.39	0.00	0.00	0.00	0.56	1.62
47	FB	2	23.60	17.300	33.3	0.0	6.4	17.9	0.0	2.0	0.1	56.0	0.4	5.24	107.0	0.031	0.031	7.1	0.170	0.39	0.00	0.00	0.00	0.56	1.62
48	FB	2	23.50	17.300	33.2	0.0	6.3	17.7	0.0	2.0	0.1	52.8	0.4	5.24	107.0	0.031	0.031	7.2	0.170	0.39	0.00	0.00	0.00	0.55	1.61
49	FB	2	23.40	17.300	33.2	0.0	6.2	17.4	0.0	2.0	0.1	49.5	0.4	5.24	107.0	0.031	0.031	7.2	0.170	0.39	0.00	0.00	0.00	0.55	1.61
50	FB	2	23.30	17.300	33.2	0.0	6.1	17.2	0.0	2.0	0.1	46.2	0.4	5.24	107.0	0.031	0.031	7.2	0.170	0.38	0.00	0.00	0.00	0.54	1.60
51	FB	2	23.20	17.300	33.1	0.0	6.0	17.0	0.0	2.0	0.1	43.0	0.4	5.24	107.0	0.031	0.031	7.2	0.169	0.38	0.00	0.00	0.00	0.54	1.60
52	FB	2	23.10	17.300	33.1	0.0	5.9	16.7	0.0	2.0	0.1	39.8	0.4	5.24	107.0	0.031	0.031	7.2	0.169	0.38	0.00	0.00	0.00	0.54	1.59
53	FB	2	23.00	17.300	33.0	0.0	5.8	16.5	0.0	2.0	0.1	36.5	0.4	5.24	107.0	0.031	0.031	7.2	0.169	0.38	0.00	0.00	0.00	0.53	1.59
54	FB	2	22.90	17.300	33.0	0.0	5.6	16.3	0.0	2.0	0.1	33.2	0.4	5.24	107.0	0.031	0.031	7.2	0.169	0.38	0.00	0.00	0.00	0.53	1.58
55	FB	2	22.80	17.300	32.9	0.0	5.5	16.0	0.0	2.0	0.1	30.0	0.4	5.24	107.0	0.031	0.031	7.2	0.169	0.38	0.00	0.00	0.00	0.52	1.58
TRIBUTARY # 056 (Fourmile Bayou Oxbow) ENTERS HERE																									
98	F2	4	22.70	20.233	32.9	0.0	5.4	14.9	0.0	2.0	0.1	32.1	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.52	1.58
99	F2	4	22.60	20.233	32.9	0.0	5.3	14.8	0.0	2.0	0.1	34.1	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.52	1.58
100	F2	4	22.50	20.233	32.9	0.0	5.3	14.7	0.0	2.0	0.1	36.2	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.52	1.58
101	F2	4	22.40	20.233	32.9	0.0	5.2	14.6	0.0	2.0	0.1	38.2	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.52	1.58
102	F2	4	22.30	20.233	32.9	0.0	5.2	14.4	0.0	2.0	0.1	40.3	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.52	1.58
103	F2	4	22.20	20.233	32.9	0.0	5.2	14.3	0.0	2.0	0.1	42.4	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.58
104	F2	4	22.10	20.233	32.9	0.0	5.1	14.2	0.0	2.0	0.1	44.4	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.58
105	F2	4	22.00	20.233	32.9	0.0	5.1	14.1	0.0	2.0	0.1	46.5	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
106	F2	4	21.90	20.233	32.9	0.0	5.1	14.0	0.0	2.0	0.1	48.5	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
107	F2	4	21.80	20.233	32.9	0.0	5.1	13.9	0.0	2.0	0.1	50.6	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
108	F2	4	21.70	20.233	32.9	0.0	5.0	13.8	0.0	2.0	0.1	52.6	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
109	F2	4	21.60	20.233	32.9	0.0	5.0	13.7	0.0	2.0	0.1	54.7	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
110	F2	4	21.50	20.233	32.9	0.0	5.0	13.6	0.0	2.0	0.1	56.8	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
111	F2	4	21.40	20.233	32.9	0.0	5.0	13.5	0.0	2.0	0.1	58.8	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
112	F2	4	21.30	20.233	32.9	0.0	5.0	13.4	0.0	2.0	0.1	60.9	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
113	F2	4	21.20	20.233	32.9	0.0	5.1	13.3	0.0	2.0	0.1	62.9	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57

EXPANDED CAPSULE SUMMARY FOR Grassy Lake

												ADVEC	MEAN	DO	REAER	BOD1	BOD1	BOD2	BOD2	NH3					
IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	VELO	VELO	SAT	RATE	DECA	SETT	DECA	SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d

114	F2	4	21.10	20.233	32.8	0.0	5.1	13.2	0.0	2.0	0.1	65.0	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
115	F2	4	21.00	20.233	32.8	0.0	5.1	13.1	0.0	2.0	0.1	67.1	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
116	F2	4	20.90	20.233	32.8	0.0	5.1	13.0	0.0	2.0	0.1	69.1	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
117	F2	4	20.80	20.233	32.8	0.0	5.1	12.9	0.0	2.0	0.1	71.2	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
118	F2	4	20.70	20.233	32.8	0.0	5.2	12.8	0.0	2.0	0.1	73.2	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
119	F2	4	20.60	20.233	32.8	0.0	5.2	12.7	0.0	2.0	0.1	75.3	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
120	F2	4	20.50	20.233	32.8	0.0	5.3	12.6	0.0	2.0	0.1	77.4	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.51	1.57
121	F2	4	20.40	20.233	32.8	0.0	5.3	12.5	0.0	2.0	0.1	79.4	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.52	1.57
122	F2	4	20.30	20.233	32.8	0.0	5.4	12.4	0.0	2.0	0.1	81.5	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.52	1.57
123	F2	4	20.20	20.233	32.8	0.0	5.4	12.3	0.0	2.0	0.1	83.5	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.52	1.57
124	F2	4	20.10	20.233	32.8	0.0	5.5	12.2	0.0	2.0	0.1	85.6	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.52	1.57
125	F2	4	20.00	20.233	32.8	0.0	5.6	12.1	0.0	2.0	0.1	87.6	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.52	1.57
126	F2	4	19.90	20.233	32.8	0.0	5.6	12.0	0.0	2.0	0.1	89.7	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.52	1.57
127	F2	4	19.80	20.233	32.8	0.0	5.7	11.9	0.0	2.0	0.1	91.8	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.52	1.57
128	F2	4	19.70	20.233	32.8	0.0	5.8	11.9	0.0	2.0	0.1	93.8	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.52	1.57
129	F2	4	19.60	20.233	32.8	0.0	5.9	11.8	0.0	2.0	0.1	95.9	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.53	1.57
130	F2	4	19.50	20.233	32.8	0.0	6.0	11.7	0.0	2.0	0.1	97.9	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.53	1.57
131	F2	4	19.40	20.233	32.8	0.0	6.2	11.9	0.0	2.0	0.1	100.0	0.2	4.39	87.0	0.053	0.053	7.2	0.201	0.38	0.00	0.00	0.00	0.53	1.57
WASTELOAD # 132 (Bayou Magazille) ENTERS HERE																									
132	V3	5	19.30	30.267	32.8	0.0	7.0	14.3	0.0	2.2	0.1	100.1	0.2	1.34	1892.0	0.012	0.012	7.2	0.706	0.29	0.00	0.00	0.00	0.54	1.34
133	V3	5	19.20	30.267	32.8	0.0	7.3	15.1	0.0	2.2	0.1	100.2	0.2	1.34	1892.0	0.012	0.012	7.2	0.706	0.29	0.00	0.00	0.00	0.55	1.34
134	V3	5	19.10	30.267	32.8	0.0	7.6	15.9	0.0	2.2	0.1	100.3	0.2	1.34	1892.0	0.012	0.012	7.2	0.706	0.29	0.00	0.00	0.00	0.55	1.34
135	V3	5	19.00	30.267	32.8	0.0	7.8	16.6	0.0	2.2	0.1	100.4	0.2	1.34	1892.0	0.012	0.012	7.2	0.706	0.29	0.00	0.00	0.00	0.55	1.34
136	V3	5	18.90	30.267	32.8	0.0	8.0	17.4	0.0	2.2	0.1	100.5	0.2	1.34	1892.0	0.012	0.012	7.2	0.706	0.29	0.00	0.00	0.00	0.55	1.34
137	V3	5	18.80	30.267	32.8	0.0	8.2	18.1	0.0	2.2	0.1	100.6	0.2	1.34	1892.0	0.012	0.012	7.2	0.706	0.29	0.00	0.00	0.00	0.55	1.34
138	V3	5	18.70	30.267	32.8	0.0	8.4	18.8	0.0	2.2	0.1	100.7	0.2	1.34	1892.0	0.012	0.012	7.2	0.706	0.29	0.00	0.00	0.00	0.55	1.34
139	V3	5	18.60	30.267	32.8	0.0	8.5	19.5	0.0	2.2	0.1	100.8	0.2	1.34	1892.0	0.012	0.012	7.2	0.706	0.29	0.00	0.00	0.00	0.55	1.34
WASTELOAD # 140 (NPDES Group1) ENTERS HERE																									
140	V3	5	18.50	30.269	32.8	0.0	8.6	20.2	0.0	2.2	0.1	100.9	0.2	1.34	1892.0	0.012	0.012	7.2	0.706	0.29	0.00	0.00	0.00	0.55	1.34
141	V3	5	18.40	30.269	32.8	0.0	8.7	20.8	0.0	2.3	0.1	101.0	0.2	1.34	1892.0	0.012	0.012	7.2	0.706	0.29	0.00	0.00	0.00	0.55	1.34
142	V3	5	18.30	30.269	32.8	0.0	8.7	21.5	0.0	2.3	0.1	101.1	0.2	1.34	1892.0	0.012	0.012	7.2	0.706	0.29	0.00	0.00	0.00	0.55	1.34
143	V3	5	18.20	30.269	32.8	0.0	8.8	22.1	0.0	2.3	0.1	101.2	0.2	1.34	1892.0	0.012	0.012	7.2	0.706	0.29	0.00	0.00	0.00	0.55	1.34
144	V3	5	18.10	30.269	32.7	0.0	8.8	22.7	0.0	2.3	0.1	101.3	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.34
145	V3	5	18.00	30.269	32.7	0.0	8.8	23.3	0.0	2.3	0.1	101.4	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.34
146	V3	5	17.90	30.269	32.7	0.0	8.8	23.8	0.0	2.3	0.1	101.5	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.34
147	V3	5	17.80	30.269	32.7	0.0	8.8	24.4	0.0	2.3	0.1	101.6	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.34
148	V3	5	17.70	30.269	32.7	0.0	8.7	24.9	0.0	2.3	0.1	101.7	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.34
WASTELOAD # 149 (LAG540112) ENTERS HERE																									
149	V3	5	17.60	30.269	32.7	0.0	8.7	25.4	0.0	2.3	0.1	101.8	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.34
150	V3	5	17.50	30.269	32.7	0.0	8.6	25.9	0.0	2.3	0.1	101.9	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.34
151	V3	5	17.40	30.269	32.7	0.0	8.6	26.4	0.0	2.4	0.1	102.0	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.34
152	V3	5	17.30	30.269	32.7	0.0	8.5	26.9	0.0	2.4	0.1	102.1	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.34
153	V3	5	17.20	30.269	32.7	0.0	8.4	27.4	0.0	2.4	0.1	102.2	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.34
154	V3	5	17.10	30.269	32.7	0.0	8.3	27.8	0.0	2.4	0.1	102.3	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.34
155	V3	5	17.00	30.269	32.7	0.0	8.2	28.3	0.0	2.4	0.1	102.4	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.34
156	V3	5	16.90	30.269	32.7	0.0	8.2	28.7	0.0	2.4	0.1	102.6	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.33
157	V3	5	16.80	30.269	32.7	0.0	8.1	29.1	0.0	2.4	0.1	102.7	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.33
158	V3	5	16.70	30.269	32.7	0.0	8.0	29.6	0.0	2.4	0.1	102.8	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.33
159	V3	5	16.60	30.269	32.7	0.0	7.8	30.0	0.0	2.4	0.1	102.9	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.33
160	V3	5	16.50	30.269	32.7	0.0	7.7	30.3	0.0	2.4	0.1	103.0	0.2	1.34	1892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.55	1.33

161	V3	5	16.40	30.269	32.7	0.0	7.6	30.7	0.0	2.4	0.1	103.1	0.2	1.341892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.54	1.33
162	V3	5	16.30	30.269	32.7	0.0	7.5	31.1	0.0	2.5	0.1	103.2	0.2	1.341892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.54	1.33
163	V3	5	16.20	30.269	32.7	0.0	7.4	31.4	0.0	2.5	0.1	103.3	0.2	1.341892.0	0.012	0.012	7.2	0.705	0.29	0.00	0.00	0.00	0.54	1.33
164	V3	5	16.10	30.269	32.7	0.0	7.3	31.8	0.0	2.5	0.1	103.4	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.54	1.33
165	V3	5	16.00	30.269	32.7	0.0	7.2	32.1	0.0	2.5	0.1	103.5	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.54	1.33
166	V3	5	15.90	30.269	32.7	0.0	7.1	32.5	0.0	2.5	0.1	103.6	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.54	1.33
167	V3	5	15.80	30.269	32.7	0.0	7.0	32.8	0.0	2.5	0.1	103.7	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.54	1.33
168	V3	5	15.70	30.269	32.6	0.0	6.8	33.1	0.0	2.5	0.1	103.8	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.53	1.33
169	V3	5	15.60	30.269	32.6	0.0	6.7	33.4	0.0	2.5	0.1	103.9	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.53	1.33
170	V3	5	15.50	30.269	32.6	0.0	6.6	33.7	0.0	2.5	0.1	104.0	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.53	1.33
171	V3	5	15.40	30.269	32.6	0.0	6.5	34.0	0.0	2.5	0.1	104.1	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.53	1.33
172	V3	5	15.30	30.269	32.6	0.0	6.4	34.3	0.0	2.6	0.1	104.2	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.53	1.33
173	V3	5	15.20	30.269	32.6	0.0	6.3	34.6	0.0	2.6	0.1	104.3	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.52	1.33
174	V3	5	15.10	30.269	32.6	0.0	6.2	34.8	0.0	2.6	0.1	104.4	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.52	1.33
175	V3	5	15.00	30.269	32.6	0.0	6.1	35.1	0.0	2.6	0.1	104.5	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.52	1.33
176	V3	5	14.90	30.269	32.6	0.0	6.0	35.3	0.0	2.6	0.1	104.6	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.52	1.33
177	V3	5	14.80	30.269	32.6	0.0	5.9	35.6	0.0	2.6	0.1	104.7	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.52	1.33
178	V3	5	14.70	30.269	32.6	0.0	5.7	35.8	0.0	2.6	0.1	104.8	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.51	1.33
179	V3	5	14.60	30.269	32.6	0.0	5.6	35.9	0.0	2.6	0.1	104.9	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.51	1.33
180	V3	5	14.50	30.269	32.6	0.0	5.5	35.5	0.0	2.6	0.1	105.0	0.2	1.341892.0	0.012	0.012	7.2	0.704	0.29	0.00	0.00	0.00	0.51	1.33
181	V2	6	14.40	30.269	32.6	0.0	5.2	33.2	0.0	2.6	0.1	104.5	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.50	3.32
182	V2	6	14.30	30.269	32.6	0.0	5.1	31.5	0.0	2.6	0.1	104.1	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.50	3.32
183	V2	6	14.20	30.269	32.6	0.0	5.1	29.9	0.0	2.6	0.1	103.6	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.50	3.32
184	V2	6	14.10	30.269	32.6	0.0	5.2	28.4	0.0	2.5	0.1	103.1	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.50	3.32

EXPANDED CAPSULE SUMMARY FOR Grassy Lake

														ADVEC	MEAN	DO	REAER	BOD1	BOD1	BOD2	BOD2	NH3		
IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	VELO	VELO	SAT	RATE	DECA	SETT	DECA	SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
185	V2	6	14.00	30.269	32.6	0.0	5.3	27.0	0.0	2.5	0.1	102.6	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.51	3.32
186	V2	6	13.90	30.269	32.6	0.0	5.6	25.8	0.0	2.5	0.1	102.2	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.51	3.32
187	V2	6	13.80	30.269	32.6	0.0	5.9	24.6	0.0	2.5	0.1	101.7	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.52	3.32
188	V2	6	13.70	30.269	32.6	0.0	6.2	23.6	0.0	2.5	0.1	101.2	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.52	3.32
189	V2	6	13.60	30.269	32.6	0.0	6.5	22.6	0.0	2.4	0.1	100.7	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.53	3.32
190	V2	6	13.50	30.269	32.6	0.0	6.9	21.7	0.0	2.4	0.1	100.3	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.53	3.31
191	V2	6	13.40	30.269	32.6	0.0	7.3	20.9	0.0	2.4	0.1	99.8	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
192	V2	6	13.30	30.269	32.6	0.0	7.6	20.2	0.0	2.4	0.1	99.3	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
193	V2	6	13.20	30.269	32.6	0.0	8.0	19.5	0.0	2.4	0.1	98.8	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
194	V2	6	13.10	30.269	32.6	0.0	8.3	18.9	0.0	2.3	0.1	98.4	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
195	V2	6	13.00	30.269	32.6	0.0	8.7	18.3	0.0	2.3	0.1	97.9	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
196	V2	6	12.90	30.269	32.6	0.0	9.0	17.8	0.0	2.3	0.1	97.4	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
197	V2	6	12.80	30.269	32.6	0.0	9.3	17.3	0.0	2.3	0.1	96.9	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
198	V2	6	12.70	30.269	32.6	0.0	9.6	16.9	0.0	2.3	0.1	96.5	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
199	V2	6	12.60	30.269	32.6	0.0	9.9	16.5	0.0	2.3	0.1	96.0	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
200	V2	6	12.50	30.269	32.6	0.0	10.1	16.1	0.0	2.2	0.1	95.5	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
201	V2	6	12.40	30.269	32.6	0.0	10.4	15.8	0.0	2.2	0.1	95.0	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
202	V2	6	12.30	30.269	32.6	0.0	10.6	15.5	0.0	2.2	0.1	94.6	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
203	V2	6	12.20	30.269	32.6	0.0	10.8	15.2	0.0	2.2	0.1	94.1	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
204	V2	6	12.10	30.269	32.6	0.0	11.0	14.9	0.0	2.2	0.1	93.6	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
205	V2	6	12.00	30.269	32.6	0.0	11.2	14.7	0.0	2.1	0.1	93.1	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
206	V2	6	11.90	30.269	32.6	0.0	11.4	14.5	0.0	2.1	0.1	92.7	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31

207	V2	6	11.80	30.269	32.6	0.0	11.5	14.3	0.0	2.1	0.1	92.2	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
	WASTELOAD # 208 (LAG560026) ENTERS HERE																								
208	V2	6	11.70	30.271	32.6	0.0	11.6	14.1	0.0	2.1	0.1	91.7	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
209	V2	6	11.60	30.271	32.6	0.0	11.7	13.9	0.0	2.1	0.1	91.2	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
210	V2	6	11.50	30.271	32.6	0.0	11.8	13.7	0.0	2.1	0.1	90.8	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
211	V2	6	11.40	30.271	32.6	0.0	11.9	13.6	0.0	2.1	0.1	90.3	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
212	V2	6	11.30	30.271	32.6	0.0	12.0	13.5	0.0	2.0	0.1	89.8	0.2	2.134092.0	0.003	0.003	7.2	0.443	0.29	0.00	0.00	0.00	0.54	3.31
213	V2	6	11.20	30.271	32.6	0.0	12.1	13.4	0.0	2.0	0.1	89.4	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.29	0.00	0.00	0.00	0.54	3.31
214	V2	6	11.10	30.271	32.6	0.0	12.1	13.2	0.0	2.0	0.1	88.9	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.29	0.00	0.00	0.00	0.54	3.31
215	V2	6	11.00	30.271	32.6	0.0	12.2	13.1	0.0	2.0	0.1	88.4	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.29	0.00	0.00	0.00	0.54	3.31
216	V2	6	10.90	30.271	32.6	0.0	12.2	13.1	0.0	2.0	0.1	87.9	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
217	V2	6	10.80	30.271	32.6	0.0	12.2	13.0	0.0	2.0	0.1	87.5	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
218	V2	6	10.70	30.271	32.6	0.0	12.3	12.9	0.0	1.9	0.1	87.0	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
219	V2	6	10.60	30.271	32.6	0.0	12.3	12.8	0.0	1.9	0.1	86.5	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
220	V2	6	10.50	30.271	32.6	0.0	12.3	12.8	0.0	1.9	0.1	86.0	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
221	V2	6	10.40	30.271	32.6	0.0	12.3	12.7	0.0	1.9	0.1	85.6	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
222	V2	6	10.30	30.271	32.6	0.0	12.3	12.6	0.0	1.9	0.1	85.1	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
223	V2	6	10.20	30.271	32.6	0.0	12.2	12.6	0.0	1.9	0.1	84.6	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
224	V2	6	10.10	30.271	32.6	0.0	12.2	12.5	0.0	1.9	0.1	84.1	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
225	V2	6	10.00	30.271	32.6	0.0	12.2	12.5	0.0	1.8	0.1	83.7	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
226	V2	6	9.90	30.271	32.6	0.0	12.2	12.5	0.0	1.8	0.1	83.2	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
227	V2	6	9.80	30.271	32.6	0.0	12.1	12.4	0.0	1.8	0.1	82.7	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
228	V2	6	9.70	30.271	32.6	0.0	12.1	12.4	0.0	1.8	0.1	82.2	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
229	V2	6	9.60	30.271	32.6	0.0	12.0	12.4	0.0	1.8	0.1	81.8	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
230	V2	6	9.50	30.271	32.6	0.0	12.0	12.3	0.0	1.8	0.1	81.3	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
231	V2	6	9.40	30.271	32.6	0.0	11.9	12.3	0.0	1.8	0.1	80.8	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
232	V2	6	9.30	30.271	32.6	0.0	11.9	12.3	0.0	1.7	0.1	80.3	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
233	V2	6	9.20	30.271	32.6	0.0	11.8	12.3	0.0	1.7	0.1	79.9	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
234	V2	6	9.10	30.271	32.6	0.0	11.8	12.3	0.0	1.7	0.1	79.4	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
235	V2	6	9.00	30.271	32.6	0.0	11.7	12.2	0.0	1.7	0.1	78.9	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
236	V2	6	8.90	30.271	32.6	0.0	11.6	12.2	0.0	1.7	0.1	78.4	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
237	V2	6	8.80	30.271	32.6	0.0	11.6	12.2	0.0	1.7	0.1	78.0	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
238	V2	6	8.70	30.271	32.5	0.0	11.5	12.2	0.0	1.7	0.1	77.5	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
239	V2	6	8.60	30.271	32.5	0.0	11.4	12.2	0.0	1.7	0.1	77.0	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
240	V2	6	8.50	30.271	32.5	0.0	11.3	12.2	0.0	1.6	0.1	76.6	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
241	V2	6	8.40	30.271	32.5	0.0	11.3	12.2	0.0	1.6	0.1	76.1	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
242	V2	6	8.30	30.271	32.5	0.0	11.2	12.2	0.0	1.6	0.1	75.6	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
243	V2	6	8.20	30.271	32.5	0.0	11.1	12.1	0.0	1.6	0.1	75.1	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
244	V2	6	8.10	30.271	32.5	0.0	11.0	12.1	0.0	1.6	0.1	74.7	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.31
245	V2	6	8.00	30.271	32.5	0.0	11.0	12.1	0.0	1.6	0.1	74.2	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
246	V2	6	7.90	30.271	32.5	0.0	10.9	12.1	0.0	1.6	0.1	73.7	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
247	V2	6	7.80	30.271	32.5	0.0	10.8	12.1	0.0	1.6	0.1	73.2	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
248	V2	6	7.70	30.271	32.5	0.0	10.7	12.1	0.0	1.6	0.1	72.8	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
249	V2	6	7.60	30.271	32.5	0.0	10.6	12.1	0.0	1.5	0.1	72.3	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
250	V2	6	7.50	30.271	32.5	0.0	10.5	12.1	0.0	1.5	0.1	71.8	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
251	V2	6	7.40	30.271	32.5	0.0	10.5	12.1	0.0	1.5	0.1	71.3	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
252	V2	6	7.30	30.271	32.5	0.0	10.4	12.1	0.0	1.5	0.1	70.9	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
253	V2	6	7.20	30.271	32.5	0.0	10.3	12.1	0.0	1.5	0.1	70.4	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
254	V2	6	7.10	30.271	32.5	0.0	10.2	12.1	0.0	1.5	0.1	69.9	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
255	V2	6	7.00	30.271	32.5	0.0	10.1	12.1	0.0	1.5	0.1	69.4	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30

256 V2 6 6.90 30.271 32.5 0.0 10.0 12.1 0.0 1.5 0.1 69.0 0.2 2.134092.0 0.003 0.003 7.2 0.442 0.28 0.00 0.00 0.00 0.54 3.30
257 V2 6 6.80 30.271 32.5 0.0 9.9 12.1 0.0 1.5 0.1 68.5 0.2 2.134092.0 0.003 0.003 7.2 0.442 0.28 0.00 0.00 0.00 0.54 3.30
EXPANDED CAPSULE SUMMARY FOR Grassy Lake

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	WIDTH	VELO	VELO	DO SAT	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	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
258	V2	6	6.70	30.271	32.5	0.0	9.9	12.1	0.0	1.4	0.1	68.0	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
259	V2	6	6.60	30.271	32.5	0.0	9.8	12.1	0.0	1.4	0.1	67.5	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
260	V2	6	6.50	30.271	32.5	0.0	9.7	12.1	0.0	1.4	0.1	67.1	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
261	V2	6	6.40	30.271	32.5	0.0	9.6	12.1	0.0	1.4	0.1	66.6	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
262	V2	6	6.30	30.271	32.5	0.0	9.5	12.1	0.0	1.4	0.1	66.1	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
263	V2	6	6.20	30.271	32.5	0.0	9.4	12.1	0.0	1.4	0.1	65.6	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
WASTELOAD # 264 (NPDES Group2) ENTERS HERE																									
264	V2	6	6.10	30.282	32.5	0.0	9.3	12.1	0.0	1.4	0.1	65.2	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
265	V2	6	6.00	30.282	32.5	0.0	9.2	12.1	0.0	1.4	0.1	64.7	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
266	V2	6	5.90	30.282	32.5	0.0	9.1	12.1	0.0	1.4	0.1	64.2	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
267	V2	6	5.80	30.282	32.5	0.0	9.0	12.1	0.0	1.4	0.1	63.8	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
268	V2	6	5.70	30.282	32.5	0.0	8.9	12.1	0.0	1.3	0.1	63.3	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
269	V2	6	5.60	30.282	32.5	0.0	8.9	12.1	0.0	1.3	0.1	62.8	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
270	V2	6	5.50	30.282	32.5	0.0	8.8	12.1	0.0	1.3	0.1	62.3	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
271	V2	6	5.40	30.282	32.5	0.0	8.7	12.1	0.0	1.3	0.1	61.9	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
272	V2	6	5.30	30.282	32.5	0.0	8.6	12.1	0.0	1.3	0.1	61.4	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
273	V2	6	5.20	30.282	32.5	0.0	8.5	12.1	0.0	1.3	0.1	60.9	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
274	V2	6	5.10	30.282	32.5	0.0	8.4	12.1	0.0	1.3	0.1	60.4	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
275	V2	6	5.00	30.282	32.5	0.0	8.3	12.1	0.0	1.3	0.1	60.0	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
276	V2	6	4.90	30.282	32.5	0.0	8.2	12.1	0.0	1.3	0.1	59.5	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
277	V2	6	4.80	30.282	32.5	0.0	8.1	12.1	0.0	1.3	0.1	59.0	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
278	V2	6	4.70	30.282	32.5	0.0	8.0	12.1	0.0	1.2	0.1	58.5	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
279	V2	6	4.60	30.282	32.5	0.0	7.9	12.1	0.0	1.2	0.1	58.1	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
280	V2	6	4.50	30.282	32.5	0.0	7.8	12.1	0.0	1.2	0.1	57.6	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
281	V2	6	4.40	30.282	32.5	0.0	7.8	12.1	0.0	1.2	0.1	57.1	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
282	V2	6	4.30	30.282	32.5	0.0	7.7	12.1	0.0	1.2	0.1	56.6	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
283	V2	6	4.20	30.282	32.5	0.0	7.6	12.1	0.0	1.2	0.1	56.2	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
284	V2	6	4.10	30.282	32.5	0.0	7.5	12.1	0.0	1.2	0.1	55.7	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.54	3.30
285	V2	6	4.00	30.282	32.5	0.0	7.4	12.1	0.0	1.2	0.1	55.2	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
286	V2	6	3.90	30.282	32.5	0.0	7.3	12.1	0.0	1.2	0.1	54.7	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
287	V2	6	3.80	30.282	32.5	0.0	7.2	12.1	0.0	1.2	0.1	54.3	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
288	V2	6	3.70	30.282	32.5	0.0	7.1	12.1	0.0	1.2	0.1	53.8	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
289	V2	6	3.60	30.282	32.5	0.0	7.0	12.1	0.0	1.2	0.1	53.3	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
290	V2	6	3.50	30.282	32.5	0.0	6.9	12.1	0.0	1.1	0.1	52.8	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
291	V2	6	3.40	30.282	32.5	0.0	6.8	12.1	0.0	1.1	0.1	52.4	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
292	V2	6	3.30	30.282	32.5	0.0	6.7	12.1	0.0	1.1	0.1	51.9	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.53	3.30
293	V2	6	3.20	30.282	32.5	0.0	6.7	12.1	0.0	1.1	0.1	51.4	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
294	V2	6	3.10	30.282	32.5	0.0	6.6	12.1	0.0	1.1	0.1	50.9	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
295	V2	6	3.00	30.282	32.5	0.0	6.5	12.1	0.0	1.1	0.1	50.5	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
296	V2	6	2.90	30.282	32.5	0.0	6.4	12.0	0.0	1.1	0.1	50.0	0.2	2.134092.0	0.003	0.003	7.2	0.442	0.28	0.00	0.00	0.00	0.52	3.30
297	V1	7	2.80	30.282	32.4	0.0	6.4	11.8	0.0	1.1	0.1	48.3	0.1	1.95 767.0	0.020	0.020	7.3	0.482	0.35	0.00	0.00	0.00	0.52	0.88
298	V1	7	2.70	30.282	32.4	0.0	6.4	11.6	0.0	1.1	0.1	46.7	0.1	1.95 767.0	0.020	0.020	7.3	0.482	0.35	0.00	0.00	0.00	0.52	0.87
299	V1	7	2.60	30.282	32.3	0.0	6.4	11.4	0.0	1.1	0.1	45.0	0.1	1.95 767.0	0.020	0.020	7.3	0.481	0.35	0.00	0.00	0.00	0.51	0.87
300	V1	7	2.50	30.282	32.3	0.0	6.4	11.1	0.0	1.1	0.1	43.4	0.1	1.95 767.0	0.020	0.020	7.3	0.481	0.35	0.00	0.00	0.00	0.51	0.87

301	V1	7	2.40	30.282	32.2	0.0	6.4	10.9	0.0	1.1	0.1	41.7	0.1	1.95	767.0	0.020	0.020	7.3	0.480	0.35	0.00	0.00	0.00	0.51	0.86
302	V1	7	2.30	30.282	32.1	0.0	6.3	10.7	0.0	1.1	0.1	40.1	0.1	1.95	767.0	0.020	0.020	7.3	0.480	0.35	0.00	0.00	0.00	0.51	0.86
303	V1	7	2.20	30.282	32.1	0.0	6.3	10.5	0.0	1.1	0.1	38.4	0.1	1.95	767.0	0.020	0.020	7.3	0.479	0.35	0.00	0.00	0.00	0.50	0.86
304	V1	7	2.10	30.282	32.0	0.0	6.3	10.3	0.0	1.1	0.1	36.8	0.1	1.95	767.0	0.020	0.020	7.3	0.479	0.35	0.00	0.00	0.00	0.50	0.85
305	V1	7	2.00	30.282	32.0	0.0	6.3	10.1	0.0	1.1	0.1	35.1	0.1	1.95	767.0	0.020	0.020	7.3	0.479	0.35	0.00	0.00	0.00	0.50	0.85
306	V1	7	1.90	30.282	31.9	0.0	6.2	9.9	0.0	1.1	0.1	33.4	0.1	1.95	767.0	0.020	0.020	7.3	0.478	0.35	0.00	0.00	0.00	0.49	0.85
307	V1	7	1.80	30.282	31.9	0.0	6.2	9.7	0.0	1.1	0.1	31.8	0.1	1.95	767.0	0.020	0.020	7.3	0.478	0.34	0.00	0.00	0.00	0.49	0.84
308	V1	7	1.70	30.282	31.8	0.0	6.2	9.5	0.0	1.1	0.1	30.1	0.1	1.95	767.0	0.020	0.020	7.3	0.477	0.34	0.00	0.00	0.00	0.49	0.84
309	V1	7	1.60	30.282	31.7	0.0	6.1	9.3	0.0	1.1	0.1	28.5	0.1	1.95	767.0	0.020	0.020	7.3	0.477	0.34	0.00	0.00	0.00	0.49	0.84
310	V1	7	1.50	30.282	31.7	0.0	6.1	9.2	0.0	1.1	0.1	26.8	0.1	1.95	767.0	0.020	0.020	7.3	0.476	0.34	0.00	0.00	0.00	0.48	0.83
311	V1	7	1.40	30.282	31.6	0.0	6.0	9.0	0.0	1.1	0.1	25.2	0.1	1.95	767.0	0.020	0.020	7.4	0.476	0.34	0.00	0.00	0.00	0.48	0.83
312	V1	7	1.30	30.282	31.6	0.0	6.0	8.8	0.0	1.1	0.1	23.5	0.1	1.95	767.0	0.020	0.020	7.4	0.475	0.34	0.00	0.00	0.00	0.48	0.83
313	V1	7	1.20	30.282	31.5	0.0	5.9	8.7	0.0	1.1	0.1	21.9	0.1	1.95	767.0	0.020	0.020	7.4	0.475	0.34	0.00	0.00	0.00	0.47	0.83
314	V1	7	1.10	30.282	31.4	0.0	5.9	8.5	0.0	1.1	0.1	20.2	0.1	1.95	767.0	0.020	0.020	7.4	0.474	0.34	0.00	0.00	0.00	0.47	0.82
315	V1	7	1.00	30.282	31.4	0.0	5.8	8.3	0.0	1.1	0.1	18.6	0.1	1.95	767.0	0.020	0.020	7.4	0.474	0.34	0.00	0.00	0.00	0.47	0.82
316	V1	7	0.90	30.282	31.3	0.0	5.7	8.2	0.0	1.1	0.1	16.9	0.1	1.95	767.0	0.020	0.020	7.4	0.473	0.34	0.00	0.00	0.00	0.46	0.82
317	V1	7	0.80	30.282	31.3	0.0	5.7	8.0	0.0	1.1	0.1	15.2	0.1	1.95	767.0	0.020	0.020	7.4	0.473	0.34	0.00	0.00	0.00	0.46	0.81
318	V1	7	0.70	30.282	31.2	0.0	5.6	7.9	0.0	1.1	0.1	13.6	0.1	1.95	767.0	0.020	0.020	7.4	0.472	0.33	0.00	0.00	0.00	0.46	0.81
WASTELOAD # 319 (NPDES Group3) ENTERS HERE																									
319	V1	7	0.60	30.282	31.2	0.0	5.5	7.7	0.0	1.1	0.1	11.9	0.1	1.95	767.0	0.020	0.020	7.4	0.472	0.33	0.00	0.00	0.00	0.45	0.81
320	V1	7	0.50	30.282	31.1	0.0	5.5	7.6	0.0	1.1	0.1	10.3	0.1	1.95	767.0	0.020	0.020	7.4	0.471	0.33	0.00	0.00	0.00	0.45	0.80
321	V1	7	0.40	30.282	31.0	0.0	5.4	7.4	0.0	1.1	0.1	8.6	0.1	1.95	767.0	0.020	0.020	7.4	0.471	0.33	0.00	0.00	0.00	0.45	0.80
322	V1	7	0.30	30.282	31.0	0.0	5.3	7.3	0.0	1.1	0.1	7.0	0.1	1.95	767.0	0.020	0.020	7.4	0.470	0.33	0.00	0.00	0.00	0.44	0.80
323	V1	7	0.20	30.282	30.9	0.0	5.2	7.2	0.0	1.1	0.1	5.3	0.1	1.95	767.0	0.020	0.020	7.4	0.470	0.33	0.00	0.00	0.00	0.44	0.80
324	V1	7	0.10	30.282	30.9	0.0	5.1	7.0	0.0	1.1	0.1	3.7	0.1	1.95	767.0	0.020	0.020	7.4	0.470	0.33	0.00	0.00	0.00	0.44	0.79
325	V1	7	0.00	30.282	30.8	0.0	5.0	6.5	0.0	1.0	0.1	2.0	0.1	1.95	767.0	0.020	0.020	7.5	0.469	0.33	0.00	0.00	0.00	0.43	0.79

EXPANDED CAPSULE SUMMARY FOR Fourmile Bayou Oxbow

													ADVEC	MEAN	DO	REAER	BOD1	BOD1	BOD2	BOD2	NH3				
IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	VELO	VELO	SAT	RATE	DECA	SETT	DECA	SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
56	OB	3	4.10	2.933	33.9	0.0	6.6	24.5	0.0	1.7	0.1	93.5	0.4	2.50	87.0	0.013	0.013	7.1	0.360	0.40	0.00	0.00	0.00	0.58	1.68
57	OB	3	4.00	2.933	33.9	0.0	6.5	23.8	0.0	1.7	0.1	91.9	0.4	2.50	87.0	0.013	0.013	7.1	0.359	0.40	0.00	0.00	0.00	0.58	1.67
58	OB	3	3.90	2.933	33.8	0.0	6.4	23.1	0.0	1.7	0.1	90.4	0.4	2.50	87.0	0.013	0.013	7.1	0.359	0.40	0.00	0.00	0.00	0.58	1.67
59	OB	3	3.80	2.933	33.8	0.0	6.3	22.5	0.0	1.7	0.1	88.8	0.4	2.50	87.0	0.013	0.013	7.1	0.359	0.40	0.00	0.00	0.00	0.58	1.67
60	OB	3	3.70	2.933	33.8	0.0	6.2	21.8	0.0	1.7	0.1	87.3	0.4	2.50	87.0	0.013	0.013	7.1	0.359	0.40	0.00	0.00	0.00	0.57	1.67
61	OB	3	3.60	2.933	33.8	0.0	6.1	21.2	0.0	1.7	0.1	85.7	0.4	2.50	87.0	0.013	0.013	7.1	0.359	0.40	0.00	0.00	0.00	0.57	1.66
62	OB	3	3.50	2.933	33.7	0.0	6.1	20.6	0.0	1.7	0.1	84.2	0.4	2.50	87.0	0.013	0.013	7.1	0.359	0.39	0.00	0.00	0.00	0.57	1.66
63	OB	3	3.40	2.933	33.7	0.0	6.0	20.0	0.0	1.7	0.1	82.6	0.4	2.50	87.0	0.013	0.013	7.1	0.359	0.39	0.00	0.00	0.00	0.57	1.66
64	OB	3	3.30	2.933	33.7	0.0	6.0	19.5	0.0	1.8	0.1	81.1	0.4	2.50	87.0	0.013	0.013	7.1	0.358	0.39	0.00	0.00	0.00	0.57	1.66
65	OB	3	3.20	2.933	33.7	0.0	5.9	18.9	0.0	1.8	0.1	79.5	0.4	2.50	87.0	0.013	0.013	7.1	0.358	0.39	0.00	0.00	0.00	0.56	1.65
66	OB	3	3.10	2.933	33.6	0.0	5.9	18.4	0.0	1.8	0.1	78.0	0.4	2.50	87.0	0.013	0.013	7.1	0.358	0.39	0.00	0.00	0.00	0.56	1.65
67	OB	3	3.00	2.933	33.6	0.0	5.9	17.9	0.0	1.8	0.1	76.4	0.4	2.50	87.0	0.013	0.013	7.1	0.358	0.39	0.00	0.00	0.00	0.56	1.65
68	OB	3	2.90	2.933	33.6	0.0	5.9	17.4	0.0	1.8	0.1	74.9	0.4	2.50	87.0	0.013	0.013	7.1	0.358	0.39	0.00	0.00	0.00	0.56	1.65
69	OB	3	2.80	2.933	33.6	0.0	5.8	17.0	0.0	1.8	0.1	73.3	0.4	2.50	87.0	0.013	0.013	7.1	0.358	0.39	0.00	0.00	0.00	0.56	1.64
70	OB	3	2.70	2.933	33.5	0.0	5.8	16.5	0.0	1.8	0.1	71.8	0.4	2.50	87.0	0.013	0.013	7.1	0.358	0.39	0.00	0.00	0.00	0.56	1.64
71	OB	3	2.60	2.933	33.5	0.0	5.8	16.1	0.0	1.8	0.1	70.2	0.4	2.50	87.0	0.013	0.013	7.1	0.357	0.39	0.00	0.00	0.00	0.55	1.64
72	OB	3	2.50	2.933	33.5	0.0	5.8	15.6	0.0	1.8	0.1	68.7	0.4	2.50	87.0	0.013	0.013	7.1	0.357	0.39	0.00	0.00	0.00	0.55	1.64
73	OB	3	2.40	2.933	33.5	0.0	5.8	15.2	0.0	1.8	0.1	67.1	0.4	2.50	87.0	0.013	0.013	7.1	0.357	0.39	0.00	0.00	0.00	0.55	1.64
74	OB	3	2.30	2.933	33.4	0.0	5.8	14.8	0.0	1.8	0.1	65.6	0.4	2.50	87.0	0.013	0.013	7.1	0.357	0.39	0.00	0.00	0.00	0.55	1.63
75	OB	3	2.20	2.933	33.4	0.0	5.8	14.4	0.0	1.8	0.1	64.0	0.4	2.50	87.0	0.013	0.013	7.1	0.357	0.39	0.00	0.00	0.00	0.55	1.63

76	OB	3	2.10	2.933	33.4	0.0	5.8	14.1	0.0	1.8	0.1	62.5	0.4	2.50	87.0	0.013	0.013	7.1	0.357	0.39	0.00	0.00	0.00	0.55	1.63
77	OB	3	2.00	2.933	33.4	0.0	5.8	13.7	0.0	1.8	0.1	61.0	0.4	2.50	87.0	0.013	0.013	7.1	0.357	0.39	0.00	0.00	0.00	0.55	1.63
78	OB	3	1.90	2.933	33.4	0.0	5.8	13.4	0.0	1.8	0.1	59.4	0.4	2.50	87.0	0.013	0.013	7.1	0.357	0.39	0.00	0.00	0.00	0.55	1.62
79	OB	3	1.80	2.933	33.3	0.0	5.8	13.0	0.0	1.8	0.1	57.9	0.4	2.50	87.0	0.013	0.013	7.1	0.356	0.39	0.00	0.00	0.00	0.55	1.62
80	OB	3	1.70	2.933	33.3	0.0	5.7	12.7	0.0	1.8	0.1	56.3	0.4	2.50	87.0	0.013	0.013	7.1	0.356	0.39	0.00	0.00	0.00	0.54	1.62
81	OB	3	1.60	2.933	33.3	0.0	5.7	12.4	0.0	1.8	0.1	54.8	0.4	2.50	87.0	0.013	0.013	7.1	0.356	0.39	0.00	0.00	0.00	0.54	1.62
82	OB	3	1.50	2.933	33.3	0.0	5.7	12.1	0.0	1.8	0.1	53.2	0.4	2.50	87.0	0.013	0.013	7.2	0.356	0.39	0.00	0.00	0.00	0.54	1.61
83	OB	3	1.40	2.933	33.2	0.0	5.7	11.8	0.0	1.9	0.1	51.7	0.4	2.50	87.0	0.013	0.013	7.2	0.356	0.39	0.00	0.00	0.00	0.54	1.61
84	OB	3	1.30	2.933	33.2	0.0	5.7	11.5	0.0	1.9	0.1	50.1	0.4	2.50	87.0	0.013	0.013	7.2	0.356	0.39	0.00	0.00	0.00	0.54	1.61
85	OB	3	1.20	2.933	33.2	0.0	5.7	11.2	0.0	1.9	0.1	48.6	0.4	2.50	87.0	0.013	0.013	7.2	0.356	0.38	0.00	0.00	0.00	0.54	1.61
86	OB	3	1.10	2.933	33.2	0.0	5.7	11.0	0.0	1.9	0.1	47.0	0.4	2.50	87.0	0.013	0.013	7.2	0.355	0.38	0.00	0.00	0.00	0.54	1.60
87	OB	3	1.00	2.933	33.1	0.0	5.6	10.7	0.0	1.9	0.1	45.5	0.4	2.50	87.0	0.013	0.013	7.2	0.355	0.38	0.00	0.00	0.00	0.53	1.60
88	OB	3	0.90	2.933	33.1	0.0	5.6	10.5	0.0	1.9	0.1	43.9	0.4	2.50	87.0	0.013	0.013	7.2	0.355	0.38	0.00	0.00	0.00	0.53	1.60
89	OB	3	0.80	2.933	33.1	0.0	5.6	10.2	0.0	1.9	0.1	42.4	0.4	2.50	87.0	0.013	0.013	7.2	0.355	0.38	0.00	0.00	0.00	0.53	1.60
90	OB	3	0.70	2.933	33.1	0.0	5.5	10.0	0.0	1.9	0.1	40.8	0.4	2.50	87.0	0.013	0.013	7.2	0.355	0.38	0.00	0.00	0.00	0.53	1.59
91	OB	3	0.60	2.933	33.0	0.0	5.5	9.8	0.0	1.9	0.1	39.3	0.4	2.50	87.0	0.013	0.013	7.2	0.355	0.38	0.00	0.00	0.00	0.53	1.59
92	OB	3	0.50	2.933	33.0	0.0	5.5	9.6	0.0	1.9	0.1	37.7	0.4	2.50	87.0	0.013	0.013	7.2	0.355	0.38	0.00	0.00	0.00	0.53	1.59
93	OB	3	0.40	2.933	33.0	0.0	5.4	9.3	0.0	1.9	0.1	36.2	0.4	2.50	87.0	0.013	0.013	7.2	0.354	0.38	0.00	0.00	0.00	0.52	1.59
94	OB	3	0.30	2.933	33.0	0.0	5.4	9.2	0.0	1.9	0.1	34.6	0.4	2.50	87.0	0.013	0.013	7.2	0.354	0.38	0.00	0.00	0.00	0.52	1.58
95	OB	3	0.20	2.933	32.9	0.0	5.3	9.0	0.0	1.9	0.1	33.1	0.4	2.50	87.0	0.013	0.013	7.2	0.354	0.38	0.00	0.00	0.00	0.52	1.58
96	OB	3	0.10	2.933	32.9	0.0	5.3	9.2	0.0	1.9	0.1	31.5	0.4	2.50	87.0	0.013	0.013	7.2	0.354	0.38	0.00	0.00	0.00	0.52	1.58
97	OB	3	0.00	2.933	32.9	0.0	5.2	10.6	0.0	2.0	0.1	30.0	0.4	2.50	87.0	0.013	0.013	7.2	0.354	0.38	0.00	0.00	0.00	0.52	1.58

SPECIAL REPORT: Grassy Lake

WATER QUALITY CONSTITUENT VALUES

ELEM	ENDING		TEMP	SALN		CM-I	CM-II	DO	BOD1	BOD2	EBOD#1	EBOD#2	ORG-N	NH3-N	NO3-N	TOTN	PHOS	CHL A	MACRO	COLI	NCM
NO.	km	deg C	ppt	*	*	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	**	#/100mL	*			
1	28.200	33.12	0.0	0.0	0.0	6.71	23.38	0.00	23.38	0.00	1.62	0.10	0.01	1.72	0.00	99.9	0.0	0.	0.00		
2	28.100	33.15	0.0	0.0	0.0	6.71	23.30	0.00	23.30	0.00	1.63	0.10	0.00	1.72	0.00	99.7	0.0	0.	0.00		
3	28.000	33.17	0.0	0.0	0.0	6.72	23.22	0.00	23.22	0.00	1.64	0.10	0.00	1.74	0.00	99.6	0.0	0.	0.00		
4	27.900	33.19	0.0	0.0	0.0	6.72	23.13	0.00	23.13	0.00	1.65	0.10	0.00	1.75	0.00	99.4	0.0	0.	0.00		
5	27.800	33.21	0.0	0.0	0.0	6.73	23.05	0.00	23.05	0.00	1.66	0.10	0.00	1.76	0.00	99.3	0.0	0.	0.00		
6	27.700	33.24	0.0	0.0	0.0	6.73	22.98	0.00	22.98	0.00	1.67	0.09	0.00	1.77	0.00	99.1	0.0	0.	0.00		
7	27.600	33.26	0.0	0.0	0.0	6.74	22.90	0.00	22.90	0.00	1.68	0.09	0.00	1.78	0.00	99.0	0.0	0.	0.00		
8	27.500	33.28	0.0	0.0	0.0	6.75	22.82	0.00	22.82	0.00	1.69	0.09	0.00	1.79	0.00	98.9	0.0	0.	0.00		
9	27.400	33.31	0.0	0.0	0.0	6.75	22.75	0.00	22.75	0.00	1.71	0.09	0.00	1.80	0.00	98.7	0.0	0.	0.00		
10	27.300	33.33	0.0	0.0	0.0	6.76	22.67	0.00	22.67	0.00	1.72	0.09	0.00	1.81	0.00	98.6	0.0	0.	0.00		
11	27.200	33.35	0.0	0.0	0.0	6.77	22.60	0.00	22.60	0.00	1.73	0.09	0.00	1.82	0.00	98.4	0.0	0.	0.00		
12	27.100	33.37	0.0	0.0	0.0	6.78	22.53	0.00	22.53	0.00	1.74	0.09	0.00	1.83	0.00	98.3	0.0	0.	0.00		
13	27.000	33.40	0.0	0.0	0.0	6.78	22.46	0.00	22.46	0.00	1.75	0.09	0.00	1.84	0.00	98.1	0.0	0.	0.00		
14	26.900	33.42	0.0	0.0	0.0	6.79	22.39	0.00	22.39	0.00	1.76	0.09	0.00	1.85	0.00	98.0	0.0	0.	0.00		
15	26.800	33.44	0.0	0.0	0.0	6.80	22.32	0.00	22.32	0.00	1.77	0.09	0.00	1.86	0.00	97.9	0.0	0.	0.00		
16	26.700	33.47	0.0	0.0	0.0	6.81	22.26	0.00	22.26	0.00	1.78	0.09	0.00	1.87	0.00	97.7	0.0	0.	0.00		
17	26.600	33.49	0.0	0.0	0.0	6.81	22.19	0.00	22.19	0.00	1.80	0.09	0.00	1.88	0.00	97.6	0.0	0.	0.00		
18	26.500	33.51	0.0	0.0	0.0	6.82	22.13	0.00	22.13	0.00	1.81	0.09	0.00	1.90	0.00	97.4	0.0	0.	0.00		
19	26.400	33.53	0.0	0.0	0.0	6.83	22.06	0.00	22.06	0.00	1.82	0.09	0.00	1.91	0.00	97.3	0.0	0.	0.00		
20	26.300	33.56	0.0	0.0	0.0	6.84	22.00	0.00	22.00	0.00	1.83	0.09	0.00	1.92	0.00	97.1	0.0	0.	0.00		
21	26.200	33.58	0.0	0.0	0.0	6.84	21.94	0.00	21.94	0.00	1.84	0.09	0.00	1.93	0.00	97.0	0.0	0.	0.00		
22	26.100	33.60	0.0	0.0	0.0	6.85	21.88	0.00	21.88	0.00	1.85	0.09	0.00	1.94	0.00	96.9	0.0	0.	0.00		
23	26.000	33.63	0.0	0.0	0.0	6.86	21.82	0.00	21.82	0.00	1.86	0.09	0.00	1.95	0.00	96.7	0.0	0.	0.00		
24	25.900	33.65	0.0	0.0	0.0	6.86	21.76	0.00	21.76	0.00	1.87	0.09	0.00	1.96	0.00	96.6	0.0	0.	0.00		

25	25.800	33.67	0.0	0.0	0.0	6.87	21.70	0.00	21.70	0.00	1.88	0.09	0.00	1.97	0.00	96.4	0.0	0.	0.00
26	25.700	33.69	0.0	0.0	0.0	6.87	21.64	0.00	21.64	0.00	1.89	0.09	0.00	1.98	0.00	96.3	0.0	0.	0.00
27	25.600	33.72	0.0	0.0	0.0	6.88	21.58	0.00	21.58	0.00	1.91	0.09	0.00	1.99	0.00	96.1	0.0	0.	0.00
28	25.500	33.74	0.0	0.0	0.0	6.89	21.51	0.00	21.51	0.00	1.92	0.09	0.00	2.01	0.00	96.0	0.0	0.	0.00
29	25.400	33.76	0.0	0.0	0.0	6.89	21.45	0.00	21.45	0.00	1.93	0.09	0.00	2.02	0.00	95.9	0.0	0.	0.00
30	25.300	33.79	0.0	0.0	0.0	6.90	21.39	0.00	21.39	0.00	1.94	0.09	0.00	2.03	0.00	95.7	0.0	0.	0.00
31	25.200	33.81	0.0	0.0	0.0	6.91	21.33	0.00	21.33	0.00	1.96	0.09	0.00	2.04	0.00	95.6	0.0	0.	0.00
32	25.100	33.83	0.0	0.0	0.0	6.91	21.27	0.00	21.27	0.00	1.97	0.09	0.00	2.06	0.00	95.4	0.0	0.	0.00
33	25.000	33.85	0.0	0.0	0.0	6.92	21.21	0.00	21.21	0.00	1.98	0.09	0.00	2.07	0.00	95.3	0.0	0.	0.00
34	24.900	33.88	0.0	0.0	0.0	6.92	21.14	0.00	21.14	0.00	1.99	0.09	0.00	2.08	0.00	95.1	0.0	0.	0.00
35	24.800	33.90	0.0	0.0	0.0	6.93	21.06	0.00	21.06	0.00	2.00	0.09	0.00	2.09	0.00	95.0	0.0	0.	0.00
36	24.700	33.85	0.0	0.0	0.0	6.92	20.79	0.00	20.79	0.00	2.00	0.09	0.00	2.09	0.00	91.8	0.0	0.	0.00
37	24.600	33.80	0.0	0.0	0.0	6.91	20.51	0.00	20.51	0.00	2.00	0.09	0.00	2.09	0.00	88.5	0.0	0.	0.00
38	24.500	33.75	0.0	0.0	0.0	6.89	20.22	0.00	20.22	0.00	2.01	0.09	0.00	2.09	0.00	85.2	0.0	0.	0.00
39	24.400	33.70	0.0	0.0	0.0	6.87	19.95	0.00	19.95	0.00	2.01	0.09	0.00	2.09	0.00	82.0	0.0	0.	0.00
40	24.300	33.65	0.0	0.0	0.0	6.83	19.67	0.00	19.67	0.00	2.01	0.09	0.00	2.10	0.00	78.8	0.0	0.	0.00
41	24.200	33.60	0.0	0.0	0.0	6.79	19.41	0.00	19.41	0.00	2.01	0.09	0.00	2.10	0.00	75.5	0.0	0.	0.00
42	24.100	33.55	0.0	0.0	0.0	6.75	19.14	0.00	19.14	0.00	2.01	0.09	0.00	2.10	0.00	72.2	0.0	0.	0.00
43	24.000	33.50	0.0	0.0	0.0	6.69	18.88	0.00	18.88	0.00	2.01	0.09	0.00	2.10	0.00	69.0	0.0	0.	0.00
44	23.900	33.45	0.0	0.0	0.0	6.63	18.63	0.00	18.63	0.00	2.01	0.09	0.00	2.10	0.00	65.8	0.0	0.	0.00
45	23.800	33.40	0.0	0.0	0.0	6.56	18.38	0.00	18.38	0.00	2.01	0.09	0.00	2.10	0.00	62.5	0.0	0.	0.00
46	23.700	33.35	0.0	0.0	0.0	6.49	18.13	0.00	18.13	0.00	2.01	0.09	0.00	2.10	0.00	59.2	0.0	0.	0.00
47	23.600	33.30	0.0	0.0	0.0	6.41	17.89	0.00	17.89	0.00	2.01	0.09	0.00	2.10	0.00	56.0	0.0	0.	0.00
48	23.500	33.25	0.0	0.0	0.0	6.32	17.65	0.00	17.65	0.00	2.02	0.09	0.00	2.10	0.00	52.8	0.0	0.	0.00
49	23.400	33.20	0.0	0.0	0.0	6.22	17.42	0.00	17.42	0.00	2.02	0.09	0.00	2.11	0.00	49.5	0.0	0.	0.00
50	23.300	33.15	0.0	0.0	0.0	6.12	17.19	0.00	17.19	0.00	2.02	0.09	0.00	2.11	0.00	46.2	0.0	0.	0.00
51	23.200	33.10	0.0	0.0	0.0	6.01	16.96	0.00	16.96	0.00	2.02	0.09	0.00	2.11	0.00	43.0	0.0	0.	0.00
52	23.100	33.05	0.0	0.0	0.0	5.89	16.74	0.00	16.74	0.00	2.02	0.09	0.00	2.11	0.00	39.8	0.0	0.	0.00
53	23.000	33.00	0.0	0.0	0.0	5.77	16.52	0.00	16.52	0.00	2.02	0.09	0.00	2.11	0.00	36.5	0.0	0.	0.00
54	22.900	32.95	0.0	0.0	0.0	5.64	16.29	0.00	16.29	0.00	2.02	0.09	0.00	2.11	0.00	33.2	0.0	0.	0.00
55	22.800	32.90	0.0	0.0	0.0	5.51	16.02	0.00	16.02	0.00	2.02	0.09	0.00	2.11	0.00	30.0	0.0	0.	0.00
98	22.700	32.90	0.0	0.0	0.0	5.40	14.90	0.00	14.90	0.00	2.01	0.09	0.00	2.10	0.00	32.1	0.0	0.	0.00
99	22.600	32.89	0.0	0.0	0.0	5.34	14.79	0.00	14.79	0.00	2.01	0.09	0.00	2.10	0.00	34.1	0.0	0.	0.00
100	22.500	32.89	0.0	0.0	0.0	5.29	14.67	0.00	14.67	0.00	2.01	0.09	0.00	2.10	0.00	36.2	0.0	0.	0.00
101	22.400	32.89	0.0	0.0	0.0	5.24	14.56	0.00	14.56	0.00	2.01	0.09	0.00	2.10	0.00	38.2	0.0	0.	0.00
102	22.300	32.89	0.0	0.0	0.0	5.20	14.45	0.00	14.45	0.00	2.01	0.09	0.00	2.10	0.00	40.3	0.0	0.	0.00
103	22.200	32.88	0.0	0.0	0.0	5.16	14.34	0.00	14.34	0.00	2.01	0.09	0.00	2.10	0.00	42.4	0.0	0.	0.00
104	22.100	32.88	0.0	0.0	0.0	5.13	14.23	0.00	14.23	0.00	2.01	0.09	0.00	2.10	0.00	44.4	0.0	0.	0.00
105	22.000	32.88	0.0	0.0	0.0	5.10	14.12	0.00	14.12	0.00	2.01	0.09	0.00	2.10	0.00	46.5	0.0	0.	0.00
106	21.900	32.87	0.0	0.0	0.0	5.07	14.01	0.00	14.01	0.00	2.01	0.09	0.00	2.10	0.00	48.5	0.0	0.	0.00
107	21.800	32.87	0.0	0.0	0.0	5.06	13.91	0.00	13.91	0.00	2.01	0.09	0.00	2.11	0.00	50.6	0.0	0.	0.00
108	21.700	32.87	0.0	0.0	0.0	5.04	13.80	0.00	13.80	0.00	2.01	0.09	0.00	2.11	0.00	52.6	0.0	0.	0.00
109	21.600	32.86	0.0	0.0	0.0	5.04	13.69	0.00	13.69	0.00	2.02	0.09	0.00	2.11	0.00	54.7	0.0	0.	0.00
110	21.500	32.86	0.0	0.0	0.0	5.03	13.59	0.00	13.59	0.00	2.02	0.09	0.00	2.11	0.00	56.8	0.0	0.	0.00
111	21.400	32.86	0.0	0.0	0.0	5.03	13.49	0.00	13.49	0.00	2.02	0.09	0.00	2.11	0.00	58.8	0.0	0.	0.00
112	21.300	32.86	0.0	0.0	0.0	5.04	13.38	0.00	13.38	0.00	2.02	0.09	0.00	2.11	0.00	60.9	0.0	0.	0.00
113	21.200	32.85	0.0	0.0	0.0	5.05	13.28	0.00	13.28	0.00	2.02	0.09	0.00	2.11	0.00	62.9	0.0	0.	0.00
114	21.100	32.85	0.0	0.0	0.0	5.07	13.18	0.00	13.18	0.00	2.02	0.09	0.00	2.11	0.00	65.0	0.0	0.	0.00
115	21.000	32.85	0.0	0.0	0.0	5.09	13.08	0.00	13.08	0.00	2.02	0.09	0.00	2.11	0.00	67.1	0.0	0.	0.00
116	20.900	32.84	0.0	0.0	0.0	5.12	12.98	0.00	12.98	0.00	2.02	0.09	0.00	2.11	0.00	69.1	0.0	0.	0.00

117	20.800	32.84	0.0	0.0	0.0	5.15	12.89	0.00	12.89	0.00	2.02	0.09	0.00	2.11	0.00	71.2	0.0	0.	0.00
118	20.700	32.84	0.0	0.0	0.0	5.18	12.79	0.00	12.79	0.00	2.02	0.09	0.00	2.11	0.00	73.2	0.0	0.	0.00
119	20.600	32.84	0.0	0.0	0.0	5.22	12.69	0.00	12.69	0.00	2.02	0.09	0.00	2.11	0.00	75.3	0.0	0.	0.00
120	20.500	32.83	0.0	0.0	0.0	5.27	12.60	0.00	12.60	0.00	2.02	0.09	0.00	2.11	0.00	77.4	0.0	0.	0.00
121	20.400	32.83	0.0	0.0	0.0	5.31	12.50	0.00	12.50	0.00	2.02	0.09	0.00	2.11	0.00	79.4	0.0	0.	0.00
122	20.300	32.83	0.0	0.0	0.0	5.37	12.41	0.00	12.41	0.00	2.02	0.09	0.00	2.12	0.00	81.5	0.0	0.	0.00
123	20.200	32.82	0.0	0.0	0.0	5.43	12.31	0.00	12.31	0.00	2.02	0.09	0.00	2.12	0.00	83.5	0.0	0.	0.00
124	20.100	32.82	0.0	0.0	0.0	5.49	12.22	0.00	12.22	0.00	2.02	0.09	0.00	2.12	0.00	85.6	0.0	0.	0.00
125	20.000	32.82	0.0	0.0	0.0	5.56	12.13	0.00	12.13	0.00	2.02	0.09	0.00	2.12	0.00	87.6	0.0	0.	0.00
126	19.900	32.81	0.0	0.0	0.0	5.63	12.04	0.00	12.04	0.00	2.02	0.09	0.00	2.12	0.00	89.7	0.0	0.	0.00
127	19.800	32.81	0.0	0.0	0.0	5.70	11.95	0.00	11.95	0.00	2.02	0.09	0.00	2.12	0.00	91.8	0.0	0.	0.00
128	19.700	32.81	0.0	0.0	0.0	5.79	11.86	0.00	11.86	0.00	2.03	0.09	0.00	2.12	0.00	93.8	0.0	0.	0.00
129	19.600	32.81	0.0	0.0	0.0	5.87	11.77	0.00	11.77	0.00	2.03	0.09	0.00	2.12	0.00	95.9	0.0	0.	0.00
130	19.500	32.80	0.0	0.0	0.0	5.96	11.69	0.00	11.69	0.00	2.03	0.09	0.00	2.12	0.00	97.9	0.0	0.	0.00
131	19.400	32.80	0.0	0.0	0.0	6.16	11.93	0.00	11.93	0.00	2.04	0.09	0.00	2.14	0.00	100.0	0.0	0.	0.00
132	19.300	32.80	0.0	0.0	0.0	6.99	14.29	0.00	14.29	0.00	2.16	0.10	0.00	2.26	0.00	100.1	0.0	0.	0.00
133	19.200	32.79	0.0	0.0	0.0	7.31	15.10	0.00	15.10	0.00	2.17	0.10	0.00	2.27	0.00	100.2	0.0	0.	0.00
134	19.100	32.79	0.0	0.0	0.0	7.59	15.88	0.00	15.88	0.00	2.18	0.10	0.00	2.28	0.00	100.3	0.0	0.	0.00
135	19.000	32.78	0.0	0.0	0.0	7.83	16.65	0.00	16.65	0.00	2.19	0.10	0.00	2.29	0.00	100.4	0.0	0.	0.00
136	18.900	32.78	0.0	0.0	0.0	8.04	17.39	0.00	17.39	0.00	2.20	0.10	0.00	2.30	0.00	100.5	0.0	0.	0.00
137	18.800	32.78	0.0	0.0	0.0	8.22	18.12	0.00	18.12	0.00	2.21	0.10	0.00	2.31	0.00	100.6	0.0	0.	0.00
138	18.700	32.77	0.0	0.0	0.0	8.37	18.82	0.00	18.82	0.00	2.22	0.10	0.00	2.32	0.00	100.7	0.0	0.	0.00
139	18.600	32.77	0.0	0.0	0.0	8.49	19.51	0.00	19.51	0.00	2.23	0.10	0.00	2.33	0.00	100.8	0.0	0.	0.00
140	18.500	32.76	0.0	0.0	0.0	8.59	20.18	0.00	20.18	0.00	2.24	0.10	0.00	2.34	0.00	100.9	0.0	0.	0.00
141	18.400	32.76	0.0	0.0	0.0	8.66	20.83	0.00	20.83	0.00	2.25	0.10	0.00	2.35	0.00	101.0	0.0	0.	0.00
142	18.300	32.76	0.0	0.0	0.0	8.72	21.46	0.00	21.46	0.00	2.26	0.10	0.00	2.36	0.00	101.1	0.0	0.	0.00
143	18.200	32.75	0.0	0.0	0.0	8.76	22.08	0.00	22.08	0.00	2.27	0.10	0.00	2.37	0.00	101.2	0.0	0.	0.00
144	18.100	32.75	0.0	0.0	0.0	8.78	22.67	0.00	22.67	0.00	2.28	0.10	0.00	2.38	0.00	101.3	0.0	0.	0.00
145	18.000	32.74	0.0	0.0	0.0	8.78	23.26	0.00	23.26	0.00	2.29	0.10	0.00	2.39	0.00	101.4	0.0	0.	0.00
146	17.900	32.74	0.0	0.0	0.0	8.78	23.82	0.00	23.82	0.00	2.30	0.10	0.00	2.40	0.00	101.5	0.0	0.	0.00
147	17.800	32.73	0.0	0.0	0.0	8.75	24.38	0.00	24.38	0.00	2.31	0.10	0.00	2.41	0.00	101.6	0.0	0.	0.00
148	17.700	32.73	0.0	0.0	0.0	8.72	24.91	0.00	24.91	0.00	2.32	0.10	0.00	2.42	0.00	101.7	0.0	0.	0.00
149	17.600	32.73	0.0	0.0	0.0	8.68	25.44	0.00	25.44	0.00	2.33	0.10	0.00	2.44	0.00	101.8	0.0	0.	0.00
150	17.500	32.72	0.0	0.0	0.0	8.62	25.95	0.00	25.95	0.00	2.34	0.10	0.00	2.45	0.00	101.9	0.0	0.	0.00
151	17.400	32.72	0.0	0.0	0.0	8.56	26.44	0.00	26.44	0.00	2.35	0.10	0.00	2.46	0.00	102.0	0.0	0.	0.00
152	17.300	32.71	0.0	0.0	0.0	8.49	26.92	0.00	26.92	0.00	2.36	0.10	0.00	2.47	0.00	102.1	0.0	0.	0.00
153	17.200	32.71	0.0	0.0	0.0	8.41	27.39	0.00	27.39	0.00	2.37	0.10	0.00	2.48	0.00	102.2	0.0	0.	0.00
154	17.100	32.71	0.0	0.0	0.0	8.33	27.85	0.00	27.85	0.00	2.38	0.10	0.00	2.49	0.00	102.3	0.0	0.	0.00
155	17.000	32.70	0.0	0.0	0.0	8.24	28.29	0.00	28.29	0.00	2.39	0.11	0.00	2.50	0.00	102.4	0.0	0.	0.00
156	16.900	32.70	0.0	0.0	0.0	8.15	28.73	0.00	28.73	0.00	2.40	0.11	0.00	2.51	0.00	102.6	0.0	0.	0.00
157	16.800	32.69	0.0	0.0	0.0	8.05	29.15	0.00	29.15	0.00	2.41	0.11	0.00	2.52	0.00	102.7	0.0	0.	0.00
158	16.700	32.69	0.0	0.0	0.0	7.95	29.56	0.00	29.56	0.00	2.42	0.11	0.00	2.53	0.00	102.8	0.0	0.	0.00
159	16.600	32.69	0.0	0.0	0.0	7.85	29.96	0.00	29.96	0.00	2.43	0.11	0.00	2.54	0.00	102.9	0.0	0.	0.00
160	16.500	32.68	0.0	0.0	0.0	7.74	30.34	0.00	30.34	0.00	2.44	0.11	0.00	2.55	0.00	103.0	0.0	0.	0.00
161	16.400	32.68	0.0	0.0	0.0	7.64	30.72	0.00	30.72	0.00	2.45	0.11	0.00	2.56	0.00	103.1	0.0	0.	0.00
162	16.300	32.67	0.0	0.0	0.0	7.53	31.09	0.00	31.09	0.00	2.46	0.11	0.00	2.57	0.00	103.2	0.0	0.	0.00
163	16.200	32.67	0.0	0.0	0.0	7.41	31.45	0.00	31.45	0.00	2.47	0.11	0.00	2.58	0.00	103.3	0.0	0.	0.00
164	16.100	32.67	0.0	0.0	0.0	7.30	31.80	0.00	31.80	0.00	2.48	0.11	0.00	2.59	0.00	103.4	0.0	0.	0.00
165	16.000	32.66	0.0	0.0	0.0	7.19	32.14	0.00	32.14	0.00	2.49	0.11	0.00	2.60	0.00	103.5	0.0	0.	0.00
166	15.900	32.66	0.0	0.0	0.0	7.07	32.47	0.00	32.47	0.00	2.50	0.11	0.00	2.61	0.00	103.6	0.0	0.	0.00

167	15.800	32.65	0.0	0.0	0.0	6.96	32.79	0.00	32.79	0.00	2.50	0.11	0.00	2.62	0.00	103.7	0.0	0.	0.00
168	15.700	32.65	0.0	0.0	0.0	6.85	33.11	0.00	33.11	0.00	2.51	0.11	0.00	2.62	0.00	103.8	0.0	0.	0.00
169	15.600	32.64	0.0	0.0	0.0	6.73	33.41	0.00	33.41	0.00	2.52	0.11	0.00	2.63	0.00	103.9	0.0	0.	0.00
170	15.500	32.64	0.0	0.0	0.0	6.62	33.71	0.00	33.71	0.00	2.53	0.11	0.00	2.64	0.00	104.0	0.0	0.	0.00
171	15.400	32.64	0.0	0.0	0.0	6.51	34.00	0.00	34.00	0.00	2.54	0.11	0.00	2.65	0.00	104.1	0.0	0.	0.00
172	15.300	32.63	0.0	0.0	0.0	6.39	34.28	0.00	34.28	0.00	2.55	0.11	0.00	2.66	0.00	104.2	0.0	0.	0.00
173	15.200	32.63	0.0	0.0	0.0	6.28	34.55	0.00	34.55	0.00	2.56	0.11	0.00	2.67	0.00	104.3	0.0	0.	0.00
174	15.100	32.62	0.0	0.0	0.0	6.17	34.82	0.00	34.82	0.00	2.57	0.11	0.00	2.68	0.00	104.4	0.0	0.	0.00
175	15.000	32.62	0.0	0.0	0.0	6.07	35.08	0.00	35.08	0.00	2.58	0.12	0.00	2.69	0.00	104.5	0.0	0.	0.00
176	14.900	32.62	0.0	0.0	0.0	5.96	35.33	0.00	35.33	0.00	2.59	0.12	0.00	2.70	0.00	104.6	0.0	0.	0.00
177	14.800	32.61	0.0	0.0	0.0	5.85	35.58	0.00	35.58	0.00	2.60	0.12	0.00	2.71	0.00	104.7	0.0	0.	0.00
178	14.700	32.61	0.0	0.0	0.0	5.75	35.81	0.00	35.81	0.00	2.61	0.12	0.00	2.72	0.00	104.8	0.0	0.	0.00
179	14.600	32.60	0.0	0.0	0.0	5.64	35.94	0.00	35.94	0.00	2.61	0.12	0.00	2.73	0.00	104.9	0.0	0.	0.00
180	14.500	32.60	0.0	0.0	0.0	5.48	35.45	0.00	35.45	0.00	2.61	0.12	0.00	2.73	0.00	105.0	0.0	0.	0.00
181	14.400	32.60	0.0	0.0	0.0	5.17	33.24	0.00	33.24	0.00	2.59	0.12	0.00	2.71	0.00	104.5	0.0	0.	0.00
182	14.300	32.60	0.0	0.0	0.0	5.05	31.47	0.00	31.47	0.00	2.57	0.12	0.00	2.69	0.00	104.1	0.0	0.	0.00
183	14.200	32.60	0.0	0.0	0.0	5.06	29.86	0.00	29.86	0.00	2.55	0.12	0.00	2.67	0.00	103.6	0.0	0.	0.00
184	14.100	32.60	0.0	0.0	0.0	5.17	28.37	0.00	28.37	0.00	2.53	0.12	0.00	2.65	0.00	103.1	0.0	0.	0.00
185	14.000	32.60	0.0	0.0	0.0	5.35	27.01	0.00	27.01	0.00	2.51	0.12	0.00	2.63	0.00	102.6	0.0	0.	0.00
186	13.900	32.59	0.0	0.0	0.0	5.59	25.77	0.00	25.77	0.00	2.49	0.12	0.00	2.62	0.00	102.2	0.0	0.	0.00
187	13.800	32.59	0.0	0.0	0.0	5.88	24.62	0.00	24.62	0.00	2.47	0.12	0.00	2.60	0.00	101.7	0.0	0.	0.00
188	13.700	32.59	0.0	0.0	0.0	6.20	23.58	0.00	23.58	0.00	2.45	0.12	0.00	2.58	0.00	101.2	0.0	0.	0.00
189	13.600	32.59	0.0	0.0	0.0	6.54	22.62	0.00	22.62	0.00	2.43	0.12	0.00	2.56	0.00	100.7	0.0	0.	0.00
190	13.500	32.59	0.0	0.0	0.0	6.89	21.74	0.00	21.74	0.00	2.41	0.12	0.00	2.54	0.00	100.3	0.0	0.	0.00
191	13.400	32.59	0.0	0.0	0.0	7.25	20.93	0.00	20.93	0.00	2.40	0.12	0.00	2.52	0.00	99.8	0.0	0.	0.00
192	13.300	32.59	0.0	0.0	0.0	7.61	20.19	0.00	20.19	0.00	2.38	0.12	0.00	2.50	0.00	99.3	0.0	0.	0.00
193	13.200	32.59	0.0	0.0	0.0	7.97	19.51	0.00	19.51	0.00	2.36	0.12	0.00	2.48	0.00	98.8	0.0	0.	0.00
194	13.100	32.59	0.0	0.0	0.0	8.32	18.89	0.00	18.89	0.00	2.34	0.12	0.00	2.46	0.00	98.4	0.0	0.	0.00
195	13.000	32.59	0.0	0.0	0.0	8.66	18.32	0.00	18.32	0.00	2.32	0.12	0.00	2.44	0.00	97.9	0.0	0.	0.00
196	12.900	32.59	0.0	0.0	0.0	8.99	17.80	0.00	17.80	0.00	2.30	0.12	0.00	2.42	0.00	97.4	0.0	0.	0.00
197	12.800	32.59	0.0	0.0	0.0	9.30	17.32	0.00	17.32	0.00	2.29	0.11	0.00	2.40	0.00	96.9	0.0	0.	0.00
198	12.700	32.58	0.0	0.0	0.0	9.60	16.88	0.00	16.88	0.00	2.27	0.11	0.00	2.38	0.00	96.5	0.0	0.	0.00
199	12.600	32.58	0.0	0.0	0.0	9.88	16.47	0.00	16.47	0.00	2.25	0.11	0.00	2.36	0.00	96.0	0.0	0.	0.00
200	12.500	32.58	0.0	0.0	0.0	10.14	16.11	0.00	16.11	0.00	2.23	0.11	0.00	2.35	0.00	95.5	0.0	0.	0.00
201	12.400	32.58	0.0	0.0	0.0	10.38	15.77	0.00	15.77	0.00	2.22	0.11	0.00	2.33	0.00	95.0	0.0	0.	0.00
202	12.300	32.58	0.0	0.0	0.0	10.61	15.46	0.00	15.46	0.00	2.20	0.11	0.00	2.31	0.00	94.6	0.0	0.	0.00
203	12.200	32.58	0.0	0.0	0.0	10.82	15.17	0.00	15.17	0.00	2.18	0.11	0.00	2.29	0.00	94.1	0.0	0.	0.00
204	12.100	32.58	0.0	0.0	0.0	11.02	14.91	0.00	14.91	0.00	2.17	0.11	0.00	2.27	0.00	93.6	0.0	0.	0.00
205	12.000	32.58	0.0	0.0	0.0	11.19	14.67	0.00	14.67	0.00	2.15	0.11	0.00	2.26	0.00	93.1	0.0	0.	0.00
206	11.900	32.58	0.0	0.0	0.0	11.35	14.45	0.00	14.45	0.00	2.13	0.11	0.00	2.24	0.00	92.7	0.0	0.	0.00
207	11.800	32.58	0.0	0.0	0.0	11.50	14.25	0.00	14.25	0.00	2.12	0.11	0.00	2.22	0.00	92.2	0.0	0.	0.00
208	11.700	32.58	0.0	0.0	0.0	11.63	14.07	0.00	14.07	0.00	2.10	0.10	0.00	2.20	0.00	91.7	0.0	0.	0.00
209	11.600	32.58	0.0	0.0	0.0	11.75	13.90	0.00	13.90	0.00	2.08	0.10	0.00	2.19	0.00	91.2	0.0	0.	0.00
210	11.500	32.57	0.0	0.0	0.0	11.85	13.75	0.00	13.75	0.00	2.07	0.10	0.00	2.17	0.00	90.8	0.0	0.	0.00
211	11.400	32.57	0.0	0.0	0.0	11.94	13.60	0.00	13.60	0.00	2.05	0.10	0.00	2.15	0.00	90.3	0.0	0.	0.00
212	11.300	32.57	0.0	0.0	0.0	12.02	13.47	0.00	13.47	0.00	2.04	0.10	0.00	2.14	0.00	89.8	0.0	0.	0.00
213	11.200	32.57	0.0	0.0	0.0	12.08	13.36	0.00	13.36	0.00	2.02	0.10	0.00	2.12	0.00	89.4	0.0	0.	0.00
214	11.100	32.57	0.0	0.0	0.0	12.14	13.25	0.00	13.25	0.00	2.01	0.10	0.00	2.11	0.00	88.9	0.0	0.	0.00
215	11.000	32.57	0.0	0.0	0.0	12.18	13.15	0.00	13.15	0.00	1.99	0.10	0.00	2.09	0.00	88.4	0.0	0.	0.00
216	10.900	32.57	0.0	0.0	0.0	12.22	13.05	0.00	13.05	0.00	1.98	0.10	0.00	2.07	0.00	87.9	0.0	0.	0.00

217	10.800	32.57	0.0	0.0	0.0	12.24	12.97	0.00	12.97	0.00	1.96	0.10	0.00	2.06	0.00	87.5	0.0	0.	0.00
218	10.700	32.57	0.0	0.0	0.0	12.26	12.89	0.00	12.89	0.00	1.95	0.10	0.00	2.04	0.00	87.0	0.0	0.	0.00
219	10.600	32.57	0.0	0.0	0.0	12.27	12.82	0.00	12.82	0.00	1.93	0.10	0.00	2.03	0.00	86.5	0.0	0.	0.00
220	10.500	32.57	0.0	0.0	0.0	12.27	12.76	0.00	12.76	0.00	1.92	0.10	0.00	2.01	0.00	86.0	0.0	0.	0.00
221	10.400	32.56	0.0	0.0	0.0	12.27	12.70	0.00	12.70	0.00	1.90	0.09	0.00	2.00	0.00	85.6	0.0	0.	0.00
222	10.300	32.56	0.0	0.0	0.0	12.26	12.65	0.00	12.65	0.00	1.89	0.09	0.00	1.98	0.00	85.1	0.0	0.	0.00
223	10.200	32.56	0.0	0.0	0.0	12.24	12.60	0.00	12.60	0.00	1.87	0.09	0.00	1.97	0.00	84.6	0.0	0.	0.00
224	10.100	32.56	0.0	0.0	0.0	12.22	12.55	0.00	12.55	0.00	1.86	0.09	0.00	1.95	0.00	84.1	0.0	0.	0.00
225	10.000	32.56	0.0	0.0	0.0	12.19	12.51	0.00	12.51	0.00	1.84	0.09	0.00	1.94	0.00	83.7	0.0	0.	0.00
226	9.900	32.56	0.0	0.0	0.0	12.16	12.47	0.00	12.47	0.00	1.83	0.09	0.00	1.92	0.00	83.2	0.0	0.	0.00
227	9.800	32.56	0.0	0.0	0.0	12.12	12.43	0.00	12.43	0.00	1.82	0.09	0.00	1.91	0.00	82.7	0.0	0.	0.00
228	9.700	32.56	0.0	0.0	0.0	12.08	12.40	0.00	12.40	0.00	1.80	0.09	0.00	1.89	0.00	82.2	0.0	0.	0.00
229	9.600	32.56	0.0	0.0	0.0	12.04	12.37	0.00	12.37	0.00	1.79	0.09	0.00	1.88	0.00	81.8	0.0	0.	0.00
230	9.500	32.56	0.0	0.0	0.0	11.99	12.35	0.00	12.35	0.00	1.78	0.09	0.00	1.86	0.00	81.3	0.0	0.	0.00
231	9.400	32.56	0.0	0.0	0.0	11.93	12.32	0.00	12.32	0.00	1.76	0.09	0.00	1.85	0.00	80.8	0.0	0.	0.00
232	9.300	32.56	0.0	0.0	0.0	11.88	12.30	0.00	12.30	0.00	1.75	0.09	0.00	1.84	0.00	80.3	0.0	0.	0.00
233	9.200	32.55	0.0	0.0	0.0	11.82	12.28	0.00	12.28	0.00	1.74	0.09	0.00	1.82	0.00	79.9	0.0	0.	0.00
234	9.100	32.55	0.0	0.0	0.0	11.76	12.26	0.00	12.26	0.00	1.72	0.09	0.00	1.81	0.00	79.4	0.0	0.	0.00
235	9.000	32.55	0.0	0.0	0.0	11.70	12.24	0.00	12.24	0.00	1.71	0.08	0.00	1.80	0.00	78.9	0.0	0.	0.00
236	8.900	32.55	0.0	0.0	0.0	11.63	12.23	0.00	12.23	0.00	1.70	0.08	0.00	1.78	0.00	78.4	0.0	0.	0.00
237	8.800	32.55	0.0	0.0	0.0	11.56	12.21	0.00	12.21	0.00	1.68	0.08	0.00	1.77	0.00	78.0	0.0	0.	0.00
238	8.700	32.55	0.0	0.0	0.0	11.49	12.20	0.00	12.20	0.00	1.67	0.08	0.00	1.76	0.00	77.5	0.0	0.	0.00
239	8.600	32.55	0.0	0.0	0.0	11.42	12.19	0.00	12.19	0.00	1.66	0.08	0.00	1.74	0.00	77.0	0.0	0.	0.00
240	8.500	32.55	0.0	0.0	0.0	11.35	12.18	0.00	12.18	0.00	1.65	0.08	0.00	1.73	0.00	76.6	0.0	0.	0.00
241	8.400	32.55	0.0	0.0	0.0	11.27	12.17	0.00	12.17	0.00	1.64	0.08	0.00	1.72	0.00	76.1	0.0	0.	0.00
242	8.300	32.55	0.0	0.0	0.0	11.20	12.16	0.00	12.16	0.00	1.62	0.08	0.00	1.70	0.00	75.6	0.0	0.	0.00
243	8.200	32.55	0.0	0.0	0.0	11.12	12.15	0.00	12.15	0.00	1.61	0.08	0.00	1.69	0.00	75.1	0.0	0.	0.00
244	8.100	32.54	0.0	0.0	0.0	11.04	12.14	0.00	12.14	0.00	1.60	0.08	0.00	1.68	0.00	74.7	0.0	0.	0.00
245	8.000	32.54	0.0	0.0	0.0	10.96	12.13	0.00	12.13	0.00	1.59	0.08	0.00	1.67	0.00	74.2	0.0	0.	0.00
246	7.900	32.54	0.0	0.0	0.0	10.88	12.13	0.00	12.13	0.00	1.58	0.08	0.00	1.65	0.00	73.7	0.0	0.	0.00
247	7.800	32.54	0.0	0.0	0.0	10.80	12.12	0.00	12.12	0.00	1.56	0.08	0.00	1.64	0.00	73.2	0.0	0.	0.00
248	7.700	32.54	0.0	0.0	0.0	10.72	12.12	0.00	12.12	0.00	1.55	0.08	0.00	1.63	0.00	72.8	0.0	0.	0.00
249	7.600	32.54	0.0	0.0	0.0	10.63	12.11	0.00	12.11	0.00	1.54	0.08	0.00	1.62	0.00	72.3	0.0	0.	0.00
250	7.500	32.54	0.0	0.0	0.0	10.55	12.11	0.00	12.11	0.00	1.53	0.08	0.00	1.61	0.00	71.8	0.0	0.	0.00
251	7.400	32.54	0.0	0.0	0.0	10.46	12.10	0.00	12.10	0.00	1.52	0.08	0.00	1.59	0.00	71.3	0.0	0.	0.00
252	7.300	32.54	0.0	0.0	0.0	10.38	12.10	0.00	12.10	0.00	1.51	0.07	0.00	1.58	0.00	70.9	0.0	0.	0.00
253	7.200	32.54	0.0	0.0	0.0	10.29	12.10	0.00	12.10	0.00	1.50	0.07	0.00	1.57	0.00	70.4	0.0	0.	0.00
254	7.100	32.54	0.0	0.0	0.0	10.21	12.09	0.00	12.09	0.00	1.48	0.07	0.00	1.56	0.00	69.9	0.0	0.	0.00
255	7.000	32.54	0.0	0.0	0.0	10.12	12.09	0.00	12.09	0.00	1.47	0.07	0.00	1.55	0.00	69.4	0.0	0.	0.00
256	6.900	32.53	0.0	0.0	0.0	10.03	12.09	0.00	12.09	0.00	1.46	0.07	0.00	1.54	0.00	69.0	0.0	0.	0.00
257	6.800	32.53	0.0	0.0	0.0	9.94	12.09	0.00	12.09	0.00	1.45	0.07	0.00	1.52	0.00	68.5	0.0	0.	0.00
258	6.700	32.53	0.0	0.0	0.0	9.85	12.08	0.00	12.08	0.00	1.44	0.07	0.00	1.51	0.00	68.0	0.0	0.	0.00
259	6.600	32.53	0.0	0.0	0.0	9.77	12.08	0.00	12.08	0.00	1.43	0.07	0.00	1.50	0.00	67.5	0.0	0.	0.00
260	6.500	32.53	0.0	0.0	0.0	9.68	12.08	0.00	12.08	0.00	1.42	0.07	0.00	1.49	0.00	67.1	0.0	0.	0.00
261	6.400	32.53	0.0	0.0	0.0	9.59	12.08	0.00	12.08	0.00	1.41	0.07	0.00	1.48	0.00	66.6	0.0	0.	0.00
262	6.300	32.53	0.0	0.0	0.0	9.50	12.08	0.00	12.08	0.00	1.40	0.07	0.00	1.47	0.00	66.1	0.0	0.	0.00
263	6.200	32.53	0.0	0.0	0.0	9.41	12.08	0.00	12.08	0.00	1.39	0.07	0.00	1.46	0.00	65.6	0.0	0.	0.00
264	6.100	32.53	0.0	0.0	0.0	9.31	12.08	0.00	12.08	0.00	1.38	0.07	0.00	1.45	0.00	65.2	0.0	0.	0.00
265	6.000	32.53	0.0	0.0	0.0	9.22	12.08	0.00	12.08	0.00	1.37	0.07	0.00	1.44	0.00	64.7	0.0	0.	0.00
266	5.900	32.53	0.0	0.0	0.0	9.13	12.08	0.00	12.08	0.00	1.36	0.07	0.00	1.43	0.00	64.2	0.0	0.	0.00

267	5.800	32.53	0.0	0.0	0.0	9.04	12.08	0.00	12.08	0.00	1.35	0.07	0.00	1.42	0.00	63.8	0.0	0.	0.00
268	5.700	32.52	0.0	0.0	0.0	8.95	12.08	0.00	12.08	0.00	1.34	0.07	0.00	1.41	0.00	63.3	0.0	0.	0.00
269	5.600	32.52	0.0	0.0	0.0	8.86	12.08	0.00	12.08	0.00	1.33	0.07	0.00	1.40	0.00	62.8	0.0	0.	0.00
270	5.500	32.52	0.0	0.0	0.0	8.77	12.08	0.00	12.08	0.00	1.32	0.07	0.00	1.39	0.00	62.3	0.0	0.	0.00
271	5.400	32.52	0.0	0.0	0.0	8.68	12.08	0.00	12.08	0.00	1.31	0.07	0.00	1.38	0.00	61.9	0.0	0.	0.00
272	5.300	32.52	0.0	0.0	0.0	8.58	12.07	0.00	12.07	0.00	1.30	0.07	0.00	1.37	0.00	61.4	0.0	0.	0.00
273	5.200	32.52	0.0	0.0	0.0	8.49	12.07	0.00	12.07	0.00	1.29	0.06	0.00	1.36	0.00	60.9	0.0	0.	0.00
274	5.100	32.52	0.0	0.0	0.0	8.40	12.07	0.00	12.07	0.00	1.28	0.06	0.00	1.35	0.00	60.4	0.0	0.	0.00
275	5.000	32.52	0.0	0.0	0.0	8.31	12.07	0.00	12.07	0.00	1.27	0.06	0.00	1.34	0.00	60.0	0.0	0.	0.00
276	4.900	32.52	0.0	0.0	0.0	8.22	12.07	0.00	12.07	0.00	1.27	0.06	0.00	1.33	0.00	59.5	0.0	0.	0.00
277	4.800	32.52	0.0	0.0	0.0	8.13	12.07	0.00	12.07	0.00	1.26	0.06	0.00	1.32	0.00	59.0	0.0	0.	0.00
278	4.700	32.52	0.0	0.0	0.0	8.03	12.07	0.00	12.07	0.00	1.25	0.06	0.00	1.31	0.00	58.5	0.0	0.	0.00
279	4.600	32.51	0.0	0.0	0.0	7.94	12.07	0.00	12.07	0.00	1.24	0.06	0.00	1.30	0.00	58.1	0.0	0.	0.00
280	4.500	32.51	0.0	0.0	0.0	7.85	12.07	0.00	12.07	0.00	1.23	0.06	0.00	1.29	0.00	57.6	0.0	0.	0.00
281	4.400	32.51	0.0	0.0	0.0	7.76	12.07	0.00	12.07	0.00	1.22	0.06	0.00	1.28	0.00	57.1	0.0	0.	0.00
282	4.300	32.51	0.0	0.0	0.0	7.67	12.07	0.00	12.07	0.00	1.21	0.06	0.00	1.27	0.00	56.6	0.0	0.	0.00
283	4.200	32.51	0.0	0.0	0.0	7.57	12.07	0.00	12.07	0.00	1.20	0.06	0.00	1.26	0.00	56.2	0.0	0.	0.00
284	4.100	32.51	0.0	0.0	0.0	7.48	12.07	0.00	12.07	0.00	1.20	0.06	0.00	1.25	0.00	55.7	0.0	0.	0.00
285	4.000	32.51	0.0	0.0	0.0	7.39	12.07	0.00	12.07	0.00	1.19	0.06	0.00	1.25	0.00	55.2	0.0	0.	0.00
286	3.900	32.51	0.0	0.0	0.0	7.30	12.07	0.00	12.07	0.00	1.18	0.06	0.00	1.24	0.00	54.7	0.0	0.	0.00
287	3.800	32.51	0.0	0.0	0.0	7.20	12.07	0.00	12.07	0.00	1.17	0.06	0.00	1.23	0.00	54.3	0.0	0.	0.00
288	3.700	32.51	0.0	0.0	0.0	7.11	12.07	0.00	12.07	0.00	1.16	0.06	0.00	1.22	0.00	53.8	0.0	0.	0.00
289	3.600	32.51	0.0	0.0	0.0	7.02	12.07	0.00	12.07	0.00	1.15	0.06	0.00	1.21	0.00	53.3	0.0	0.	0.00
290	3.500	32.51	0.0	0.0	0.0	6.93	12.08	0.00	12.08	0.00	1.15	0.06	0.00	1.20	0.00	52.8	0.0	0.	0.00
291	3.400	32.50	0.0	0.0	0.0	6.83	12.08	0.00	12.08	0.00	1.14	0.06	0.00	1.19	0.00	52.4	0.0	0.	0.00
292	3.300	32.50	0.0	0.0	0.0	6.74	12.08	0.00	12.08	0.00	1.13	0.06	0.00	1.19	0.00	51.9	0.0	0.	0.00
293	3.200	32.50	0.0	0.0	0.0	6.65	12.07	0.00	12.07	0.00	1.12	0.06	0.00	1.18	0.00	51.4	0.0	0.	0.00
294	3.100	32.50	0.0	0.0	0.0	6.56	12.07	0.00	12.07	0.00	1.11	0.06	0.00	1.17	0.00	50.9	0.0	0.	0.00
295	3.000	32.50	0.0	0.0	0.0	6.48	12.06	0.00	12.06	0.00	1.11	0.06	0.00	1.16	0.00	50.5	0.0	0.	0.00
296	2.900	32.50	0.0	0.0	0.0	6.42	12.02	0.00	12.02	0.00	1.10	0.06	0.00	1.16	0.00	50.0	0.0	0.	0.00
297	2.800	32.44	0.0	0.0	0.0	6.41	11.83	0.00	11.83	0.00	1.10	0.06	0.00	1.16	0.00	48.3	0.0	0.	0.00
298	2.700	32.38	0.0	0.0	0.0	6.41	11.60	0.00	11.60	0.00	1.10	0.06	0.00	1.16	0.00	46.7	0.0	0.	0.00
299	2.600	32.32	0.0	0.0	0.0	6.40	11.37	0.00	11.37	0.00	1.10	0.06	0.00	1.15	0.00	45.0	0.0	0.	0.00
300	2.500	32.27	0.0	0.0	0.0	6.38	11.15	0.00	11.15	0.00	1.10	0.06	0.00	1.15	0.00	43.4	0.0	0.	0.00
301	2.400	32.21	0.0	0.0	0.0	6.36	10.93	0.00	10.93	0.00	1.09	0.06	0.00	1.15	0.00	41.7	0.0	0.	0.00
302	2.300	32.15	0.0	0.0	0.0	6.34	10.71	0.00	10.71	0.00	1.09	0.06	0.00	1.15	0.00	40.1	0.0	0.	0.00
303	2.200	32.09	0.0	0.0	0.0	6.32	10.51	0.00	10.51	0.00	1.09	0.06	0.00	1.15	0.00	38.4	0.0	0.	0.00
304	2.100	32.03	0.0	0.0	0.0	6.29	10.30	0.00	10.30	0.00	1.09	0.06	0.00	1.15	0.00	36.8	0.0	0.	0.00
305	2.000	31.97	0.0	0.0	0.0	6.26	10.10	0.00	10.10	0.00	1.09	0.06	0.00	1.14	0.00	35.1	0.0	0.	0.00
306	1.900	31.91	0.0	0.0	0.0	6.23	9.91	0.00	9.91	0.00	1.09	0.06	0.00	1.14	0.00	33.4	0.0	0.	0.00
307	1.800	31.86	0.0	0.0	0.0	6.20	9.71	0.00	9.71	0.00	1.09	0.06	0.00	1.14	0.00	31.8	0.0	0.	0.00
308	1.700	31.80	0.0	0.0	0.0	6.16	9.53	0.00	9.53	0.00	1.08	0.06	0.00	1.14	0.00	30.1	0.0	0.	0.00
309	1.600	31.74	0.0	0.0	0.0	6.12	9.34	0.00	9.34	0.00	1.08	0.06	0.00	1.14	0.00	28.5	0.0	0.	0.00
310	1.500	31.68	0.0	0.0	0.0	6.07	9.17	0.00	9.17	0.00	1.08	0.06	0.00	1.14	0.00	26.8	0.0	0.	0.00
311	1.400	31.62	0.0	0.0	0.0	6.02	8.99	0.00	8.99	0.00	1.08	0.06	0.00	1.13	0.00	25.2	0.0	0.	0.00
312	1.300	31.56	0.0	0.0	0.0	5.97	8.82	0.00	8.82	0.00	1.08	0.06	0.00	1.13	0.00	23.5	0.0	0.	0.00
313	1.200	31.50	0.0	0.0	0.0	5.92	8.65	0.00	8.65	0.00	1.08	0.06	0.00	1.13	0.00	21.9	0.0	0.	0.00
314	1.100	31.44	0.0	0.0	0.0	5.86	8.49	0.00	8.49	0.00	1.07	0.06	0.00	1.13	0.00	20.2	0.0	0.	0.00
315	1.000	31.39	0.0	0.0	0.0	5.80	8.33	0.00	8.33	0.00	1.07	0.06	0.00	1.13	0.00	18.6	0.0	0.	0.00
316	0.900	31.33	0.0	0.0	0.0	5.74	8.17	0.00	8.17	0.00	1.07	0.06	0.00	1.13	0.00	16.9	0.0	0.	0.00

317	0.800	31.27	0.0	0.0	0.0	5.68	8.02	0.00	8.02	0.00	1.07	0.06	0.00	1.13	0.00	15.2	0.0	0.	0.00	
318	0.700	31.21	0.0	0.0	0.0	5.61	7.87	0.00	7.87	0.00	1.07	0.06	0.00	1.12	0.00	13.6	0.0	0.	0.00	
319	0.600	31.15	0.0	0.0	0.0	5.54	7.72	0.00	7.72	0.00	1.07	0.06	0.00	1.12	0.00	11.9	0.0	0.	0.00	
320	0.500	31.09	0.0	0.0	0.0	5.47	7.58	0.00	7.58	0.00	1.07	0.06	0.00	1.12	0.00	10.3	0.0	0.	0.00	
321	0.400	31.03	0.0	0.0	0.0	5.39	7.43	0.00	7.43	0.00	1.06	0.06	0.00	1.12	0.00	8.6	0.0	0.	0.00	
322	0.300	30.98	0.0	0.0	0.0	5.31	7.30	0.00	7.30	0.00	1.06	0.06	0.00	1.12	0.00	7.0	0.0	0.	0.00	
323	0.200	30.92	0.0	0.0	0.0	5.23	7.16	0.00	7.16	0.00	1.06	0.06	0.00	1.12	0.00	5.3	0.0	0.	0.00	
324	0.100	30.86	0.0	0.0	0.0	5.15	7.01	0.00	7.01	0.00	1.05	0.06	0.00	1.11	0.00	3.7	0.0	0.	0.00	
325	0.000	30.80	0.0	0.0	0.0	5.02	6.54	0.00	6.54	0.00	0.96	0.06	0.00	1.02	0.00	2.0	0.0	0.	0.00	

SPECIAL REPORT: Fourmile Bayou Oxbow
WATER QUALITY CONSTITUENT VALUES

ELEM	ENDING	TEMP	SALN	CM-I	CM-II	DO	BOD1	BOD2	EBOD#1	EBOD#2	ORG-N	NH3-N	NO3-N	TOTN	PHOS	CHL A	MACRO	COLI	NCM
NO.	km	deg C	ppt	*	*	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	**		#/100mL	*
56	4.100	33.88	0.0	0.0	0.0	6.62	24.55	0.00	24.55	0.00	1.71	0.10	0.01	1.81	0.00	93.5	0.0	0.	0.00	
57	4.000	33.85	0.0	0.0	0.0	6.50	23.84	0.00	23.84	0.00	1.71	0.10	0.00	1.81	0.00	91.9	0.0	0.	0.00	
58	3.900	33.83	0.0	0.0	0.0	6.39	23.15	0.00	23.15	0.00	1.72	0.10	0.00	1.81	0.00	90.4	0.0	0.	0.00	
59	3.800	33.80	0.0	0.0	0.0	6.29	22.49	0.00	22.49	0.00	1.72	0.10	0.00	1.82	0.00	88.8	0.0	0.	0.00	
60	3.700	33.78	0.0	0.0	0.0	6.21	21.84	0.00	21.84	0.00	1.73	0.10	0.00	1.82	0.00	87.3	0.0	0.	0.00	
61	3.600	33.76	0.0	0.0	0.0	6.14	21.23	0.00	21.23	0.00	1.73	0.09	0.00	1.83	0.00	85.7	0.0	0.	0.00	
62	3.500	33.73	0.0	0.0	0.0	6.08	20.63	0.00	20.63	0.00	1.74	0.09	0.00	1.83	0.00	84.2	0.0	0.	0.00	
63	3.400	33.71	0.0	0.0	0.0	6.02	20.05	0.00	20.05	0.00	1.75	0.09	0.00	1.84	0.00	82.6	0.0	0.	0.00	
64	3.300	33.69	0.0	0.0	0.0	5.98	19.49	0.00	19.49	0.00	1.75	0.09	0.00	1.84	0.00	81.1	0.0	0.	0.00	
65	3.200	33.66	0.0	0.0	0.0	5.94	18.95	0.00	18.95	0.00	1.76	0.09	0.00	1.85	0.00	79.5	0.0	0.	0.00	
66	3.100	33.64	0.0	0.0	0.0	5.90	18.43	0.00	18.43	0.00	1.76	0.09	0.00	1.85	0.00	78.0	0.0	0.	0.00	
67	3.000	33.61	0.0	0.0	0.0	5.88	17.92	0.00	17.92	0.00	1.77	0.09	0.00	1.86	0.00	76.4	0.0	0.	0.00	
68	2.900	33.59	0.0	0.0	0.0	5.85	17.43	0.00	17.43	0.00	1.77	0.09	0.00	1.86	0.00	74.9	0.0	0.	0.00	
69	2.800	33.57	0.0	0.0	0.0	5.84	16.96	0.00	16.96	0.00	1.78	0.09	0.00	1.87	0.00	73.3	0.0	0.	0.00	
70	2.700	33.54	0.0	0.0	0.0	5.82	16.51	0.00	16.51	0.00	1.78	0.09	0.00	1.87	0.00	71.8	0.0	0.	0.00	
71	2.600	33.52	0.0	0.0	0.0	5.81	16.07	0.00	16.07	0.00	1.79	0.09	0.00	1.88	0.00	70.2	0.0	0.	0.00	
72	2.500	33.50	0.0	0.0	0.0	5.80	15.64	0.00	15.64	0.00	1.79	0.09	0.00	1.88	0.00	68.7	0.0	0.	0.00	
73	2.400	33.47	0.0	0.0	0.0	5.79	15.23	0.00	15.23	0.00	1.80	0.09	0.00	1.89	0.00	67.1	0.0	0.	0.00	
74	2.300	33.45	0.0	0.0	0.0	5.79	14.83	0.00	14.83	0.00	1.81	0.09	0.00	1.89	0.00	65.6	0.0	0.	0.00	
75	2.200	33.42	0.0	0.0	0.0	5.78	14.45	0.00	14.45	0.00	1.81	0.09	0.00	1.90	0.00	64.0	0.0	0.	0.00	
76	2.100	33.40	0.0	0.0	0.0	5.77	14.08	0.00	14.08	0.00	1.82	0.09	0.00	1.90	0.00	62.5	0.0	0.	0.00	
77	2.000	33.38	0.0	0.0	0.0	5.77	13.72	0.00	13.72	0.00	1.82	0.09	0.00	1.91	0.00	61.0	0.0	0.	0.00	
78	1.900	33.35	0.0	0.0	0.0	5.76	13.37	0.00	13.37	0.00	1.83	0.09	0.00	1.92	0.00	59.4	0.0	0.	0.00	
79	1.800	33.33	0.0	0.0	0.0	5.76	13.03	0.00	13.03	0.00	1.83	0.09	0.00	1.92	0.00	57.9	0.0	0.	0.00	
80	1.700	33.30	0.0	0.0	0.0	5.75	12.71	0.00	12.71	0.00	1.84	0.09	0.00	1.93	0.00	56.3	0.0	0.	0.00	
81	1.600	33.28	0.0	0.0	0.0	5.74	12.39	0.00	12.39	0.00	1.84	0.09	0.00	1.93	0.00	54.8	0.0	0.	0.00	
82	1.500	33.26	0.0	0.0	0.0	5.73	12.09	0.00	12.09	0.00	1.85	0.09	0.00	1.94	0.00	53.2	0.0	0.	0.00	
83	1.400	33.23	0.0	0.0	0.0	5.71	11.80	0.00	11.80	0.00	1.85	0.09	0.00	1.94	0.00	51.7	0.0	0.	0.00	
84	1.300	33.21	0.0	0.0	0.0	5.70	11.51	0.00	11.51	0.00	1.86	0.09	0.00	1.95	0.00	50.1	0.0	0.	0.00	
85	1.200	33.19	0.0	0.0	0.0	5.68	11.24	0.00	11.24	0.00	1.86	0.09	0.00	1.95	0.00	48.6	0.0	0.	0.00	
86	1.100	33.16	0.0	0.0	0.0	5.66	10.97	0.00	10.97	0.00	1.87	0.09	0.00	1.96	0.00	47.0	0.0	0.	0.00	
87	1.000	33.14	0.0	0.0	0.0	5.64	10.72	0.00	10.72	0.00	1.87	0.09	0.00	1.96	0.00	45.5	0.0	0.	0.00	
88	0.900	33.11	0.0	0.0	0.0	5.61	10.47	0.00	10.47	0.00	1.88	0.09	0.00	1.97	0.00	43.9	0.0	0.	0.00	
89	0.800	33.09	0.0	0.0	0.0	5.58	10.23	0.00	10.23	0.00	1.88	0.09	0.00	1.97	0.00	42.4	0.0	0.	0.00	
90	0.700	33.07	0.0	0.0	0.0	5.55	10.00	0.00	10.00	0.00	1.89	0.09	0.00	1.98	0.00	40.8	0.0	0.	0.00	
91	0.600	33.04	0.0	0.0	0.0	5.51	9.77	0.00	9.77	0.00	1.89	0.09	0.00	1.98	0.00	39.3	0.0	0.	0.00	
92	0.500	33.02	0.0	0.0	0.0	5.47	9.56	0.00	9.56	0.00	1.90	0.09	0.00	1.99	0.00	37.7	0.0	0.	0.00	

93	0.400	33.00	0.0	0.0	0.0	5.43	9.35	0.00	9.35	0.00	1.90	0.09	0.00	1.99	0.00	36.2	0.0	0.	0.00				
94	0.300	32.97	0.0	0.0	0.0	5.38	9.16	0.00	9.16	0.00	1.91	0.09	0.00	2.00	0.00	34.6	0.0	0.	0.00				
95	0.200	32.95	0.0	0.0	0.0	5.32	9.04	0.00	9.04	0.00	1.92	0.09	0.00	2.01	0.00	33.1	0.0	0.	0.00				
96	0.100	32.92	0.0	0.0	0.0	5.26	9.20	0.00	9.20	0.00	1.93	0.09	0.00	2.02	0.00	31.5	0.0	0.	0.00				
97	0.000	32.90	0.0	0.0	0.0	5.23	10.57	0.00	10.57	0.00	1.95	0.09	0.00	2.04	0.00	30.0	0.0	0.	0.00				

SPECIAL REPORT: Grassy Lake

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#1 SETT	BOD#2 DECAY	ABOD#2 SOD	FULL SOD	CORR DECAY	ORG-N SETT	ORG-N DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	km	mg/L	1/da	1/da	1/da	1/da	1/da	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da			
1	28.200	7.17	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.55	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00	
2	28.100	7.17	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.55	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00	
3	28.000	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.55	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00	
4	27.900	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00	
5	27.800	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00	
6	27.700	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00	
7	27.600	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00	
8	27.500	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00	
9	27.400	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00	
10	27.300	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00	
11	27.200	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00	
12	27.100	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.56	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00	
13	27.000	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00	
14	26.900	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00	
15	26.800	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00	
16	26.700	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00	
17	26.600	7.12	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00	
18	26.500	7.12	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00	
19	26.400	7.12	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00	
20	26.300	7.12	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00	
21	26.200	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00	
22	26.100	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00	
23	26.000	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00	
24	25.900	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00	
25	25.800	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00	
26	25.700	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00	
27	25.600	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00	
28	25.500	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00	
29	25.400	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00	
30	25.300	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.59	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00	
31	25.200	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.59	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00	
32	25.100	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.59	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00	
33	25.000	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.59	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	
34	24.900	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.68	1.68	0.03	0.00	0.59	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	
35	24.800	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.68	1.68	0.03	0.00	0.59	0.00	0.00	0.00	8.99	0.00	0.00	0.00	0.00	
36	24.700	7.08	0.17	0.40	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.59	0.00	0.00	0.00	8.67	0.00	0.00	0.00	0.00	
37	24.600	7.09	0.17	0.40	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.59	0.00	0.00	0.00	8.34	0.00	0.00	0.00	0.00	
38	24.500	7.09	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	8.02	0.00	0.00	0.00	0.00	
39	24.400	7.10	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	7.69	0.00	0.00	0.00	0.00	
40	24.300	7.11	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	7.37	0.00	0.00	0.00	0.00	

41	24.200	7.11	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.57	0.00	0.00	0.00	7.05	0.00	0.00	0.00	0.00
42	24.100	7.12	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
43	24.000	7.12	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00
44	23.900	7.13	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	6.10	0.00	0.00	0.00	0.00
45	23.800	7.14	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.56	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00
46	23.700	7.14	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	5.47	0.00	0.00	0.00	0.00
47	23.600	7.15	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
48	23.500	7.15	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.55	0.00	0.00	0.00	4.85	0.00	0.00	0.00	0.00
49	23.400	7.16	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.55	0.00	0.00	0.00	4.54	0.00	0.00	0.00	0.00
50	23.300	7.16	0.17	0.38	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.54	0.00	0.00	0.00	4.23	0.00	0.00	0.00	0.00
51	23.200	7.17	0.17	0.38	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.54	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00
52	23.100	7.18	0.17	0.38	0.00	0.00	0.00	0.00	0.00	1.59	1.59	0.03	0.00	0.54	0.00	0.00	0.00	3.62	0.00	0.00	0.00	0.00
53	23.000	7.18	0.17	0.38	0.00	0.00	0.00	0.00	0.00	1.59	1.59	0.03	0.00	0.53	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00
54	22.900	7.19	0.17	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.03	0.00	0.53	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00
55	22.800	7.20	0.17	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00
98	22.700	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
99	22.600	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
100	22.500	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
101	22.400	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00
102	22.300	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	3.64	0.00	0.00	0.00	0.00
103	22.200	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.03	0.00	0.51	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00
104	22.100	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.03	0.00	0.51	0.00	0.00	0.00	4.01	0.00	0.00	0.00	0.00
105	22.000	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00
106	21.900	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	4.38	0.00	0.00	0.00	0.00
107	21.800	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00
108	21.700	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	4.75	0.00	0.00	0.00	0.00
109	21.600	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00
110	21.500	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
111	21.400	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	5.31	0.00	0.00	0.00	0.00
112	21.300	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.00
113	21.200	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	5.68	0.00	0.00	0.00	0.00
114	21.100	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	5.86	0.00	0.00	0.00	0.00
115	21.000	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
116	20.900	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00
117	20.800	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	6.42	0.00	0.00	0.00	0.00
118	20.700	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
119	20.600	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
120	20.500	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	6.97	0.00	0.00	0.00	0.00
121	20.400	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	7.16	0.00	0.00	0.00	0.00
122	20.300	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	7.34	0.00	0.00	0.00	0.00
123	20.200	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	7.53	0.00	0.00	0.00	0.00
124	20.100	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	7.71	0.00	0.00	0.00	0.00
125	20.000	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	7.90	0.00	0.00	0.00	0.00
126	19.900	7.21	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	8.08	0.00	0.00	0.00	0.00
127	19.800	7.21	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.00
128	19.700	7.21	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	8.45	0.00	0.00	0.00	0.00
129	19.600	7.21	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.53	0.00	0.00	0.00	8.63	0.00	0.00	0.00	0.00
130	19.500	7.21	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.53	0.00	0.00	0.00	8.82	0.00	0.00	0.00	0.00
131	19.400	7.21	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	0.03	0.00	0.53	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
132	19.300	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.54	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00

133	19.200	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
134	19.100	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
135	19.000	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
136	18.900	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
137	18.800	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
138	18.700	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
139	18.600	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
140	18.500	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
141	18.400	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
142	18.300	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
143	18.200	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
144	18.100	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
145	18.000	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
146	17.900	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
147	17.800	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00
148	17.700	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.13	0.00	0.00	0.00	0.00
149	17.600	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.14	0.00	0.00	0.00	0.00
150	17.500	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.14	0.00	0.00	0.00	0.00
151	17.400	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.15	0.00	0.00	0.00	0.00
152	17.300	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.16	0.00	0.00	0.00	0.00
153	17.200	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.17	0.00	0.00	0.00	0.00
154	17.100	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.17	0.00	0.00	0.00	0.00
155	17.000	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.18	0.00	0.00	0.00	0.00
156	16.900	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.55	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
157	16.800	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.55	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
158	16.700	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.55	0.00	0.00	0.00	9.20	0.00	0.00	0.00	0.00
159	16.600	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.55	0.00	0.00	0.00	9.21	0.00	0.00	0.00	0.00
160	16.500	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.55	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00
161	16.400	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00
162	16.300	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.23	0.00	0.00	0.00	0.00
163	16.200	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.24	0.00	0.00	0.00	0.00
164	16.100	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.25	0.00	0.00	0.00	0.00
165	16.000	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.25	0.00	0.00	0.00	0.00
166	15.900	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.26	0.00	0.00	0.00	0.00
167	15.800	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.27	0.00	0.00	0.00	0.00
168	15.700	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.53	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
169	15.600	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.53	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
170	15.500	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.53	0.00	0.00	0.00	9.29	0.00	0.00	0.00	0.00
171	15.400	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.53	0.00	0.00	0.00	9.30	0.00	0.00	0.00	0.00
172	15.300	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.53	0.00	0.00	0.00	9.31	0.00	0.00	0.00	0.00
173	15.200	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.52	0.00	0.00	0.00	9.31	0.00	0.00	0.00	0.00
174	15.100	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.52	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00
175	15.000	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.52	0.00	0.00	0.00	9.33	0.00	0.00	0.00	0.00
176	14.900	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.52	0.00	0.00	0.00	9.34	0.00	0.00	0.00	0.00
177	14.800	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.52	0.00	0.00	0.00	9.34	0.00	0.00	0.00	0.00
178	14.700	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.51	0.00	0.00	0.00	9.35	0.00	0.00	0.00	0.00
179	14.600	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.51	0.00	0.00	0.00	9.36	0.00	0.00	0.00	0.00
180	14.500	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	0.03	0.00	0.51	0.00	0.00	0.00	9.36	0.00	0.00	0.00	0.00
181	14.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.50	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00
182	14.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.50	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00

183	14.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.50	0.00	0.00	0.00	9.24	0.00	0.00	0.00	0.00
184	14.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.50	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
185	14.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.51	0.00	0.00	0.00	9.15	0.00	0.00	0.00	0.00
186	13.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.51	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
187	13.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.52	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
188	13.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.52	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
189	13.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	0.03	0.00	0.53	0.00	0.00	0.00	8.98	0.00	0.00	0.00	0.00
190	13.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	8.94	0.00	0.00	0.00	0.00
191	13.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.90	0.00	0.00	0.00	0.00
192	13.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.85	0.00	0.00	0.00	0.00
193	13.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.81	0.00	0.00	0.00	0.00
194	13.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.77	0.00	0.00	0.00	0.00
195	13.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.73	0.00	0.00	0.00	0.00
196	12.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.68	0.00	0.00	0.00	0.00
197	12.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.64	0.00	0.00	0.00	0.00
198	12.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.60	0.00	0.00	0.00	0.00
199	12.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.55	0.00	0.00	0.00	0.00
200	12.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.51	0.00	0.00	0.00	0.00
201	12.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.47	0.00	0.00	0.00	0.00
202	12.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.43	0.00	0.00	0.00	0.00
203	12.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.38	0.00	0.00	0.00	0.00
204	12.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.34	0.00	0.00	0.00	0.00
205	12.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.30	0.00	0.00	0.00	0.00
206	11.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.00
207	11.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.21	0.00	0.00	0.00	0.00
208	11.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.17	0.00	0.00	0.00	0.00
209	11.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.13	0.00	0.00	0.00	0.00
210	11.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.09	0.00	0.00	0.00	0.00
211	11.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.04	0.00	0.00	0.00	0.00
212	11.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
213	11.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.96	0.00	0.00	0.00	0.00
214	11.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00
215	11.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.87	0.00	0.00	0.00	0.00
216	10.900	7.23	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
217	10.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.79	0.00	0.00	0.00	0.00
218	10.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.75	0.00	0.00	0.00	0.00
219	10.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.70	0.00	0.00	0.00	0.00
220	10.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.66	0.00	0.00	0.00	0.00
221	10.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.62	0.00	0.00	0.00	0.00
222	10.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.58	0.00	0.00	0.00	0.00
223	10.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.53	0.00	0.00	0.00	0.00
224	10.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.49	0.00	0.00	0.00	0.00
225	10.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00
226	9.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.41	0.00	0.00	0.00	0.00
227	9.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.36	0.00	0.00	0.00	0.00
228	9.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.32	0.00	0.00	0.00	0.00
229	9.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.28	0.00	0.00	0.00	0.00
230	9.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.24	0.00	0.00	0.00	0.00
231	9.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.19	0.00	0.00	0.00	0.00
232	9.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.15	0.00	0.00	0.00	0.00

233	9.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.11	0.00	0.00	0.00	0.00
234	9.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.07	0.00	0.00	0.00	0.00
235	9.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.02	0.00	0.00	0.00	0.00
236	8.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.98	0.00	0.00	0.00	0.00
237	8.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.94	0.00	0.00	0.00	0.00
238	8.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.90	0.00	0.00	0.00	0.00
239	8.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
240	8.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
241	8.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
242	8.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
243	8.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
244	8.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
245	8.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
246	7.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
247	7.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
248	7.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00
249	7.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.43	0.00	0.00	0.00	0.00
250	7.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.39	0.00	0.00	0.00	0.00
251	7.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.34	0.00	0.00	0.00	0.00
252	7.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00
253	7.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00
254	7.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.22	0.00	0.00	0.00	0.00
255	7.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.17	0.00	0.00	0.00	0.00
256	6.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.13	0.00	0.00	0.00	0.00
257	6.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.09	0.00	0.00	0.00	0.00
258	6.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
259	6.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.01	0.00	0.00	0.00	0.00
260	6.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.96	0.00	0.00	0.00	0.00
261	6.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00
262	6.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.88	0.00	0.00	0.00	0.00
263	6.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.84	0.00	0.00	0.00	0.00
264	6.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.79	0.00	0.00	0.00	0.00
265	6.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00
266	5.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.71	0.00	0.00	0.00	0.00
267	5.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.67	0.00	0.00	0.00	0.00
268	5.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.62	0.00	0.00	0.00	0.00
269	5.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.58	0.00	0.00	0.00	0.00
270	5.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.54	0.00	0.00	0.00	0.00
271	5.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00
272	5.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.45	0.00	0.00	0.00	0.00
273	5.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.41	0.00	0.00	0.00	0.00
274	5.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.37	0.00	0.00	0.00	0.00
275	5.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.33	0.00	0.00	0.00	0.00
276	4.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.28	0.00	0.00	0.00	0.00
277	4.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.00
278	4.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.20	0.00	0.00	0.00	0.00
279	4.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
280	4.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
281	4.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00
282	4.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00

283	4.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00		
284	4.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	4.95	0.00	0.00	0.00	0.00		
285	4.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00		
286	3.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.86	0.00	0.00	0.00	0.00		
287	3.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.82	0.00	0.00	0.00	0.00		
288	3.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.78	0.00	0.00	0.00	0.00		
289	3.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.73	0.00	0.00	0.00	0.00		
290	3.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.69	0.00	0.00	0.00	0.00		
291	3.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.65	0.00	0.00	0.00	0.00		
292	3.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.61	0.00	0.00	0.00	0.00		
293	3.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00		
294	3.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.52	0.00	0.00	0.00	0.00		
295	3.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.48	0.00	0.00	0.00	0.00		
296	2.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00		
297	2.800	7.25	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.03	0.00	0.52	0.00	0.00	0.00	4.28	0.00	0.00	0.00	0.00		
298	2.700	7.26	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.87	0.87	0.03	0.00	0.52	0.00	0.00	0.00	4.12	0.00	0.00	0.00	0.00		
299	2.600	7.26	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.87	0.87	0.03	0.00	0.51	0.00	0.00	0.00	3.97	0.00	0.00	0.00	0.00		
300	2.500	7.27	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.87	0.87	0.03	0.00	0.51	0.00	0.00	0.00	3.81	0.00	0.00	0.00	0.00		
301	2.400	7.28	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.51	0.00	0.00	0.00	3.65	0.00	0.00	0.00	0.00		
302	2.300	7.29	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.51	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00		
303	2.200	7.29	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.03	0.00	0.50	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00		
304	2.100	7.30	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.50	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00		
305	2.000	7.31	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.50	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00		
306	1.900	7.32	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.03	0.00	0.49	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00		
307	1.800	7.32	0.48	0.34	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.03	0.00	0.49	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00		
308	1.700	7.33	0.48	0.34	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.03	0.00	0.49	0.00	0.00	0.00	2.59	0.00	0.00	0.00	0.00		
309	1.600	7.34	0.48	0.34	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.03	0.00	0.49	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00		
310	1.500	7.34	0.48	0.34	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.03	0.00	0.48	0.00	0.00	0.00	2.29	0.00	0.00	0.00	0.00		
311	1.400	7.35	0.48	0.34	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.03	0.00	0.48	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00		
312	1.300	7.36	0.48	0.34	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.03	0.00	0.48	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00		
313	1.200	7.37	0.47	0.34	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.03	0.00	0.47	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00		
314	1.100	7.37	0.47	0.34	0.00	0.00	0.00	0.00	0.00	0.82	0.82	0.03	0.00	0.47	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00		
315	1.000	7.38	0.47	0.34	0.00	0.00	0.00	0.00	0.00	0.82	0.82	0.03	0.00	0.47	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00		
316	0.900	7.39	0.47	0.34	0.00	0.00	0.00	0.00	0.00	0.82	0.82	0.03	0.00	0.46	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00		
317	0.800	7.40	0.47	0.34	0.00	0.00	0.00	0.00	0.00	0.81	0.81	0.03	0.00	0.46	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00		
318	0.700	7.40	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.81	0.81	0.02	0.00	0.46	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00		
319	0.600	7.41	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.81	0.81	0.02	0.00	0.45	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00		
320	0.500	7.42	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.02	0.00	0.45	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00		
321	0.400	7.43	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.02	0.00	0.45	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00		
322	0.300	7.43	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.02	0.00	0.44	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00		
323	0.200	7.44	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.02	0.00	0.44	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00		
324	0.100	7.45	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.02	0.00	0.44	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00		
325	0.000	7.46	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.02	0.00	0.43	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00		

SPECIAL REPORT: Fourmile Bayou Oxbow

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#1 SETT	BOD#2 DECAY	ABOD#2 SOD	FULL SOD	CORR DECAY	ORG-N SETT	ORG-N DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	km	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da	
56	4.100	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	1.68	1.68	0.03	0.00	0.58	0.00	0.00	0.00	8.84	0.00	0.00	0.00	0.00	
57	4.000	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	8.68	0.00	0.00	0.00	0.00	

58	3.900	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	8.53	0.00	0.00	0.00	0.00
59	3.800	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	8.37	0.00	0.00	0.00	0.00
60	3.700	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	1.67	1.67	0.03	0.00	0.57	0.00	0.00	0.00	8.22	0.00	0.00	0.00	0.00
61	3.600	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.57	0.00	0.00	0.00	8.06	0.00	0.00	0.00	0.00
62	3.500	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.57	0.00	0.00	0.00	7.91	0.00	0.00	0.00	0.00
63	3.400	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.57	0.00	0.00	0.00	7.75	0.00	0.00	0.00	0.00
64	3.300	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.66	1.66	0.03	0.00	0.57	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00
65	3.200	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.56	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00
66	3.100	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.56	0.00	0.00	0.00	7.29	0.00	0.00	0.00	0.00
67	3.000	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.56	0.00	0.00	0.00	7.14	0.00	0.00	0.00	0.00
68	2.900	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.65	1.65	0.03	0.00	0.56	0.00	0.00	0.00	6.99	0.00	0.00	0.00	0.00
69	2.800	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.56	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
70	2.700	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.56	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
71	2.600	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.55	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00
72	2.500	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.55	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00
73	2.400	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.03	0.00	0.55	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00
74	2.300	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.55	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00
75	2.200	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.55	0.00	0.00	0.00	5.93	0.00	0.00	0.00	0.00
76	2.100	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.55	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00
77	2.000	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.03	0.00	0.55	0.00	0.00	0.00	5.63	0.00	0.00	0.00	0.00
78	1.900	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.55	0.00	0.00	0.00	5.48	0.00	0.00	0.00	0.00
79	1.800	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.55	0.00	0.00	0.00	5.34	0.00	0.00	0.00	0.00
80	1.700	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.54	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.00
81	1.600	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.62	1.62	0.03	0.00	0.54	0.00	0.00	0.00	5.04	0.00	0.00	0.00	0.00
82	1.500	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.54	0.00	0.00	0.00	4.89	0.00	0.00	0.00	0.00
83	1.400	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.54	0.00	0.00	0.00	4.74	0.00	0.00	0.00	0.00
84	1.300	7.16	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.54	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00
85	1.200	7.16	0.36	0.38	0.00	0.00	0.00	0.00	0.00	1.61	1.61	0.03	0.00	0.54	0.00	0.00	0.00	4.45	0.00	0.00	0.00	0.00
86	1.100	7.16	0.36	0.38	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.54	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00
87	1.000	7.17	0.36	0.38	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.53	0.00	0.00	0.00	4.16	0.00	0.00	0.00	0.00
88	0.900	7.17	0.36	0.38	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.53	0.00	0.00	0.00	4.01	0.00	0.00	0.00	0.00
89	0.800	7.17	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.60	1.60	0.03	0.00	0.53	0.00	0.00	0.00	3.87	0.00	0.00	0.00	0.00
90	0.700	7.18	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.59	1.59	0.03	0.00	0.53	0.00	0.00	0.00	3.72	0.00	0.00	0.00	0.00
91	0.600	7.18	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.59	1.59	0.03	0.00	0.53	0.00	0.00	0.00	3.58	0.00	0.00	0.00	0.00
92	0.500	7.18	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.59	1.59	0.03	0.00	0.53	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00
93	0.400	7.18	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.59	1.59	0.03	0.00	0.52	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
94	0.300	7.19	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00
95	0.200	7.19	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
96	0.100	7.19	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
97	0.000	7.20	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00

FINAL REPORT Grassy Lake LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 1 Grassy Lake TMDL Simulation for Lake Verret and Grassy Lake model

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

ELEM NO.	TYPE	FLOW	TEMP	SALN	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NCM
		deg C	ppt		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL	
1	HDWTR	20.23333	30.00	0.00	0.00	0.00	6.70	23.50	0.00	23.50	0.00	1.60	0.10	0.04	0.00	100.00	0.00	0.00
26	WSTLD	-2.93333	33.69	0.00	0.00	0.00	6.87	21.64	0.00	21.64	0.00	1.89	0.09	0.00	0.00	96.29	0.00	0.00

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

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

	km	km	m³/s	m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s			
1	28.30	28.20	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
2	28.20	28.10	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
3	28.10	28.00	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
4	28.00	27.90	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
5	27.90	27.80	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
6	27.80	27.70	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
7	27.70	27.60	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
8	27.60	27.50	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
9	27.50	27.40	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
10	27.40	27.30	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
11	27.30	27.20	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
12	27.20	27.10	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
13	27.10	27.00	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
14	27.00	26.90	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
15	26.90	26.80	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
16	26.80	26.70	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
17	26.70	26.60	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
18	26.60	26.50	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
19	26.50	26.40	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
20	26.40	26.30	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
21	26.30	26.20	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
22	26.20	26.10	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
23	26.10	26.00	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
24	26.00	25.90	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
25	25.90	25.80	20.23333	0.0	0.01492	0.08	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.015	
26	25.80	25.70	17.30000	0.0	0.01275	0.09	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.013	
27	25.70	25.60	17.30000	0.0	0.01275	0.09	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.013	
28	25.60	25.50	17.30000	0.0	0.01275	0.09	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.013	
29	25.50	25.40	17.30000	0.0	0.01275	0.09	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.013	
30	25.40	25.30	17.30000	0.0	0.01275	0.09	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.013	
31	25.30	25.20	17.30000	0.0	0.01275	0.09	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.013	
32	25.20	25.10	17.30000	0.0	0.01275	0.09	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.013	
33	25.10	25.00	17.30000	0.0	0.01275	0.09	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.013	
34	25.00	24.90	17.30000	0.0	0.01275	0.09	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.013	
35	24.90	24.80	17.30000	0.0	0.01275	0.09	1.01	1343.00	135643.00	134300.00	1356.43		0.00	0.000	0.500	0.013	
TOT					2.85			4747505.00	4700500.00								
AVG				0.0142			1.01	1343.00			1356.43						
CUM					2.85												

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	ABOD#1 DECAY	BOD#2 DECAY	BOD#2 SETT	ABOD#2 DECAY	BKGD SOD	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	*	1/da	*	**	**	1/da	1/da	1/da
1	28.200	7.17	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.55	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00
2	28.100	7.17	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.55	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00
3	28.000	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.55	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00
4	27.900	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
5	27.800	7.16	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
6	27.700	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
7	27.600	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00

8	27.500	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
9	27.400	7.15	0.94	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
10	27.300	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
11	27.200	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
12	27.100	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.56	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
13	27.000	7.14	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
14	26.900	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
15	26.800	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
16	26.700	7.13	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
17	26.600	7.12	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
18	26.500	7.12	0.95	0.33	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
19	26.400	7.12	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
20	26.300	7.12	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
21	26.200	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.57	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
22	26.100	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
23	26.000	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
24	25.900	7.11	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
25	25.800	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
26	25.700	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
27	25.600	7.10	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
28	25.500	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
29	25.400	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
30	25.300	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.59	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
31	25.200	7.09	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.59	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
32	25.100	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.59	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
33	25.000	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.59	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
34	24.900	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.68	1.68	1.68	0.03	0.00	0.59	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
35	24.800	7.08	0.95	0.34	0.00	0.00	0.00	0.00	0.00	1.68	1.68	1.68	0.03	0.00	0.59	0.00	0.00	0.00	8.99	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.74	0.18	0.00	0.00	0.00	0.00	0.00	0.70			0.02	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL				
1	28.200	33.12 0.00	0.00	0.00	6.71	23.38	0.00	23.38	0.00	1.62	0.10	0.01	1.72	0.00	99.86	0.00	0.	0.00	
2	28.100	33.15 0.00	0.00	0.00	6.71	23.30	0.00	23.30	0.00	1.63	0.10	0.00	1.72	0.00	99.71	0.00	0.	0.00	
3	28.000	33.17 0.00	0.00	0.00	6.72	23.22	0.00	23.22	0.00	1.64	0.10	0.00	1.74	0.00	99.57	0.00	0.	0.00	
4	27.900	33.19 0.00	0.00	0.00	6.72	23.13	0.00	23.13	0.00	1.65	0.10	0.00	1.75	0.00	99.43	0.00	0.	0.00	
5	27.800	33.21 0.00	0.00	0.00	6.73	23.05	0.00	23.05	0.00	1.66	0.10	0.00	1.76	0.00	99.29	0.00	0.	0.00	
6	27.700	33.24 0.00	0.00	0.00	6.73	22.98	0.00	22.98	0.00	1.67	0.09	0.00	1.77	0.00	99.14	0.00	0.	0.00	
7	27.600	33.26 0.00	0.00	0.00	6.74	22.90	0.00	22.90	0.00	1.68	0.09	0.00	1.78	0.00	99.00	0.00	0.	0.00	
8	27.500	33.28 0.00	0.00	0.00	6.75	22.82	0.00	22.82	0.00	1.69	0.09	0.00	1.79	0.00	98.86	0.00	0.	0.00	
9	27.400	33.31 0.00	0.00	0.00	6.75	22.75	0.00	22.75	0.00	1.71	0.09	0.00	1.80	0.00	98.71	0.00	0.	0.00	
10	27.300	33.33 0.00	0.00	0.00	6.76	22.67	0.00	22.67	0.00	1.72	0.09	0.00	1.81	0.00	98.57	0.00	0.	0.00	
11	27.200	33.35 0.00	0.00	0.00	6.77	22.60	0.00	22.60	0.00	1.73	0.09	0.00	1.82	0.00	98.43	0.00	0.	0.00	
12	27.100	33.37 0.00	0.00	0.00	6.78	22.53	0.00	22.53	0.00	1.74	0.09	0.00	1.83	0.00	98.29	0.00	0.	0.00	
13	27.000	33.40 0.00	0.00	0.00	6.78	22.46	0.00	22.46	0.00	1.75	0.09	0.00	1.84	0.00	98.14	0.00	0.	0.00	
14	26.900	33.42 0.00	0.00	0.00	6.79	22.39	0.00	22.39	0.00	1.76	0.09	0.00	1.85	0.00	98.00	0.00	0.	0.00	
15	26.800	33.44 0.00	0.00	0.00	6.80	22.32	0.00	22.32	0.00	1.77	0.09	0.00	1.86	0.00	97.86	0.00	0.	0.00	
16	26.700	33.47 0.00	0.00	0.00	6.81	22.26	0.00	22.26	0.00	1.78	0.09	0.00	1.87	0.00	97.71	0.00	0.	0.00	
17	26.600	33.49 0.00	0.00	0.00	6.81	22.19	0.00	22.19	0.00	1.80	0.09	0.00	1.88	0.00	97.57	0.00	0.	0.00	

18	26.500	33.51	0.00	0.00	0.00	6.82	22.13	0.00	22.13	0.00	1.81	0.09	0.00	1.90	0.00	97.43	0.00	0.	0.00
19	26.400	33.53	0.00	0.00	0.00	6.83	22.06	0.00	22.06	0.00	1.82	0.09	0.00	1.91	0.00	97.29	0.00	0.	0.00
20	26.300	33.56	0.00	0.00	0.00	6.84	22.00	0.00	22.00	0.00	1.83	0.09	0.00	1.92	0.00	97.14	0.00	0.	0.00
21	26.200	33.58	0.00	0.00	0.00	6.84	21.94	0.00	21.94	0.00	1.84	0.09	0.00	1.93	0.00	97.00	0.00	0.	0.00
22	26.100	33.60	0.00	0.00	0.00	6.85	21.88	0.00	21.88	0.00	1.85	0.09	0.00	1.94	0.00	96.86	0.00	0.	0.00
23	26.000	33.63	0.00	0.00	0.00	6.86	21.82	0.00	21.82	0.00	1.86	0.09	0.00	1.95	0.00	96.71	0.00	0.	0.00
24	25.900	33.65	0.00	0.00	0.00	6.86	21.76	0.00	21.76	0.00	1.87	0.09	0.00	1.96	0.00	96.57	0.00	0.	0.00
25	25.800	33.67	0.00	0.00	0.00	6.87	21.70	0.00	21.70	0.00	1.88	0.09	0.00	1.97	0.00	96.43	0.00	0.	0.00
26	25.700	33.69	0.00	0.00	0.00	6.87	21.64	0.00	21.64	0.00	1.89	0.09	0.00	1.98	0.00	96.29	0.00	0.	0.00
27	25.600	33.72	0.00	0.00	0.00	6.88	21.58	0.00	21.58	0.00	1.91	0.09	0.00	1.99	0.00	96.14	0.00	0.	0.00
28	25.500	33.74	0.00	0.00	0.00	6.89	21.51	0.00	21.51	0.00	1.92	0.09	0.00	2.01	0.00	96.00	0.00	0.	0.00
29	25.400	33.76	0.00	0.00	0.00	6.89	21.45	0.00	21.45	0.00	1.93	0.09	0.00	2.02	0.00	95.86	0.00	0.	0.00
30	25.300	33.79	0.00	0.00	0.00	6.90	21.39	0.00	21.39	0.00	1.94	0.09	0.00	2.03	0.00	95.71	0.00	0.	0.00
31	25.200	33.81	0.00	0.00	0.00	6.91	21.33	0.00	21.33	0.00	1.96	0.09	0.00	2.04	0.00	95.57	0.00	0.	0.00
32	25.100	33.83	0.00	0.00	0.00	6.91	21.27	0.00	21.27	0.00	1.97	0.09	0.00	2.06	0.00	95.43	0.00	0.	0.00
33	25.000	33.85	0.00	0.00	0.00	6.92	21.21	0.00	21.21	0.00	1.98	0.09	0.00	2.07	0.00	95.29	0.00	0.	0.00
34	24.900	33.88	0.00	0.00	0.00	6.92	21.14	0.00	21.14	0.00	1.99	0.09	0.00	2.08	0.00	95.14	0.00	0.	0.00
35	24.800	33.90	0.00	0.00	0.00	6.93	21.06	0.00	21.06	0.00	2.00	0.09	0.00	2.09	0.00	95.00	0.00	0.	0.00

FINAL REPORT Grassy Lake LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 2 Fourmile Bayou 1 TMDL Simulation for Lake Verret and Grassy Lake model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2 #/100mL	PHOS	CHL A	COLI	NCM
36	UPR RCH	17.30000	33.90	0.00	0.00	0.00	6.93	21.06	0.00	21.06	0.00	2.00	0.09	0.00	0.00	95.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW EFF m³/s	PCT VELO m/s	ADVCTV TIME days	TRAVEL m	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	
36	24.80	24.70	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
37	24.70	24.60	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
38	24.60	24.50	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
39	24.50	24.40	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
40	24.40	24.30	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
41	24.30	24.20	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
42	24.20	24.10	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
43	24.10	24.00	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
44	24.00	23.90	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
45	23.90	23.80	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
46	23.80	23.70	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
47	23.70	23.60	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
48	23.60	23.50	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
49	23.50	23.40	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
50	23.40	23.30	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
51	23.30	23.20	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
52	23.20	23.10	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
53	23.10	23.00	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
54	23.00	22.90	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
55	22.90	22.80	17.30000	0.0	0.03086	0.04	5.24	107.00	56068.00	10700.00	560.68	0.00	0.000	0.400	0.031	
TOT					0.75				1121360.00	214000.00						
AVG			0.0309				5.24	107.00			560.68					

CUM 3.60

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	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	1/da	1/da			
36	24.700	7.08	0.17	0.40	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.59	0.00	0.00	0.00	8.67	0.00	0.00	0.00	0.00	
37	24.600	7.09	0.17	0.40	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.59	0.00	0.00	0.00	8.34	0.00	0.00	0.00	0.00	
38	24.500	7.09	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	8.02	0.00	0.00	0.00	0.00	
39	24.400	7.10	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.58	0.00	0.00	0.00	7.69	0.00	0.00	0.00	0.00	
40	24.300	7.11	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.58	0.00	0.00	0.00	7.37	0.00	0.00	0.00	0.00	
41	24.200	7.11	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.57	0.00	0.00	0.00	7.05	0.00	0.00	0.00	0.00	
42	24.100	7.12	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00	
43	24.000	7.12	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.57	0.00	0.00	0.00	6.41	0.00	0.00	0.00	0.00	
44	23.900	7.13	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.57	0.00	0.00	0.00	6.10	0.00	0.00	0.00	0.00	
45	23.800	7.14	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.56	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00	
46	23.700	7.14	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	5.47	0.00	0.00	0.00	0.00	
47	23.600	7.15	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.56	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00	
48	23.500	7.15	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.55	0.00	0.00	0.00	4.85	0.00	0.00	0.00	0.00	
49	23.400	7.16	0.17	0.39	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.55	0.00	0.00	0.00	4.54	0.00	0.00	0.00	0.00	
50	23.300	7.16	0.17	0.38	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.54	0.00	0.00	0.00	4.23	0.00	0.00	0.00	0.00	
51	23.200	7.17	0.17	0.38	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.54	0.00	0.00	0.00	3.92	0.00	0.00	0.00	0.00	
52	23.100	7.18	0.17	0.38	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.03	0.00	0.54	0.00	0.00	0.00	3.62	0.00	0.00	0.00	0.00	
53	23.000	7.18	0.17	0.38	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.03	0.00	0.53	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00	
54	22.900	7.19	0.17	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.03	0.00	0.53	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00	
55	22.800	7.20	0.17	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00	
AVG 20 DEG C RATE			0.13	0.21	0.00	0.00	0.00	0.00	0.00	0.70			0.02	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT		CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
					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	
36	24.700	33.85	0.00	0.00	0.00	6.92	20.79	0.00	20.79	0.00	2.00	0.09	0.00	2.09	0.00	91.75	0.00	0.	0.00	
37	24.600	33.80	0.00	0.00	0.00	6.91	20.51	0.00	20.51	0.00	2.00	0.09	0.00	2.09	0.00	88.50	0.00	0.	0.00	
38	24.500	33.75	0.00	0.00	0.00	6.89	20.22	0.00	20.22	0.00	2.01	0.09	0.00	2.09	0.00	85.25	0.00	0.	0.00	
39	24.400	33.70	0.00	0.00	0.00	6.87	19.95	0.00	19.95	0.00	2.01	0.09	0.00	2.09	0.00	82.00	0.00	0.	0.00	
40	24.300	33.65	0.00	0.00	0.00	6.83	19.67	0.00	19.67	0.00	2.01	0.09	0.00	2.10	0.00	78.75	0.00	0.	0.00	
41	24.200	33.60	0.00	0.00	0.00	6.79	19.41	0.00	19.41	0.00	2.01	0.09	0.00	2.10	0.00	75.50	0.00	0.	0.00	
42	24.100	33.55	0.00	0.00	0.00	6.75	19.14	0.00	19.14	0.00	2.01	0.09	0.00	2.10	0.00	72.25	0.00	0.	0.00	
43	24.000	33.50	0.00	0.00	0.00	6.69	18.88	0.00	18.88	0.00	2.01	0.09	0.00	2.10	0.00	69.00	0.00	0.	0.00	
44	23.900	33.45	0.00	0.00	0.00	6.63	18.63	0.00	18.63	0.00	2.01	0.09	0.00	2.10	0.00	65.75	0.00	0.	0.00	
45	23.800	33.40	0.00	0.00	0.00	6.56	18.38	0.00	18.38	0.00	2.01	0.09	0.00	2.10	0.00	62.50	0.00	0.	0.00	
46	23.700	33.35	0.00	0.00	0.00	6.49	18.13	0.00	18.13	0.00	2.01	0.09	0.00	2.10	0.00	59.25	0.00	0.	0.00	
47	23.600	33.30	0.00	0.00	0.00	6.41	17.89	0.00	17.89	0.00	2.01	0.09	0.00	2.10	0.00	56.00	0.00	0.	0.00	
48	23.500	33.25	0.00	0.00	0.00	6.32	17.65	0.00	17.65	0.00	2.02	0.09	0.00	2.10	0.00	52.75	0.00	0.	0.00	
49	23.400	33.20	0.00	0.00	0.00	6.22	17.42	0.00	17.42	0.00	2.02	0.09	0.00	2.11	0.00	49.50	0.00	0.	0.00	
50	23.300	33.15	0.00	0.00	0.00	6.12	17.19	0.00	17.19	0.00	2.02	0.09	0.00	2.11	0.00	46.25	0.00	0.	0.00	
51	23.200	33.10	0.00	0.00	0.00	6.01	16.96	0.00	16.96	0.00	2.02	0.09	0.00	2.11	0.00	43.00	0.00	0.	0.00	
52	23.100	33.05	0.00	0.00	0.00	5.89	16.74	0.00	16.74	0.00	2.02	0.09	0.00	2.11	0.00	39.75	0.00	0.	0.00	
53	23.000	33.00	0.00	0.00	0.00	5.77	16.52	0.00	16.52	0.00	2.02	0.09	0.00	2.11	0.00	36.50	0.00	0.	0.00	
54	22.900	32.95	0.00	0.00	0.00	5.64	16.29	0.00	16.29	0.00	2.02	0.09	0.00	2.11	0.00	33.25	0.00	0.	0.00	
55	22.800	32.90	0.00	0.00	0.00	5.51	16.02	0.00	16.02	0.00	2.02	0.09	0.00	2.11	0.00	30.00	0.00	0.	0.00	

FINAL REPORT Grassy Lake LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 4 Fourmile Bayou 2 TMDL Simulation for Lake Verret and Grassy Lake model

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

ELEM NO.	TYPE	FLOW	TEMP	SALN	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NCM
			deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL	
98	UPR RCH	17.30000	32.90	0.00	0.00	0.00	5.51	16.02	0.00	16.02	0.00	2.02	0.09	0.00	0.00	30.00	0.00	0.00
98	TRIB	2.93333	32.90	0.00	0.00	0.00	5.23	10.57	0.00	10.57	0.00	1.95	0.09	0.00	0.00	30.00	0.00	0.00

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

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	PCT EFF	ADVCTV VELO	TRAVEL TIME	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	TIDAL PRISM	TIDAL VELO	DISPRSN	MEAN VELO
	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
98	22.80	22.70	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
99	22.70	22.60	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
100	22.60	22.50	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
101	22.50	22.40	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
102	22.40	22.30	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
103	22.30	22.20	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
104	22.20	22.10	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
105	22.10	22.00	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
106	22.00	21.90	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
107	21.90	21.80	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
108	21.80	21.70	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
109	21.70	21.60	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
110	21.60	21.50	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
111	21.50	21.40	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
112	21.40	21.30	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
113	21.30	21.20	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
114	21.20	21.10	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
115	21.10	21.00	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
116	21.00	20.90	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
117	20.90	20.80	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
118	20.80	20.70	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
119	20.70	20.60	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
120	20.60	20.50	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
121	20.50	20.40	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
122	20.40	20.30	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
123	20.30	20.20	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
124	20.20	20.10	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
125	20.10	20.00	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
126	20.00	19.90	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
127	19.90	19.80	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
128	19.80	19.70	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
129	19.70	19.60	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
130	19.60	19.50	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
131	19.50	19.40	20.23333	0.0	0.05298	0.02	4.39	87.00	38193.00	8700.00	381.93	0.00	0.000	0.200	0.053
TOT						0.74			1298562.00	295800.00					
AVG					0.0530		4.39	87.00			381.93				
CUM						4.34									

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

ELEM	ENDING SAT	REAER	BOD#1	BOD#1	ABOD#1	BOD#2	BOD#2	ABOD#2	BKGD	FULL	CORR	ORGN	ORGN	NH3	NH3	DENIT	PO4	ALG	MAC	COLI	NCM	NCM

NO.	DIST	D.O.	RATE	DECAY	SETT	DECAY	DECAY	SETT	DECAY	SOD	SOD	SOD	DECAY	SETT	DECAY	SRCE	RATE	SRCE	PROD	PROD	DECAY	DECAY	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	1/da	1/da		
98	22.700	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00
99	22.600	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00
100	22.500	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	3.27	0.00	0.00	0.00	0.00
101	22.400	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00
102	22.300	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	3.64	0.00	0.00	0.00	0.00
103	22.200	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.03	0.00	0.51	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00
104	22.100	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.03	0.00	0.51	0.00	0.00	0.00	4.01	0.00	0.00	0.00	0.00
105	22.000	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.00
106	21.900	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	4.38	0.00	0.00	0.00	0.00
107	21.800	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00
108	21.700	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	4.75	0.00	0.00	0.00	0.00
109	21.600	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.00
110	21.500	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
111	21.400	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	5.31	0.00	0.00	0.00	0.00
112	21.300	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	5.49	0.00	0.00	0.00	0.00
113	21.200	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	5.68	0.00	0.00	0.00	0.00
114	21.100	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	5.86	0.00	0.00	0.00	0.00
115	21.000	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
116	20.900	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00
117	20.800	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	6.42	0.00	0.00	0.00	0.00
118	20.700	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
119	20.600	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00
120	20.500	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.51	0.00	0.00	0.00	6.97	0.00	0.00	0.00	0.00
121	20.400	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	7.16	0.00	0.00	0.00	0.00
122	20.300	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	7.34	0.00	0.00	0.00	0.00
123	20.200	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	7.53	0.00	0.00	0.00	0.00
124	20.100	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	7.71	0.00	0.00	0.00	0.00
125	20.000	7.20	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	7.90	0.00	0.00	0.00	0.00
126	19.900	7.21	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	8.08	0.00	0.00	0.00	0.00
127	19.800	7.21	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.00
128	19.700	7.21	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.52	0.00	0.00	0.00	8.45	0.00	0.00	0.00	0.00
129	19.600	7.21	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.53	0.00	0.00	0.00	8.63	0.00	0.00	0.00	0.00
130	19.500	7.21	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.53	0.00	0.00	0.00	8.82	0.00	0.00	0.00	0.00
131	19.400	7.21	0.20	0.38	0.00	0.00	0.00	0.00	0.00	1.57	1.57	1.57	0.03	0.00	0.53	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.16	0.21	0.00	0.00	0.00	0.00	0.00	0.70			0.02	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL				
98	22.700	32.90	0.00 0.00	0.00	5.40	14.90	0.00	14.90	0.00	2.01	0.09	0.00	2.10	0.00	32.06	0.00	0.	0.00	
99	22.600	32.89	0.00 0.00	0.00	5.34	14.79	0.00	14.79	0.00	2.01	0.09	0.00	2.10	0.00	34.12	0.00	0.	0.00	
100	22.500	32.89	0.00 0.00	0.00	5.29	14.67	0.00	14.67	0.00	2.01	0.09	0.00	2.10	0.00	36.18	0.00	0.	0.00	
101	22.400	32.89	0.00 0.00	0.00	5.24	14.56	0.00	14.56	0.00	2.01	0.09	0.00	2.10	0.00	38.24	0.00	0.	0.00	
102	22.300	32.89	0.00 0.00	0.00	5.20	14.45	0.00	14.45	0.00	2.01	0.09	0.00	2.10	0.00	40.29	0.00	0.	0.00	
103	22.200	32.88	0.00 0.00	0.00	5.16	14.34	0.00	14.34	0.00	2.01	0.09	0.00	2.10	0.00	42.35	0.00	0.	0.00	
104	22.100	32.88	0.00 0.00	0.00	5.13	14.23	0.00	14.23	0.00	2.01	0.09	0.00	2.10	0.00	44.41	0.00	0.	0.00	
105	22.000	32.88	0.00 0.00	0.00	5.10	14.12	0.00	14.12	0.00	2.01	0.09	0.00	2.10	0.00	46.47	0.00	0.	0.00	
106	21.900	32.87	0.00 0.00	0.00	5.07	14.01	0.00	14.01	0.00	2.01	0.09	0.00	2.10	0.00	48.53	0.00	0.	0.00	

107	21.800	32.87	0.00	0.00	0.00	5.06	13.91	0.00	13.91	0.00	2.01	0.09	0.00	2.11	0.00	50.59	0.00	0.	0.00
108	21.700	32.87	0.00	0.00	0.00	5.04	13.80	0.00	13.80	0.00	2.01	0.09	0.00	2.11	0.00	52.65	0.00	0.	0.00
109	21.600	32.86	0.00	0.00	0.00	5.04	13.69	0.00	13.69	0.00	2.02	0.09	0.00	2.11	0.00	54.71	0.00	0.	0.00
110	21.500	32.86	0.00	0.00	0.00	5.03	13.59	0.00	13.59	0.00	2.02	0.09	0.00	2.11	0.00	56.76	0.00	0.	0.00
111	21.400	32.86	0.00	0.00	0.00	5.03	13.49	0.00	13.49	0.00	2.02	0.09	0.00	2.11	0.00	58.82	0.00	0.	0.00
112	21.300	32.86	0.00	0.00	0.00	5.04	13.38	0.00	13.38	0.00	2.02	0.09	0.00	2.11	0.00	60.88	0.00	0.	0.00
113	21.200	32.85	0.00	0.00	0.00	5.05	13.28	0.00	13.28	0.00	2.02	0.09	0.00	2.11	0.00	62.94	0.00	0.	0.00
114	21.100	32.85	0.00	0.00	0.00	5.07	13.18	0.00	13.18	0.00	2.02	0.09	0.00	2.11	0.00	65.00	0.00	0.	0.00
115	21.000	32.85	0.00	0.00	0.00	5.09	13.08	0.00	13.08	0.00	2.02	0.09	0.00	2.11	0.00	67.06	0.00	0.	0.00
116	20.900	32.84	0.00	0.00	0.00	5.12	12.98	0.00	12.98	0.00	2.02	0.09	0.00	2.11	0.00	69.12	0.00	0.	0.00
117	20.800	32.84	0.00	0.00	0.00	5.15	12.89	0.00	12.89	0.00	2.02	0.09	0.00	2.11	0.00	71.18	0.00	0.	0.00
118	20.700	32.84	0.00	0.00	0.00	5.18	12.79	0.00	12.79	0.00	2.02	0.09	0.00	2.11	0.00	73.24	0.00	0.	0.00
119	20.600	32.84	0.00	0.00	0.00	5.22	12.69	0.00	12.69	0.00	2.02	0.09	0.00	2.11	0.00	75.29	0.00	0.	0.00
120	20.500	32.83	0.00	0.00	0.00	5.27	12.60	0.00	12.60	0.00	2.02	0.09	0.00	2.11	0.00	77.35	0.00	0.	0.00
121	20.400	32.83	0.00	0.00	0.00	5.31	12.50	0.00	12.50	0.00	2.02	0.09	0.00	2.11	0.00	79.41	0.00	0.	0.00
122	20.300	32.83	0.00	0.00	0.00	5.37	12.41	0.00	12.41	0.00	2.02	0.09	0.00	2.12	0.00	81.47	0.00	0.	0.00
123	20.200	32.82	0.00	0.00	0.00	5.43	12.31	0.00	12.31	0.00	2.02	0.09	0.00	2.12	0.00	83.53	0.00	0.	0.00
124	20.100	32.82	0.00	0.00	0.00	5.49	12.22	0.00	12.22	0.00	2.02	0.09	0.00	2.12	0.00	85.59	0.00	0.	0.00
125	20.000	32.82	0.00	0.00	0.00	5.56	12.13	0.00	12.13	0.00	2.02	0.09	0.00	2.12	0.00	87.65	0.00	0.	0.00
126	19.900	32.81	0.00	0.00	0.00	5.63	12.04	0.00	12.04	0.00	2.02	0.09	0.00	2.12	0.00	89.71	0.00	0.	0.00
127	19.800	32.81	0.00	0.00	0.00	5.70	11.95	0.00	11.95	0.00	2.02	0.09	0.00	2.12	0.00	91.76	0.00	0.	0.00
128	19.700	32.81	0.00	0.00	0.00	5.79	11.86	0.00	11.86	0.00	2.03	0.09	0.00	2.12	0.00	93.82	0.00	0.	0.00
129	19.600	32.81	0.00	0.00	0.00	5.87	11.77	0.00	11.77	0.00	2.03	0.09	0.00	2.12	0.00	95.88	0.00	0.	0.00
130	19.500	32.80	0.00	0.00	0.00	5.96	11.69	0.00	11.69	0.00	2.03	0.09	0.00	2.12	0.00	97.94	0.00	0.	0.00
131	19.400	32.80	0.00	0.00	0.00	6.16	11.93	0.00	11.93	0.00	2.04	0.09	0.00	2.14	0.00	100.00	0.00	0.	0.00

FINAL REPORT Grassy Lake LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

REACH NO. 5 Lake Verret 1 TMDL Simulation for Lake Verret and Grassy Lake model

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN µg/L	NH3	NO3+2 #/100mL	PHOS	CHL A	COLI	NCM
132	UPR RCH	20.23333	32.80	0.00	0.00	0.00	6.16	11.93	0.00	11.93	0.00	2.04	0.09	0.00	0.00	100.00	0.00	0.00
132	WSTLD	10.03333	30.00	0.00	0.00	0.00	7.60	16.80	0.00	16.80	0.00	2.40	0.10	0.20	0.00	0.00	0.00	0.00
140	WSTLD	0.00197	30.00	0.00	0.00	0.00	5.00	69.00	0.00	69.00	0.00	5.00	10.00	2.00	0.00	0.00	0.00	0.00
149	WSTLD	0.00055	30.00	0.00	0.00	0.00	5.00	69.00	0.00	69.00	0.00	5.00	10.00	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
132	19.40	19.30	30.26666	33.1	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
133	19.30	19.20	30.26666	33.1	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
134	19.20	19.10	30.26666	33.1	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
135	19.10	19.00	30.26666	33.1	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
136	19.00	18.90	30.26666	33.1	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
137	18.90	18.80	30.26666	33.1	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
138	18.80	18.70	30.26666	33.1	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
139	18.70	18.60	30.26666	33.1	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
140	18.60	18.50	30.26863	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
141	18.50	18.40	30.26863	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
142	18.40	18.30	30.26863	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
143	18.30	18.20	30.26863	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012

144	18.20	18.10	30.26863	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
145	18.10	18.00	30.26863	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
146	18.00	17.90	30.26863	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
147	17.90	17.80	30.26863	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
148	17.80	17.70	30.26863	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
149	17.70	17.60	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
150	17.60	17.50	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
151	17.50	17.40	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
152	17.40	17.30	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
153	17.30	17.20	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
154	17.20	17.10	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
155	17.10	17.00	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
156	17.00	16.90	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
157	16.90	16.80	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
158	16.80	16.70	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
159	16.70	16.60	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
160	16.60	16.50	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
161	16.50	16.40	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
162	16.40	16.30	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
163	16.30	16.20	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
164	16.20	16.10	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
165	16.10	16.00	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
166	16.00	15.90	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
167	15.90	15.80	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
168	15.80	15.70	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
169	15.70	15.60	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
170	15.60	15.50	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
171	15.50	15.40	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
172	15.40	15.30	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
173	15.30	15.20	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
174	15.20	15.10	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
175	15.10	15.00	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
176	15.00	14.90	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
177	14.90	14.80	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
178	14.80	14.70	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
179	14.70	14.60	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
180	14.60	14.50	30.26918	33.2	0.01194	0.10	1.34	1892.00	253528.00	189200.00	2535.28	0.00	0.000	0.200	0.012
TOT				4.75				12422872.00	9270800.00						
AVG				0.0119			1.34	1892.00			2535.28				
CUM				9.09											

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI 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	1/da	1/da		
132	19.300	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.54	0.00	0.00	0.00	9.01	0.00	0.00	0.00	0.00
133	19.200	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
134	19.100	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00
135	19.000	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.03	0.00	0.00	0.00	0.00
136	18.900	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.04	0.00	0.00	0.00	0.00
137	18.800	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00

138	18.700	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.05	0.00	0.00	0.00	0.00
139	18.600	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.06	0.00	0.00	0.00	0.00
140	18.500	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00
141	18.400	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
142	18.300	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.08	0.00	0.00	0.00	0.00
143	18.200	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.09	0.00	0.00	0.00	0.00
144	18.100	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.10	0.00	0.00	0.00	0.00
145	18.000	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
146	17.900	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00
147	17.800	7.21	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.12	0.00	0.00	0.00	0.00
148	17.700	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.13	0.00	0.00	0.00	0.00
149	17.600	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.14	0.00	0.00	0.00	0.00
150	17.500	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.14	0.00	0.00	0.00	0.00
151	17.400	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.15	0.00	0.00	0.00	0.00
152	17.300	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.16	0.00	0.00	0.00	0.00
153	17.200	7.22	0.71	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.17	0.00	0.00	0.00	0.00
154	17.100	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.17	0.00	0.00	0.00	0.00
155	17.000	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.34	1.34	1.34	0.03	0.00	0.55	0.00	0.00	0.00	9.18	0.00	0.00	0.00	0.00
156	16.900	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.55	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
157	16.800	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.55	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00
158	16.700	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.55	0.00	0.00	0.00	9.20	0.00	0.00	0.00	0.00
159	16.600	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.55	0.00	0.00	0.00	9.21	0.00	0.00	0.00	0.00
160	16.500	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.55	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00
161	16.400	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.22	0.00	0.00	0.00	0.00
162	16.300	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.23	0.00	0.00	0.00	0.00
163	16.200	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.24	0.00	0.00	0.00	0.00
164	16.100	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.25	0.00	0.00	0.00	0.00
165	16.000	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.25	0.00	0.00	0.00	0.00
166	15.900	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.26	0.00	0.00	0.00	0.00
167	15.800	7.22	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.54	0.00	0.00	0.00	9.27	0.00	0.00	0.00	0.00
168	15.700	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.53	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
169	15.600	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.53	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00
170	15.500	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.53	0.00	0.00	0.00	9.29	0.00	0.00	0.00	0.00
171	15.400	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.53	0.00	0.00	0.00	9.30	0.00	0.00	0.00	0.00
172	15.300	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.53	0.00	0.00	0.00	9.31	0.00	0.00	0.00	0.00
173	15.200	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.52	0.00	0.00	0.00	9.31	0.00	0.00	0.00	0.00
174	15.100	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.52	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00
175	15.000	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.52	0.00	0.00	0.00	9.33	0.00	0.00	0.00	0.00
176	14.900	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.52	0.00	0.00	0.00	9.34	0.00	0.00	0.00	0.00
177	14.800	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.52	0.00	0.00	0.00	9.34	0.00	0.00	0.00	0.00
178	14.700	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.51	0.00	0.00	0.00	9.35	0.00	0.00	0.00	0.00
179	14.600	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.51	0.00	0.00	0.00	9.36	0.00	0.00	0.00	0.00
180	14.500	7.23	0.70	0.29	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33	0.03	0.00	0.51	0.00	0.00	0.00	9.36	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.56	0.16	0.00	0.00	0.00	0.00	0.00	0.60			0.02	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL				
132	19.300	32.80	0.00 0.00	0.00	6.99	14.29	0.00	14.29	0.00	2.16	0.10	0.00	2.26	0.00	100.10	0.00	0.	0.00	
133	19.200	32.79	0.00 0.00	0.00	7.31	15.10	0.00	15.10	0.00	2.17	0.10	0.00	2.27	0.00	100.20	0.00	0.	0.00	

134	19.100	32.79	0.00	0.00	0.00	7.59	15.88	0.00	15.88	0.00	2.18	0.10	0.00	2.28	0.00	100.31	0.00	0.	0.00
135	19.000	32.78	0.00	0.00	0.00	7.83	16.65	0.00	16.65	0.00	2.19	0.10	0.00	2.29	0.00	100.41	0.00	0.	0.00
136	18.900	32.78	0.00	0.00	0.00	8.04	17.39	0.00	17.39	0.00	2.20	0.10	0.00	2.30	0.00	100.51	0.00	0.	0.00
137	18.800	32.78	0.00	0.00	0.00	8.22	18.12	0.00	18.12	0.00	2.21	0.10	0.00	2.31	0.00	100.61	0.00	0.	0.00
138	18.700	32.77	0.00	0.00	0.00	8.37	18.82	0.00	18.82	0.00	2.22	0.10	0.00	2.32	0.00	100.71	0.00	0.	0.00
139	18.600	32.77	0.00	0.00	0.00	8.49	19.51	0.00	19.51	0.00	2.23	0.10	0.00	2.33	0.00	100.82	0.00	0.	0.00
140	18.500	32.76	0.00	0.00	0.00	8.59	20.18	0.00	20.18	0.00	2.24	0.10	0.00	2.34	0.00	100.92	0.00	0.	0.00
141	18.400	32.76	0.00	0.00	0.00	8.66	20.83	0.00	20.83	0.00	2.25	0.10	0.00	2.35	0.00	101.02	0.00	0.	0.00
142	18.300	32.76	0.00	0.00	0.00	8.72	21.46	0.00	21.46	0.00	2.26	0.10	0.00	2.36	0.00	101.12	0.00	0.	0.00
143	18.200	32.75	0.00	0.00	0.00	8.76	22.08	0.00	22.08	0.00	2.27	0.10	0.00	2.37	0.00	101.22	0.00	0.	0.00
144	18.100	32.75	0.00	0.00	0.00	8.78	22.67	0.00	22.67	0.00	2.28	0.10	0.00	2.38	0.00	101.33	0.00	0.	0.00
145	18.000	32.74	0.00	0.00	0.00	8.78	23.26	0.00	23.26	0.00	2.29	0.10	0.00	2.39	0.00	101.43	0.00	0.	0.00
146	17.900	32.74	0.00	0.00	0.00	8.78	23.82	0.00	23.82	0.00	2.30	0.10	0.00	2.40	0.00	101.53	0.00	0.	0.00
147	17.800	32.73	0.00	0.00	0.00	8.75	24.38	0.00	24.38	0.00	2.31	0.10	0.00	2.41	0.00	101.63	0.00	0.	0.00
148	17.700	32.73	0.00	0.00	0.00	8.72	24.91	0.00	24.91	0.00	2.32	0.10	0.00	2.42	0.00	101.73	0.00	0.	0.00
149	17.600	32.73	0.00	0.00	0.00	8.68	25.44	0.00	25.44	0.00	2.33	0.10	0.00	2.44	0.00	101.84	0.00	0.	0.00
150	17.500	32.72	0.00	0.00	0.00	8.62	25.95	0.00	25.95	0.00	2.34	0.10	0.00	2.45	0.00	101.94	0.00	0.	0.00
151	17.400	32.72	0.00	0.00	0.00	8.56	26.44	0.00	26.44	0.00	2.35	0.10	0.00	2.46	0.00	102.04	0.00	0.	0.00
152	17.300	32.71	0.00	0.00	0.00	8.49	26.92	0.00	26.92	0.00	2.36	0.10	0.00	2.47	0.00	102.14	0.00	0.	0.00
153	17.200	32.71	0.00	0.00	0.00	8.41	27.39	0.00	27.39	0.00	2.37	0.10	0.00	2.48	0.00	102.24	0.00	0.	0.00
154	17.100	32.71	0.00	0.00	0.00	8.33	27.85	0.00	27.85	0.00	2.38	0.10	0.00	2.49	0.00	102.35	0.00	0.	0.00
155	17.000	32.70	0.00	0.00	0.00	8.24	28.29	0.00	28.29	0.00	2.39	0.11	0.00	2.50	0.00	102.45	0.00	0.	0.00
156	16.900	32.70	0.00	0.00	0.00	8.15	28.73	0.00	28.73	0.00	2.40	0.11	0.00	2.51	0.00	102.55	0.00	0.	0.00
157	16.800	32.69	0.00	0.00	0.00	8.05	29.15	0.00	29.15	0.00	2.41	0.11	0.00	2.52	0.00	102.65	0.00	0.	0.00
158	16.700	32.69	0.00	0.00	0.00	7.95	29.56	0.00	29.56	0.00	2.42	0.11	0.00	2.53	0.00	102.76	0.00	0.	0.00
159	16.600	32.69	0.00	0.00	0.00	7.85	29.96	0.00	29.96	0.00	2.43	0.11	0.00	2.54	0.00	102.86	0.00	0.	0.00
160	16.500	32.68	0.00	0.00	0.00	7.74	30.34	0.00	30.34	0.00	2.44	0.11	0.00	2.55	0.00	102.96	0.00	0.	0.00
161	16.400	32.68	0.00	0.00	0.00	7.64	30.72	0.00	30.72	0.00	2.45	0.11	0.00	2.56	0.00	103.06	0.00	0.	0.00
162	16.300	32.67	0.00	0.00	0.00	7.53	31.09	0.00	31.09	0.00	2.46	0.11	0.00	2.57	0.00	103.16	0.00	0.	0.00
163	16.200	32.67	0.00	0.00	0.00	7.41	31.45	0.00	31.45	0.00	2.47	0.11	0.00	2.58	0.00	103.27	0.00	0.	0.00
164	16.100	32.67	0.00	0.00	0.00	7.30	31.80	0.00	31.80	0.00	2.48	0.11	0.00	2.59	0.00	103.37	0.00	0.	0.00
165	16.000	32.66	0.00	0.00	0.00	7.19	32.14	0.00	32.14	0.00	2.49	0.11	0.00	2.60	0.00	103.47	0.00	0.	0.00
166	15.900	32.66	0.00	0.00	0.00	7.07	32.47	0.00	32.47	0.00	2.50	0.11	0.00	2.61	0.00	103.57	0.00	0.	0.00
167	15.800	32.65	0.00	0.00	0.00	6.96	32.79	0.00	32.79	0.00	2.50	0.11	0.00	2.62	0.00	103.67	0.00	0.	0.00
168	15.700	32.65	0.00	0.00	0.00	6.85	33.11	0.00	33.11	0.00	2.51	0.11	0.00	2.62	0.00	103.78	0.00	0.	0.00
169	15.600	32.64	0.00	0.00	0.00	6.73	33.41	0.00	33.41	0.00	2.52	0.11	0.00	2.63	0.00	103.88	0.00	0.	0.00
170	15.500	32.64	0.00	0.00	0.00	6.62	33.71	0.00	33.71	0.00	2.53	0.11	0.00	2.64	0.00	103.98	0.00	0.	0.00
171	15.400	32.64	0.00	0.00	0.00	6.51	34.00	0.00	34.00	0.00	2.54	0.11	0.00	2.65	0.00	104.08	0.00	0.	0.00
172	15.300	32.63	0.00	0.00	0.00	6.39	34.28	0.00	34.28	0.00	2.55	0.11	0.00	2.66	0.00	104.18	0.00	0.	0.00
173	15.200	32.63	0.00	0.00	0.00	6.28	34.55	0.00	34.55	0.00	2.56	0.11	0.00	2.67	0.00	104.29	0.00	0.	0.00
174	15.100	32.62	0.00	0.00	0.00	6.17	34.82	0.00	34.82	0.00	2.57	0.11	0.00	2.68	0.00	104.39	0.00	0.	0.00
175	15.000	32.62	0.00	0.00	0.00	6.07	35.08	0.00	35.08	0.00	2.58	0.12	0.00	2.69	0.00	104.49	0.00	0.	0.00
176	14.900	32.62	0.00	0.00	0.00	5.96	35.33	0.00	35.33	0.00	2.59	0.12	0.00	2.70	0.00	104.59	0.00	0.	0.00
177	14.800	32.61	0.00	0.00	0.00	5.85	35.58	0.00	35.58	0.00	2.60	0.12	0.00	2.71	0.00	104.69	0.00	0.	0.00
178	14.700	32.61	0.00	0.00	0.00	5.75	35.81	0.00	35.81	0.00	2.61	0.12	0.00	2.72	0.00	104.80	0.00	0.	0.00
179	14.600	32.60	0.00	0.00	0.00	5.64	35.94	0.00	35.94	0.00	2.61	0.12	0.00	2.73	0.00	104.90	0.00	0.	0.00
180	14.500	32.60	0.00	0.00	0.00	5.48	35.45	0.00	35.45	0.00	2.61	0.12	0.00	2.73	0.00	105.00	0.00	0.	0.00

FINAL REPORT Grassy Lake LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 6 Lake Verret 2 TMDL Simulation for Lake Verret and Grassy Lake model
********** REACH INPUTS **********

ELEM NO.	TYPE	FLOW	TEMP	SALN	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NCM
			deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL					
181	UPR RCH	30.26918	32.60	0.00	0.00	0.00	5.48	35.45	0.00	35.45	0.00	2.61	0.12	0.00	0.00	105.00	0.00	0.00
208	WSTLD	0.00156	30.00	0.00	0.00	0.00	5.00	46.00	0.00	46.00	0.00	3.30	6.67	2.00	0.00	0.00	0.00	0.00
264	WSTLD	0.01153	30.00	0.00	0.00	0.00	5.00	27.20	0.00	27.20	0.00	2.00	6.48	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	PCT EFF	ADVCTV VELO	TRAVEL TIME	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	TIDAL PRISM	TIDAL VELO	DISPRSN	MEAN VELO
	km	km	m³/s	m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s	
181	14.50	14.40	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
182	14.40	14.30	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
183	14.30	14.20	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
184	14.20	14.10	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
185	14.10	14.00	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
186	14.00	13.90	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
187	13.90	13.80	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
188	13.80	13.70	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
189	13.70	13.60	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
190	13.60	13.50	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
191	13.50	13.40	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
192	13.40	13.30	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
193	13.30	13.20	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
194	13.20	13.10	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
195	13.10	13.00	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
196	13.00	12.90	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
197	12.90	12.80	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
198	12.80	12.70	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
199	12.70	12.60	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
200	12.60	12.50	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
201	12.50	12.40	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
202	12.40	12.30	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
203	12.30	12.20	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
204	12.20	12.10	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
205	12.10	12.00	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
206	12.00	11.90	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
207	11.90	11.80	30.26918	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
208	11.80	11.70	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
209	11.70	11.60	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
210	11.60	11.50	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
211	11.50	11.40	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
212	11.40	11.30	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
213	11.30	11.20	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
214	11.20	11.10	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
215	11.10	11.00	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
216	11.00	10.90	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
217	10.90	10.80	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
218	10.80	10.70	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
219	10.70	10.60	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
220	10.60	10.50	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
221	10.50	10.40	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003

222	10.40	10.30	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
223	10.30	10.20	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
224	10.20	10.10	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
225	10.10	10.00	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
226	10.00	9.90	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
227	9.90	9.80	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
228	9.80	9.70	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
229	9.70	9.60	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
230	9.60	9.50	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
231	9.50	9.40	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
232	9.40	9.30	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
233	9.30	9.20	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
234	9.20	9.10	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
235	9.10	9.00	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
236	9.00	8.90	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
237	8.90	8.80	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
238	8.80	8.70	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
239	8.70	8.60	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
240	8.60	8.50	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
241	8.50	8.40	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
242	8.40	8.30	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
243	8.30	8.20	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
244	8.20	8.10	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
245	8.10	8.00	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
246	8.00	7.90	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
247	7.90	7.80	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
248	7.80	7.70	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
249	7.70	7.60	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
250	7.60	7.50	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
251	7.50	7.40	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
252	7.40	7.30	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
253	7.30	7.20	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
254	7.20	7.10	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
255	7.10	7.00	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
256	7.00	6.90	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
257	6.90	6.80	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
258	6.80	6.70	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
259	6.70	6.60	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
260	6.60	6.50	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
261	6.50	6.40	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
262	6.40	6.30	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
263	6.30	6.20	30.27074	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
264	6.20	6.10	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
265	6.10	6.00	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
266	6.00	5.90	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
267	5.90	5.80	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
268	5.80	5.70	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
269	5.70	5.60	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
270	5.60	5.50	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003
271	5.50	5.40	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003

272	5.40	5.30	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
273	5.30	5.20	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
274	5.20	5.10	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
275	5.10	5.00	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
276	5.00	4.90	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
277	4.90	4.80	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
278	4.80	4.70	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
279	4.70	4.60	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
280	4.60	4.50	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
281	4.50	4.40	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
282	4.40	4.30	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
283	4.30	4.20	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
284	4.20	4.10	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
285	4.10	4.00	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
286	4.00	3.90	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
287	3.90	3.80	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
288	3.80	3.70	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
289	3.70	3.60	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
290	3.60	3.50	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
291	3.50	3.40	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
292	3.40	3.30	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
293	3.30	3.20	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
294	3.20	3.10	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
295	3.10	3.00	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
296	3.00	2.90	30.28227	33.2	0.00347	0.33	2.13	4092.00	871596.12	409200.00	8715.96	0.00	0.000	0.200	0.003									
TOT					38.65			**********	47467200.00															
AVG					0.0035		2.13	4092.00			8715.95													
CUM					47.74																			

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
		mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da	
181	14.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.50	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00	
182	14.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.50	0.00	0.00	0.00	9.28	0.00	0.00	0.00	0.00	
183	14.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.50	0.00	0.00	0.00	9.24	0.00	0.00	0.00	0.00	
184	14.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.50	0.00	0.00	0.00	9.19	0.00	0.00	0.00	0.00	
185	14.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.51	0.00	0.00	0.00	9.15	0.00	0.00	0.00	0.00	
186	13.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.51	0.00	0.00	0.00	9.11	0.00	0.00	0.00	0.00	
187	13.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.52	0.00	0.00	0.00	9.07	0.00	0.00	0.00	0.00	
188	13.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.52	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00	
189	13.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.32	3.32	3.32	0.03	0.00	0.53	0.00	0.00	0.00	8.98	0.00	0.00	0.00	0.00	
190	13.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.53	0.00	0.00	0.00	8.94	0.00	0.00	0.00	0.00	
191	13.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.90	0.00	0.00	0.00	0.00	
192	13.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.85	0.00	0.00	0.00	0.00	
193	13.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.81	0.00	0.00	0.00	0.00	
194	13.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.77	0.00	0.00	0.00	0.00	
195	13.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.73	0.00	0.00	0.00	0.00	
196	12.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.68	0.00	0.00	0.00	0.00	
197	12.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.64	0.00	0.00	0.00	0.00	
198	12.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.60	0.00	0.00	0.00	0.00	

199	12.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.55	0.00	0.00	0.00	0.00
200	12.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.51	0.00	0.00	0.00	0.00
201	12.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.47	0.00	0.00	0.00	0.00
202	12.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.43	0.00	0.00	0.00	0.00
203	12.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.38	0.00	0.00	0.00	0.00
204	12.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.34	0.00	0.00	0.00	0.00
205	12.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.30	0.00	0.00	0.00	0.00
206	11.900	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.00
207	11.800	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.21	0.00	0.00	0.00	0.00
208	11.700	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.17	0.00	0.00	0.00	0.00
209	11.600	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.13	0.00	0.00	0.00	0.00
210	11.500	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.09	0.00	0.00	0.00	0.00
211	11.400	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.04	0.00	0.00	0.00	0.00
212	11.300	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00
213	11.200	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.96	0.00	0.00	0.00	0.00
214	11.100	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00
215	11.000	7.23	0.44	0.29	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.87	0.00	0.00	0.00	0.00
216	10.900	7.23	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.83	0.00	0.00	0.00	0.00
217	10.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.79	0.00	0.00	0.00	0.00
218	10.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.75	0.00	0.00	0.00	0.00
219	10.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.70	0.00	0.00	0.00	0.00
220	10.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.66	0.00	0.00	0.00	0.00
221	10.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.62	0.00	0.00	0.00	0.00
222	10.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.58	0.00	0.00	0.00	0.00
223	10.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.53	0.00	0.00	0.00	0.00
224	10.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.49	0.00	0.00	0.00	0.00
225	10.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00
226	9.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.41	0.00	0.00	0.00	0.00
227	9.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.36	0.00	0.00	0.00	0.00
228	9.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.32	0.00	0.00	0.00	0.00
229	9.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.28	0.00	0.00	0.00	0.00
230	9.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.24	0.00	0.00	0.00	0.00
231	9.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.19	0.00	0.00	0.00	0.00
232	9.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.15	0.00	0.00	0.00	0.00
233	9.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.11	0.00	0.00	0.00	0.00
234	9.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.07	0.00	0.00	0.00	0.00
235	9.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	7.02	0.00	0.00	0.00	0.00
236	8.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.98	0.00	0.00	0.00	0.00
237	8.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.94	0.00	0.00	0.00	0.00
238	8.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.90	0.00	0.00	0.00	0.00
239	8.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.85	0.00	0.00	0.00	0.00
240	8.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.81	0.00	0.00	0.00	0.00
241	8.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.77	0.00	0.00	0.00	0.00
242	8.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.73	0.00	0.00	0.00	0.00
243	8.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.68	0.00	0.00	0.00	0.00
244	8.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.31	3.31	3.31	0.03	0.00	0.54	0.00	0.00	0.00	6.64	0.00	0.00	0.00	0.00
245	8.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.60	0.00	0.00	0.00	0.00
246	7.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00
247	7.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00
248	7.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00

249	7.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.43	0.00	0.00	0.00	0.00
250	7.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.39	0.00	0.00	0.00	0.00
251	7.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.34	0.00	0.00	0.00	0.00
252	7.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00
253	7.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00
254	7.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.22	0.00	0.00	0.00	0.00
255	7.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.17	0.00	0.00	0.00	0.00
256	6.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.13	0.00	0.00	0.00	0.00
257	6.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.09	0.00	0.00	0.00	0.00
258	6.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.05	0.00	0.00	0.00	0.00
259	6.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	6.01	0.00	0.00	0.00	0.00
260	6.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.96	0.00	0.00	0.00	0.00
261	6.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.92	0.00	0.00	0.00	0.00
262	6.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.88	0.00	0.00	0.00	0.00
263	6.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.84	0.00	0.00	0.00	0.00
264	6.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.79	0.00	0.00	0.00	0.00
265	6.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.75	0.00	0.00	0.00	0.00
266	5.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.71	0.00	0.00	0.00	0.00
267	5.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.67	0.00	0.00	0.00	0.00
268	5.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.62	0.00	0.00	0.00	0.00
269	5.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.58	0.00	0.00	0.00	0.00
270	5.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.54	0.00	0.00	0.00	0.00
271	5.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.50	0.00	0.00	0.00	0.00
272	5.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.45	0.00	0.00	0.00	0.00
273	5.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.41	0.00	0.00	0.00	0.00
274	5.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.37	0.00	0.00	0.00	0.00
275	5.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.33	0.00	0.00	0.00	0.00
276	4.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.28	0.00	0.00	0.00	0.00
277	4.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.00
278	4.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.20	0.00	0.00	0.00	0.00
279	4.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.16	0.00	0.00	0.00	0.00
280	4.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.00
281	4.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.00
282	4.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00
283	4.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	4.99	0.00	0.00	0.00	0.00
284	4.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.54	0.00	0.00	0.00	4.95	0.00	0.00	0.00	0.00
285	4.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.90	0.00	0.00	0.00	0.00
286	3.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.86	0.00	0.00	0.00	0.00
287	3.800	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.82	0.00	0.00	0.00	0.00
288	3.700	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.78	0.00	0.00	0.00	0.00
289	3.600	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.73	0.00	0.00	0.00	0.00
290	3.500	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.69	0.00	0.00	0.00	0.00
291	3.400	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.65	0.00	0.00	0.00	0.00
292	3.300	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.53	0.00	0.00	0.00	4.61	0.00	0.00	0.00	0.00
293	3.200	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00
294	3.100	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.52	0.00	0.00	0.00	0.00
295	3.000	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.48	0.00	0.00	0.00	0.00
296	2.900	7.24	0.44	0.28	0.00	0.00	0.00	0.00	0.00	3.30	3.30	3.30	0.03	0.00	0.52	0.00	0.00	0.00	4.44	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.35	0.16	0.00	0.00	0.00	0.00	0.00	1.50			0.02	0.00	0.20	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT		CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL				
181	14.400	32.60	0.00	0.00	0.00	5.17	33.24	0.00	33.24	0.00	2.59	0.12	0.00	2.71	0.00	104.53	0.00	0.	0.00	
182	14.300	32.60	0.00	0.00	0.00	5.05	31.47	0.00	31.47	0.00	2.57	0.12	0.00	2.69	0.00	104.05	0.00	0.	0.00	
183	14.200	32.60	0.00	0.00	0.00	5.06	29.86	0.00	29.86	0.00	2.55	0.12	0.00	2.67	0.00	103.58	0.00	0.	0.00	
184	14.100	32.60	0.00	0.00	0.00	5.17	28.37	0.00	28.37	0.00	2.53	0.12	0.00	2.65	0.00	103.10	0.00	0.	0.00	
185	14.000	32.60	0.00	0.00	0.00	5.35	27.01	0.00	27.01	0.00	2.51	0.12	0.00	2.63	0.00	102.63	0.00	0.	0.00	
186	13.900	32.59	0.00	0.00	0.00	5.59	25.77	0.00	25.77	0.00	2.49	0.12	0.00	2.62	0.00	102.16	0.00	0.	0.00	
187	13.800	32.59	0.00	0.00	0.00	5.88	24.62	0.00	24.62	0.00	2.47	0.12	0.00	2.60	0.00	101.68	0.00	0.	0.00	
188	13.700	32.59	0.00	0.00	0.00	6.20	23.58	0.00	23.58	0.00	2.45	0.12	0.00	2.58	0.00	101.21	0.00	0.	0.00	
189	13.600	32.59	0.00	0.00	0.00	6.54	22.62	0.00	22.62	0.00	2.43	0.12	0.00	2.56	0.00	100.73	0.00	0.	0.00	
190	13.500	32.59	0.00	0.00	0.00	6.89	21.74	0.00	21.74	0.00	2.41	0.12	0.00	2.54	0.00	100.26	0.00	0.	0.00	
191	13.400	32.59	0.00	0.00	0.00	7.25	20.93	0.00	20.93	0.00	2.40	0.12	0.00	2.52	0.00	99.78	0.00	0.	0.00	
192	13.300	32.59	0.00	0.00	0.00	7.61	20.19	0.00	20.19	0.00	2.38	0.12	0.00	2.50	0.00	99.31	0.00	0.	0.00	
193	13.200	32.59	0.00	0.00	0.00	7.97	19.51	0.00	19.51	0.00	2.36	0.12	0.00	2.48	0.00	98.84	0.00	0.	0.00	
194	13.100	32.59	0.00	0.00	0.00	8.32	18.89	0.00	18.89	0.00	2.34	0.12	0.00	2.46	0.00	98.36	0.00	0.	0.00	
195	13.000	32.59	0.00	0.00	0.00	8.66	18.32	0.00	18.32	0.00	2.32	0.12	0.00	2.44	0.00	97.89	0.00	0.	0.00	
196	12.900	32.59	0.00	0.00	0.00	8.99	17.80	0.00	17.80	0.00	2.30	0.12	0.00	2.42	0.00	97.41	0.00	0.	0.00	
197	12.800	32.59	0.00	0.00	0.00	9.30	17.32	0.00	17.32	0.00	2.29	0.11	0.00	2.40	0.00	96.94	0.00	0.	0.00	
198	12.700	32.58	0.00	0.00	0.00	9.60	16.88	0.00	16.88	0.00	2.27	0.11	0.00	2.38	0.00	96.47	0.00	0.	0.00	
199	12.600	32.58	0.00	0.00	0.00	9.88	16.47	0.00	16.47	0.00	2.25	0.11	0.00	2.36	0.00	95.99	0.00	0.	0.00	
200	12.500	32.58	0.00	0.00	0.00	10.14	16.11	0.00	16.11	0.00	2.23	0.11	0.00	2.35	0.00	95.52	0.00	0.	0.00	
201	12.400	32.58	0.00	0.00	0.00	10.38	15.77	0.00	15.77	0.00	2.22	0.11	0.00	2.33	0.00	95.04	0.00	0.	0.00	
202	12.300	32.58	0.00	0.00	0.00	10.61	15.46	0.00	15.46	0.00	2.20	0.11	0.00	2.31	0.00	94.57	0.00	0.	0.00	
203	12.200	32.58	0.00	0.00	0.00	10.82	15.17	0.00	15.17	0.00	2.18	0.11	0.00	2.29	0.00	94.09	0.00	0.	0.00	
204	12.100	32.58	0.00	0.00	0.00	11.02	14.91	0.00	14.91	0.00	2.17	0.11	0.00	2.27	0.00	93.62	0.00	0.	0.00	
205	12.000	32.58	0.00	0.00	0.00	11.19	14.67	0.00	14.67	0.00	2.15	0.11	0.00	2.26	0.00	93.15	0.00	0.	0.00	
206	11.900	32.58	0.00	0.00	0.00	11.35	14.45	0.00	14.45	0.00	2.13	0.11	0.00	2.24	0.00	92.67	0.00	0.	0.00	
207	11.800	32.58	0.00	0.00	0.00	11.50	14.25	0.00	14.25	0.00	2.12	0.11	0.00	2.22	0.00	92.20	0.00	0.	0.00	
208	11.700	32.58	0.00	0.00	0.00	11.63	14.07	0.00	14.07	0.00	2.10	0.10	0.00	2.20	0.00	91.72	0.00	0.	0.00	
209	11.600	32.58	0.00	0.00	0.00	11.75	13.90	0.00	13.90	0.00	2.08	0.10	0.00	2.19	0.00	91.25	0.00	0.	0.00	
210	11.500	32.57	0.00	0.00	0.00	11.85	13.75	0.00	13.75	0.00	2.07	0.10	0.00	2.17	0.00	90.78	0.00	0.	0.00	
211	11.400	32.57	0.00	0.00	0.00	11.94	13.60	0.00	13.60	0.00	2.05	0.10	0.00	2.15	0.00	90.30	0.00	0.	0.00	
212	11.300	32.57	0.00	0.00	0.00	12.02	13.47	0.00	13.47	0.00	2.04	0.10	0.00	2.14	0.00	89.83	0.00	0.	0.00	
213	11.200	32.57	0.00	0.00	0.00	12.08	13.36	0.00	13.36	0.00	2.02	0.10	0.00	2.12	0.00	89.35	0.00	0.	0.00	
214	11.100	32.57	0.00	0.00	0.00	12.14	13.25	0.00	13.25	0.00	2.01	0.10	0.00	2.11	0.00	88.88	0.00	0.	0.00	
215	11.000	32.57	0.00	0.00	0.00	12.18	13.15	0.00	13.15	0.00	1.99	0.10	0.00	2.09	0.00	88.41	0.00	0.	0.00	
216	10.900	32.57	0.00	0.00	0.00	12.22	13.05	0.00	13.05	0.00	1.98	0.10	0.00	2.07	0.00	87.93	0.00	0.	0.00	
217	10.800	32.57	0.00	0.00	0.00	12.24	12.97	0.00	12.97	0.00	1.96	0.10	0.00	2.06	0.00	87.46	0.00	0.	0.00	
218	10.700	32.57	0.00	0.00	0.00	12.26	12.89	0.00	12.89	0.00	1.95	0.10	0.00	2.04	0.00	86.98	0.00	0.	0.00	
219	10.600	32.57	0.00	0.00	0.00	12.27	12.82	0.00	12.82	0.00	1.93	0.10	0.00	2.03	0.00	86.51	0.00	0.	0.00	
220	10.500	32.57	0.00	0.00	0.00	12.27	12.76	0.00	12.76	0.00	1.92	0.10	0.00	2.01	0.00	86.03	0.00	0.	0.00	
221	10.400	32.56	0.00	0.00	0.00	12.27	12.70	0.00	12.70	0.00	1.90	0.09	0.00	2.00	0.00	85.56	0.00	0.	0.00	
222	10.300	32.56	0.00	0.00	0.00	12.26	12.65	0.00	12.65	0.00	1.89	0.09	0.00	1.98	0.00	85.09	0.00	0.	0.00	
223	10.200	32.56	0.00	0.00	0.00	12.24	12.60	0.00	12.60	0.00	1.87	0.09	0.00	1.97	0.00	84.61	0.00	0.	0.00	
224	10.100	32.56	0.00	0.00	0.00	12.22	12.55	0.00	12.55	0.00	1.86	0.09	0.00	1.95	0.00	84.14	0.00	0.	0.00	
225	10.000	32.56	0.00	0.00	0.00	12.19	12.51	0.00	12.51	0.00	1.84	0.09	0.00	1.94	0.00	83.66	0.00	0.	0.00	
226	9.900	32.56	0.00	0.00	0.00	12.16	12.47	0.00	12.47	0.00	1.83	0.09	0.00	1.92	0.00	83.19	0.00	0.	0.00	
227	9.800	32.56	0.00	0.00	0.00	12.12	12.43	0.00	12.43	0.00	1.82	0.09	0.00	1.91	0.00	82.72	0.00	0.	0.00	

228	9.700	32.56	0.00	0.00	0.00	12.08	12.40	0.00	12.40	0.00	1.80	0.09	0.00	1.89	0.00	82.24	0.00	0.	0.00
229	9.600	32.56	0.00	0.00	0.00	12.04	12.37	0.00	12.37	0.00	1.79	0.09	0.00	1.88	0.00	81.77	0.00	0.	0.00
230	9.500	32.56	0.00	0.00	0.00	11.99	12.35	0.00	12.35	0.00	1.78	0.09	0.00	1.86	0.00	81.29	0.00	0.	0.00
231	9.400	32.56	0.00	0.00	0.00	11.93	12.32	0.00	12.32	0.00	1.76	0.09	0.00	1.85	0.00	80.82	0.00	0.	0.00
232	9.300	32.56	0.00	0.00	0.00	11.88	12.30	0.00	12.30	0.00	1.75	0.09	0.00	1.84	0.00	80.34	0.00	0.	0.00
233	9.200	32.55	0.00	0.00	0.00	11.82	12.28	0.00	12.28	0.00	1.74	0.09	0.00	1.82	0.00	79.87	0.00	0.	0.00
234	9.100	32.55	0.00	0.00	0.00	11.76	12.26	0.00	12.26	0.00	1.72	0.09	0.00	1.81	0.00	79.40	0.00	0.	0.00
235	9.000	32.55	0.00	0.00	0.00	11.70	12.24	0.00	12.24	0.00	1.71	0.08	0.00	1.80	0.00	78.92	0.00	0.	0.00
236	8.900	32.55	0.00	0.00	0.00	11.63	12.23	0.00	12.23	0.00	1.70	0.08	0.00	1.78	0.00	78.45	0.00	0.	0.00
237	8.800	32.55	0.00	0.00	0.00	11.56	12.21	0.00	12.21	0.00	1.68	0.08	0.00	1.77	0.00	77.97	0.00	0.	0.00
238	8.700	32.55	0.00	0.00	0.00	11.49	12.20	0.00	12.20	0.00	1.67	0.08	0.00	1.76	0.00	77.50	0.00	0.	0.00
239	8.600	32.55	0.00	0.00	0.00	11.42	12.19	0.00	12.19	0.00	1.66	0.08	0.00	1.74	0.00	77.03	0.00	0.	0.00
240	8.500	32.55	0.00	0.00	0.00	11.35	12.18	0.00	12.18	0.00	1.65	0.08	0.00	1.73	0.00	76.55	0.00	0.	0.00
241	8.400	32.55	0.00	0.00	0.00	11.27	12.17	0.00	12.17	0.00	1.64	0.08	0.00	1.72	0.00	76.08	0.00	0.	0.00
242	8.300	32.55	0.00	0.00	0.00	11.20	12.16	0.00	12.16	0.00	1.62	0.08	0.00	1.70	0.00	75.60	0.00	0.	0.00
243	8.200	32.55	0.00	0.00	0.00	11.12	12.15	0.00	12.15	0.00	1.61	0.08	0.00	1.69	0.00	75.13	0.00	0.	0.00
244	8.100	32.54	0.00	0.00	0.00	11.04	12.14	0.00	12.14	0.00	1.60	0.08	0.00	1.68	0.00	74.66	0.00	0.	0.00
245	8.000	32.54	0.00	0.00	0.00	10.96	12.13	0.00	12.13	0.00	1.59	0.08	0.00	1.67	0.00	74.18	0.00	0.	0.00
246	7.900	32.54	0.00	0.00	0.00	10.88	12.13	0.00	12.13	0.00	1.58	0.08	0.00	1.65	0.00	73.71	0.00	0.	0.00
247	7.800	32.54	0.00	0.00	0.00	10.80	12.12	0.00	12.12	0.00	1.56	0.08	0.00	1.64	0.00	73.23	0.00	0.	0.00
248	7.700	32.54	0.00	0.00	0.00	10.72	12.12	0.00	12.12	0.00	1.55	0.08	0.00	1.63	0.00	72.76	0.00	0.	0.00
249	7.600	32.54	0.00	0.00	0.00	10.63	12.11	0.00	12.11	0.00	1.54	0.08	0.00	1.62	0.00	72.28	0.00	0.	0.00
250	7.500	32.54	0.00	0.00	0.00	10.55	12.11	0.00	12.11	0.00	1.53	0.08	0.00	1.61	0.00	71.81	0.00	0.	0.00
251	7.400	32.54	0.00	0.00	0.00	10.46	12.10	0.00	12.10	0.00	1.52	0.08	0.00	1.59	0.00	71.34	0.00	0.	0.00
252	7.300	32.54	0.00	0.00	0.00	10.38	12.10	0.00	12.10	0.00	1.51	0.07	0.00	1.58	0.00	70.86	0.00	0.	0.00
253	7.200	32.54	0.00	0.00	0.00	10.29	12.10	0.00	12.10	0.00	1.50	0.07	0.00	1.57	0.00	70.39	0.00	0.	0.00
254	7.100	32.54	0.00	0.00	0.00	10.21	12.09	0.00	12.09	0.00	1.48	0.07	0.00	1.56	0.00	69.91	0.00	0.	0.00
255	7.000	32.54	0.00	0.00	0.00	10.12	12.09	0.00	12.09	0.00	1.47	0.07	0.00	1.55	0.00	69.44	0.00	0.	0.00
256	6.900	32.53	0.00	0.00	0.00	10.03	12.09	0.00	12.09	0.00	1.46	0.07	0.00	1.54	0.00	68.97	0.00	0.	0.00
257	6.800	32.53	0.00	0.00	0.00	9.94	12.09	0.00	12.09	0.00	1.45	0.07	0.00	1.52	0.00	68.49	0.00	0.	0.00
258	6.700	32.53	0.00	0.00	0.00	9.85	12.08	0.00	12.08	0.00	1.44	0.07	0.00	1.51	0.00	68.02	0.00	0.	0.00
259	6.600	32.53	0.00	0.00	0.00	9.77	12.08	0.00	12.08	0.00	1.43	0.07	0.00	1.50	0.00	67.54	0.00	0.	0.00
260	6.500	32.53	0.00	0.00	0.00	9.68	12.08	0.00	12.08	0.00	1.42	0.07	0.00	1.49	0.00	67.07	0.00	0.	0.00
261	6.400	32.53	0.00	0.00	0.00	9.59	12.08	0.00	12.08	0.00	1.41	0.07	0.00	1.48	0.00	66.59	0.00	0.	0.00
262	6.300	32.53	0.00	0.00	0.00	9.50	12.08	0.00	12.08	0.00	1.40	0.07	0.00	1.47	0.00	66.12	0.00	0.	0.00
263	6.200	32.53	0.00	0.00	0.00	9.41	12.08	0.00	12.08	0.00	1.39	0.07	0.00	1.46	0.00	65.65	0.00	0.	0.00
264	6.100	32.53	0.00	0.00	0.00	9.31	12.08	0.00	12.08	0.00	1.38	0.07	0.00	1.45	0.00	65.17	0.00	0.	0.00
265	6.000	32.53	0.00	0.00	0.00	9.22	12.08	0.00	12.08	0.00	1.37	0.07	0.00	1.44	0.00	64.70	0.00	0.	0.00
266	5.900	32.53	0.00	0.00	0.00	9.13	12.08	0.00	12.08	0.00	1.36	0.07	0.00	1.43	0.00	64.22	0.00	0.	0.00
267	5.800	32.53	0.00	0.00	0.00	9.04	12.08	0.00	12.08	0.00	1.35	0.07	0.00	1.42	0.00	63.75	0.00	0.	0.00
268	5.700	32.52	0.00	0.00	0.00	8.95	12.08	0.00	12.08	0.00	1.34	0.07	0.00	1.41	0.00	63.28	0.00	0.	0.00
269	5.600	32.52	0.00	0.00	0.00	8.86	12.08	0.00	12.08	0.00	1.33	0.07	0.00	1.40	0.00	62.80	0.00	0.	0.00
270	5.500	32.52	0.00	0.00	0.00	8.77	12.08	0.00	12.08	0.00	1.32	0.07	0.00	1.39	0.00	62.33	0.00	0.	0.00
271	5.400	32.52	0.00	0.00	0.00	8.68	12.08	0.00	12.08	0.00	1.31	0.07	0.00	1.38	0.00	61.85	0.00	0.	0.00
272	5.300	32.52	0.00	0.00	0.00	8.58	12.07	0.00	12.07	0.00	1.30	0.07	0.00	1.37	0.00	61.38	0.00	0.	0.00
273	5.200	32.52	0.00	0.00	0.00	8.49	12.07	0.00	12.07	0.00	1.29	0.06	0.00	1.36	0.00	60.91	0.00	0.	0.00
274	5.100	32.52	0.00	0.00	0.00	8.40	12.07	0.00	12.07	0.00	1.28	0.06	0.00	1.35	0.00	60.43	0.00	0.	0.00
275	5.000	32.52	0.00	0.00	0.00	8.31	12.07	0.00	12.07	0.00	1.27	0.06	0.00	1.34	0.00	59.96	0.00	0.	0.00
276	4.900	32.52	0.00	0.00	0.00	8.22	12.07	0.00	12.07	0.00	1.27	0.06	0.00	1.33	0.00	59.48	0.00	0.	0.00
277	4.800	32.52	0.00	0.00	0.00	8.13	12.07	0.00	12.07	0.00	1.26	0.06	0.00	1.32	0.00	59.01	0.00	0.	0.00

278	4.700	32.52	0.00	0.00	0.00	8.03	12.07	0.00	12.07	0.00	1.25	0.06	0.00	1.31	0.00	58.53	0.00	0.	0.00
279	4.600	32.51	0.00	0.00	0.00	7.94	12.07	0.00	12.07	0.00	1.24	0.06	0.00	1.30	0.00	58.06	0.00	0.	0.00
280	4.500	32.51	0.00	0.00	0.00	7.85	12.07	0.00	12.07	0.00	1.23	0.06	0.00	1.29	0.00	57.59	0.00	0.	0.00
281	4.400	32.51	0.00	0.00	0.00	7.76	12.07	0.00	12.07	0.00	1.22	0.06	0.00	1.28	0.00	57.11	0.00	0.	0.00
282	4.300	32.51	0.00	0.00	0.00	7.67	12.07	0.00	12.07	0.00	1.21	0.06	0.00	1.27	0.00	56.64	0.00	0.	0.00
283	4.200	32.51	0.00	0.00	0.00	7.57	12.07	0.00	12.07	0.00	1.20	0.06	0.00	1.26	0.00	56.16	0.00	0.	0.00
284	4.100	32.51	0.00	0.00	0.00	7.48	12.07	0.00	12.07	0.00	1.20	0.06	0.00	1.25	0.00	55.69	0.00	0.	0.00
285	4.000	32.51	0.00	0.00	0.00	7.39	12.07	0.00	12.07	0.00	1.19	0.06	0.00	1.25	0.00	55.22	0.00	0.	0.00
286	3.900	32.51	0.00	0.00	0.00	7.30	12.07	0.00	12.07	0.00	1.18	0.06	0.00	1.24	0.00	54.74	0.00	0.	0.00
287	3.800	32.51	0.00	0.00	0.00	7.20	12.07	0.00	12.07	0.00	1.17	0.06	0.00	1.23	0.00	54.27	0.00	0.	0.00
288	3.700	32.51	0.00	0.00	0.00	7.11	12.07	0.00	12.07	0.00	1.16	0.06	0.00	1.22	0.00	53.79	0.00	0.	0.00
289	3.600	32.51	0.00	0.00	0.00	7.02	12.07	0.00	12.07	0.00	1.15	0.06	0.00	1.21	0.00	53.32	0.00	0.	0.00
290	3.500	32.51	0.00	0.00	0.00	6.93	12.08	0.00	12.08	0.00	1.15	0.06	0.00	1.20	0.00	52.84	0.00	0.	0.00
291	3.400	32.50	0.00	0.00	0.00	6.83	12.08	0.00	12.08	0.00	1.14	0.06	0.00	1.19	0.00	52.37	0.00	0.	0.00
292	3.300	32.50	0.00	0.00	0.00	6.74	12.08	0.00	12.08	0.00	1.13	0.06	0.00	1.19	0.00	51.90	0.00	0.	0.00
293	3.200	32.50	0.00	0.00	0.00	6.65	12.07	0.00	12.07	0.00	1.12	0.06	0.00	1.18	0.00	51.42	0.00	0.	0.00
294	3.100	32.50	0.00	0.00	0.00	6.56	12.07	0.00	12.07	0.00	1.11	0.06	0.00	1.17	0.00	50.95	0.00	0.	0.00
295	3.000	32.50	0.00	0.00	0.00	6.48	12.06	0.00	12.06	0.00	1.11	0.06	0.00	1.16	0.00	50.47	0.00	0.	0.00
296	2.900	32.50	0.00	0.00	0.00	6.42	12.02	0.00	12.02	0.00	1.10	0.06	0.00	1.16	0.00	50.00	0.00	0.	0.00

FINAL REPORT Grassy Lake LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
REACH NO. 7 Lake Verret 3 TMDL Simulation for Lake Verret and Grassy Lake model

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

ELEM NO.	TYPE	FLOW	TEMP	SALN	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NCM
		deg C	ppt		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL			
297	UPR RCH	30.28227	32.50	0.00	0.00	0.00	6.42	12.02	0.00	12.02	0.00	1.10	0.06	0.00	0.00	50.00	0.00	0.00
319	WSTLD	0.00010	30.00	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	7.50	15.00	2.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	PCT EFF	ADVCTV VELO	TRAVEL TIME	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	PRISM	TIDAL VELO	TIDAL VELO	DISPRSN	MEAN
	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s	
297	2.90	2.80	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
298	2.80	2.70	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
299	2.70	2.60	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
300	2.60	2.50	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
301	2.50	2.40	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
302	2.40	2.30	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
303	2.30	2.20	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
304	2.20	2.10	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
305	2.10	2.00	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
306	2.00	1.90	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
307	1.90	1.80	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
308	1.80	1.70	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
309	1.70	1.60	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
310	1.60	1.50	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
311	1.50	1.40	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
312	1.40	1.30	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
313	1.30	1.20	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
314	1.20	1.10	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
315	1.10	1.00	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	
316	1.00	0.90	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020	

317	0.90	0.80	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020			
318	0.80	0.70	30.28227	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020			
319	0.70	0.60	30.28237	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020			
320	0.60	0.50	30.28237	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020			
321	0.50	0.40	30.28237	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020			
322	0.40	0.30	30.28237	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020			
323	0.30	0.20	30.28237	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020			
324	0.20	0.10	30.28237	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020			
325	0.10	0.00	30.28237	33.2	0.02025	0.06	1.95	767.00	149565.00	76700.00	1495.65	0.00	0.000	0.100	0.020			
TOT						1.66			4337385.00	2224300.00								
AVG					0.0202		1.95	767.00			1495.65							
CUM						49.40												

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	ABOD#1 DECAY	BOD#2 DECAY	BOD#2 SETT	ABOD#2 DECAY	BKGD SOD	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	*	1/da	*	**	**	1/da	1/da	1/da
297	2.800	7.25	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88	0.03	0.00	0.52	0.00	0.00	0.00	4.28	0.00	0.00	0.00	0.00
298	2.700	7.26	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.87	0.87	0.87	0.03	0.00	0.52	0.00	0.00	0.00	4.12	0.00	0.00	0.00	0.00
299	2.600	7.26	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.87	0.87	0.87	0.03	0.00	0.51	0.00	0.00	0.00	3.97	0.00	0.00	0.00	0.00
300	2.500	7.27	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.87	0.87	0.87	0.03	0.00	0.51	0.00	0.00	0.00	3.81	0.00	0.00	0.00	0.00
301	2.400	7.28	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.51	0.00	0.00	0.00	3.65	0.00	0.00	0.00	0.00
302	2.300	7.29	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.51	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00
303	2.200	7.29	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.86	0.86	0.86	0.03	0.00	0.50	0.00	0.00	0.00	3.35	0.00	0.00	0.00	0.00
304	2.100	7.30	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.50	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00
305	2.000	7.31	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.50	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00
306	1.900	7.32	0.48	0.35	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.03	0.00	0.49	0.00	0.00	0.00	2.89	0.00	0.00	0.00	0.00
307	1.800	7.32	0.48	0.34	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.03	0.00	0.49	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.00
308	1.700	7.33	0.48	0.34	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.03	0.00	0.49	0.00	0.00	0.00	2.59	0.00	0.00	0.00	0.00
309	1.600	7.34	0.48	0.34	0.00	0.00	0.00	0.00	0.00	0.84	0.84	0.84	0.03	0.00	0.49	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00
310	1.500	7.34	0.48	0.34	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.03	0.00	0.48	0.00	0.00	0.00	2.29	0.00	0.00	0.00	0.00
311	1.400	7.35	0.48	0.34	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.03	0.00	0.48	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00
312	1.300	7.36	0.48	0.34	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.03	0.00	0.48	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
313	1.200	7.37	0.47	0.34	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.03	0.00	0.47	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00
314	1.100	7.37	0.47	0.34	0.00	0.00	0.00	0.00	0.00	0.82	0.82	0.82	0.03	0.00	0.47	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00
315	1.000	7.38	0.47	0.34	0.00	0.00	0.00	0.00	0.00	0.82	0.82	0.82	0.03	0.00	0.47	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00
316	0.900	7.39	0.47	0.34	0.00	0.00	0.00	0.00	0.00	0.82	0.82	0.82	0.03	0.00	0.46	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00
317	0.800	7.40	0.47	0.34	0.00	0.00	0.00	0.00	0.00	0.81	0.81	0.81	0.03	0.00	0.46	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00
318	0.700	7.40	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.81	0.81	0.81	0.02	0.00	0.46	0.00	0.00	0.00	1.14	0.00	0.00	0.00	0.00
319	0.600	7.41	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.81	0.81	0.81	0.02	0.00	0.45	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
320	0.500	7.42	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.80	0.02	0.00	0.45	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00
321	0.400	7.43	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.80	0.02	0.00	0.45	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
322	0.300	7.43	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.80	0.02	0.00	0.44	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
323	0.200	7.44	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.80	0.80	0.80	0.02	0.00	0.44	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
324	0.100	7.45	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.02	0.00	0.44	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
325	0.000	7.46	0.47	0.33	0.00	0.00	0.00	0.00	0.00	0.79	0.79	0.79	0.02	0.00	0.43	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.38	0.20	0.00	0.00	0.00	0.00	0.00	0.40			0.02	0.00	0.20	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

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

ELEM	ENDING	TEMP	SALN	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM

NO.	DIST	DEG C	PPT			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	
297	2.800	32.44	0.00	0.00	0.00	6.41	11.83	0.00	11.83	0.00	1.10	0.06	0.00	1.16	0.00	48.34	0.00	0.	0.00
298	2.700	32.38	0.00	0.00	0.00	6.41	11.60	0.00	11.60	0.00	1.10	0.06	0.00	1.16	0.00	46.69	0.00	0.	0.00
299	2.600	32.32	0.00	0.00	0.00	6.40	11.37	0.00	11.37	0.00	1.10	0.06	0.00	1.15	0.00	45.03	0.00	0.	0.00
300	2.500	32.27	0.00	0.00	0.00	6.38	11.15	0.00	11.15	0.00	1.10	0.06	0.00	1.15	0.00	43.38	0.00	0.	0.00
301	2.400	32.21	0.00	0.00	0.00	6.36	10.93	0.00	10.93	0.00	1.09	0.06	0.00	1.15	0.00	41.72	0.00	0.	0.00
302	2.300	32.15	0.00	0.00	0.00	6.34	10.71	0.00	10.71	0.00	1.09	0.06	0.00	1.15	0.00	40.07	0.00	0.	0.00
303	2.200	32.09	0.00	0.00	0.00	6.32	10.51	0.00	10.51	0.00	1.09	0.06	0.00	1.15	0.00	38.41	0.00	0.	0.00
304	2.100	32.03	0.00	0.00	0.00	6.29	10.30	0.00	10.30	0.00	1.09	0.06	0.00	1.15	0.00	36.76	0.00	0.	0.00
305	2.000	31.97	0.00	0.00	0.00	6.26	10.10	0.00	10.10	0.00	1.09	0.06	0.00	1.14	0.00	35.10	0.00	0.	0.00
306	1.900	31.91	0.00	0.00	0.00	6.23	9.91	0.00	9.91	0.00	1.09	0.06	0.00	1.14	0.00	33.45	0.00	0.	0.00
307	1.800	31.86	0.00	0.00	0.00	6.20	9.71	0.00	9.71	0.00	1.09	0.06	0.00	1.14	0.00	31.79	0.00	0.	0.00
308	1.700	31.80	0.00	0.00	0.00	6.16	9.53	0.00	9.53	0.00	1.08	0.06	0.00	1.14	0.00	30.14	0.00	0.	0.00
309	1.600	31.74	0.00	0.00	0.00	6.12	9.34	0.00	9.34	0.00	1.08	0.06	0.00	1.14	0.00	28.48	0.00	0.	0.00
310	1.500	31.68	0.00	0.00	0.00	6.07	9.17	0.00	9.17	0.00	1.08	0.06	0.00	1.14	0.00	26.83	0.00	0.	0.00
311	1.400	31.62	0.00	0.00	0.00	6.02	8.99	0.00	8.99	0.00	1.08	0.06	0.00	1.13	0.00	25.17	0.00	0.	0.00
312	1.300	31.56	0.00	0.00	0.00	5.97	8.82	0.00	8.82	0.00	1.08	0.06	0.00	1.13	0.00	23.52	0.00	0.	0.00
313	1.200	31.50	0.00	0.00	0.00	5.92	8.65	0.00	8.65	0.00	1.08	0.06	0.00	1.13	0.00	21.86	0.00	0.	0.00
314	1.100	31.44	0.00	0.00	0.00	5.86	8.49	0.00	8.49	0.00	1.07	0.06	0.00	1.13	0.00	20.21	0.00	0.	0.00
315	1.000	31.39	0.00	0.00	0.00	5.80	8.33	0.00	8.33	0.00	1.07	0.06	0.00	1.13	0.00	18.55	0.00	0.	0.00
316	0.900	31.33	0.00	0.00	0.00	5.74	8.17	0.00	8.17	0.00	1.07	0.06	0.00	1.13	0.00	16.90	0.00	0.	0.00
317	0.800	31.27	0.00	0.00	0.00	5.68	8.02	0.00	8.02	0.00	1.07	0.06	0.00	1.13	0.00	15.24	0.00	0.	0.00
318	0.700	31.21	0.00	0.00	0.00	5.61	7.87	0.00	7.87	0.00	1.07	0.06	0.00	1.12	0.00	13.59	0.00	0.	0.00
319	0.600	31.15	0.00	0.00	0.00	5.54	7.72	0.00	7.72	0.00	1.07	0.06	0.00	1.12	0.00	11.93	0.00	0.	0.00
320	0.500	31.09	0.00	0.00	0.00	5.47	7.58	0.00	7.58	0.00	1.07	0.06	0.00	1.12	0.00	10.28	0.00	0.	0.00
321	0.400	31.03	0.00	0.00	0.00	5.39	7.43	0.00	7.43	0.00	1.06	0.06	0.00	1.12	0.00	8.62	0.00	0.	0.00
322	0.300	30.98	0.00	0.00	0.00	5.31	7.30	0.00	7.30	0.00	1.06	0.06	0.00	1.12	0.00	6.97	0.00	0.	0.00
323	0.200	30.92	0.00	0.00	0.00	5.23	7.16	0.00	7.16	0.00	1.06	0.06	0.00	1.12	0.00	5.31	0.00	0.	0.00
324	0.100	30.86	0.00	0.00	0.00	5.15	7.01	0.00	7.01	0.00	1.05	0.06	0.00	1.11	0.00	3.66	0.00	0.	0.00
325	0.000	30.80	0.00	0.00	0.00	5.02	6.54	0.00	6.54	0.00	0.96	0.06	0.00	1.02	0.00	2.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

Grassy Lake TMDL Simulation for Lake Verret and Grassy Lake model

TRAVEL TIME = 49.40 DAYS
MAXIMUM EFFLUENT = 33.18 PERCENT
FLOW = 17.30000 TO 30.28237 m³/s
DISPERSION = 0.1000 TO 0.5000 m²/s
VELOCITY = 0.00347 TO 0.05298 m/s
DEPTH = 1.01 TO 5.24 m
WIDTH = 87.00 TO ****** m
BOD DECAY = 0.28 TO 0.40 per day
NH3 DECAY = 0.43 TO 0.59 per day
SOD = 0.79 TO 3.32 g/m²/d
NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 0.17 TO 0.95 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day
TEMPERATURE = 30.80 TO 33.90 deg C
DISSOLVED OXYGEN = 5.02 TO 12.27 mg/L

FINAL REPORT Fourmile Bayou Oxbow LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)

REACH NO. 3 Fourmile Bayou Oxbow TMDL Simulation for Lake Verret and Grassy Lake model

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

ELEM NO.	TYPE	FLOW	TEMP	SALN	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NCM
		deg C	ppt		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		µg/L	#/100mL	
56	HDWTR	2.93333	30.00	0.00	0.00	0.00	6.80	25.50	0.00	25.50	0.00	1.70	0.10	0.04	0.00	95.00	0.00	0.00

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

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	PCT EFF	ADVCTV VELO	TRAVEL TIME	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	TIDAL PRISM	TIDAL VELO	DISPRSN	MEAN VELO
	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
56	4.20	4.10	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
57	4.10	4.00	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
58	4.00	3.90	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
59	3.90	3.80	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
60	3.80	3.70	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
61	3.70	3.60	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
62	3.60	3.50	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
63	3.50	3.40	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
64	3.40	3.30	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
65	3.30	3.20	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
66	3.20	3.10	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
67	3.10	3.00	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
68	3.00	2.90	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
69	2.90	2.80	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
70	2.80	2.70	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
71	2.70	2.60	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
72	2.60	2.50	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
73	2.50	2.40	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
74	2.40	2.30	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
75	2.30	2.20	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
76	2.20	2.10	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
77	2.10	2.00	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
78	2.00	1.90	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
79	1.90	1.80	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
80	1.80	1.70	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
81	1.70	1.60	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
82	1.60	1.50	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
83	1.50	1.40	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
84	1.40	1.30	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
85	1.30	1.20	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
86	1.20	1.10	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
87	1.10	1.00	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
88	1.00	0.90	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
89	0.90	0.80	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
90	0.80	0.70	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
91	0.70	0.60	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
92	0.60	0.50	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
93	0.50	0.40	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
94	0.40	0.30	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
95	0.30	0.20	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013
96	0.20	0.10	2.93333	0.0	0.01349	0.09	2.50	87.00	21750.00	8700.00	217.50	0.00	0.000	0.400	0.013

97	0.10	0.00	2.93333	0.0	0.01349		0.09	2.50	87.00	21750.00		8700.00	217.50		0.00	0.000		0.400	0.013												
TOT					3.60					913500.00	365400.00																				
AVG				0.0135			2.50	87.00					217.50																		
CUM					3.60																										

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI 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	1/da	1/da		
56	4.100	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	1.68	1.68	1.68	0.03	0.00	0.58	0.00	0.00	0.00	8.84	0.00	0.00	0.00	0.00
57	4.000	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	8.68	0.00	0.00	0.00	0.00
58	3.900	7.08	0.36	0.40	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	8.53	0.00	0.00	0.00	0.00
59	3.800	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.58	0.00	0.00	0.00	8.37	0.00	0.00	0.00	0.00
60	3.700	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67	0.03	0.00	0.57	0.00	0.00	0.00	8.22	0.00	0.00	0.00	0.00
61	3.600	7.09	0.36	0.40	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.57	0.00	0.00	0.00	8.06	0.00	0.00	0.00	0.00
62	3.500	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.57	0.00	0.00	0.00	7.91	0.00	0.00	0.00	0.00
63	3.400	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.57	0.00	0.00	0.00	7.75	0.00	0.00	0.00	0.00
64	3.300	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.66	1.66	1.66	0.03	0.00	0.57	0.00	0.00	0.00	7.60	0.00	0.00	0.00	0.00
65	3.200	7.10	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.56	0.00	0.00	0.00	7.45	0.00	0.00	0.00	0.00
66	3.100	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.56	0.00	0.00	0.00	7.29	0.00	0.00	0.00	0.00
67	3.000	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.56	0.00	0.00	0.00	7.14	0.00	0.00	0.00	0.00
68	2.900	7.11	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.65	1.65	1.65	0.03	0.00	0.56	0.00	0.00	0.00	6.99	0.00	0.00	0.00	0.00
69	2.800	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.56	0.00	0.00	0.00	6.84	0.00	0.00	0.00	0.00
70	2.700	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.56	0.00	0.00	0.00	6.69	0.00	0.00	0.00	0.00
71	2.600	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.55	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.00
72	2.500	7.12	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.55	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00
73	2.400	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.64	1.64	1.64	0.03	0.00	0.55	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00
74	2.300	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.55	0.00	0.00	0.00	6.08	0.00	0.00	0.00	0.00
75	2.200	7.13	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.55	0.00	0.00	0.00	5.93	0.00	0.00	0.00	0.00
76	2.100	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.55	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.00
77	2.000	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.63	1.63	1.63	0.03	0.00	0.55	0.00	0.00	0.00	5.63	0.00	0.00	0.00	0.00
78	1.900	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.55	0.00	0.00	0.00	5.48	0.00	0.00	0.00	0.00
79	1.800	7.14	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.55	0.00	0.00	0.00	5.34	0.00	0.00	0.00	0.00
80	1.700	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.54	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.00
81	1.600	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.62	1.62	1.62	0.03	0.00	0.54	0.00	0.00	0.00	5.04	0.00	0.00	0.00	0.00
82	1.500	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.54	0.00	0.00	0.00	4.89	0.00	0.00	0.00	0.00
83	1.400	7.15	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.54	0.00	0.00	0.00	4.74	0.00	0.00	0.00	0.00
84	1.300	7.16	0.36	0.39	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.54	0.00	0.00	0.00	4.60	0.00	0.00	0.00	0.00
85	1.200	7.16	0.36	0.38	0.00	0.00	0.00	0.00	0.00	1.61	1.61	1.61	0.03	0.00	0.54	0.00	0.00	0.00	4.45	0.00	0.00	0.00	0.00
86	1.100	7.16	0.36	0.38	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.54	0.00	0.00	0.00	4.30	0.00	0.00	0.00	0.00
87	1.000	7.17	0.36	0.38	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.53	0.00	0.00	0.00	4.16	0.00	0.00	0.00	0.00
88	0.900	7.17	0.36	0.38	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.53	0.00	0.00	0.00	4.01	0.00	0.00	0.00	0.00
89	0.800	7.17	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60	0.03	0.00	0.53	0.00	0.00	0.00	3.87	0.00	0.00	0.00	0.00
90	0.700	7.18	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.03	0.00	0.53	0.00	0.00	0.00	3.72	0.00	0.00	0.00	0.00
91	0.600	7.18	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.03	0.00	0.53	0.00	0.00	0.00	3.58	0.00	0.00	0.00	0.00
92	0.500	7.18	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.03	0.00	0.53	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00
93	0.400	7.18	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.59	1.59	1.59	0.03	0.00	0.52	0.00	0.00	0.00	3.29	0.00	0.00	0.00	0.00
94	0.300	7.19	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00
95	0.200	7.19	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
96	0.100	7.19	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00
97	0.000	7.20	0.35	0.38	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.03	0.00	0.52	0.00	0.00	0.00	2.71	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 0.28 0.21 0.00 0.00 0.00 0.00 0.00 0.70 0.02 0.00 0.20 0.00 0.00 0.00 0.00 0.00 0.00
* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL				
56	4.100	33.88	0.00 0.00	0.00	6.62	24.55	0.00	24.55	0.00	1.71	0.10	0.01	1.81	0.00	93.45	0.00	0.	0.00	
57	4.000	33.85	0.00 0.00	0.00	6.50	23.84	0.00	23.84	0.00	1.71	0.10	0.00	1.81	0.00	91.90	0.00	0.	0.00	
58	3.900	33.83	0.00 0.00	0.00	6.39	23.15	0.00	23.15	0.00	1.72	0.10	0.00	1.81	0.00	90.36	0.00	0.	0.00	
59	3.800	33.80	0.00 0.00	0.00	6.29	22.49	0.00	22.49	0.00	1.72	0.10	0.00	1.82	0.00	88.81	0.00	0.	0.00	
60	3.700	33.78	0.00 0.00	0.00	6.21	21.84	0.00	21.84	0.00	1.73	0.10	0.00	1.82	0.00	87.26	0.00	0.	0.00	
61	3.600	33.76	0.00 0.00	0.00	6.14	21.23	0.00	21.23	0.00	1.73	0.09	0.00	1.83	0.00	85.71	0.00	0.	0.00	
62	3.500	33.73	0.00 0.00	0.00	6.08	20.63	0.00	20.63	0.00	1.74	0.09	0.00	1.83	0.00	84.17	0.00	0.	0.00	
63	3.400	33.71	0.00 0.00	0.00	6.02	20.05	0.00	20.05	0.00	1.75	0.09	0.00	1.84	0.00	82.62	0.00	0.	0.00	
64	3.300	33.69	0.00 0.00	0.00	5.98	19.49	0.00	19.49	0.00	1.75	0.09	0.00	1.84	0.00	81.07	0.00	0.	0.00	
65	3.200	33.66	0.00 0.00	0.00	5.94	18.95	0.00	18.95	0.00	1.76	0.09	0.00	1.85	0.00	79.52	0.00	0.	0.00	
66	3.100	33.64	0.00 0.00	0.00	5.90	18.43	0.00	18.43	0.00	1.76	0.09	0.00	1.85	0.00	77.98	0.00	0.	0.00	
67	3.000	33.61	0.00 0.00	0.00	5.88	17.92	0.00	17.92	0.00	1.77	0.09	0.00	1.86	0.00	76.43	0.00	0.	0.00	
68	2.900	33.59	0.00 0.00	0.00	5.85	17.43	0.00	17.43	0.00	1.77	0.09	0.00	1.86	0.00	74.88	0.00	0.	0.00	
69	2.800	33.57	0.00 0.00	0.00	5.84	16.96	0.00	16.96	0.00	1.78	0.09	0.00	1.87	0.00	73.33	0.00	0.	0.00	
70	2.700	33.54	0.00 0.00	0.00	5.82	16.51	0.00	16.51	0.00	1.78	0.09	0.00	1.87	0.00	71.79	0.00	0.	0.00	
71	2.600	33.52	0.00 0.00	0.00	5.81	16.07	0.00	16.07	0.00	1.79	0.09	0.00	1.88	0.00	70.24	0.00	0.	0.00	
72	2.500	33.50	0.00 0.00	0.00	5.80	15.64	0.00	15.64	0.00	1.79	0.09	0.00	1.88	0.00	68.69	0.00	0.	0.00	
73	2.400	33.47	0.00 0.00	0.00	5.79	15.23	0.00	15.23	0.00	1.80	0.09	0.00	1.89	0.00	67.14	0.00	0.	0.00	
74	2.300	33.45	0.00 0.00	0.00	5.79	14.83	0.00	14.83	0.00	1.81	0.09	0.00	1.89	0.00	65.60	0.00	0.	0.00	
75	2.200	33.42	0.00 0.00	0.00	5.78	14.45	0.00	14.45	0.00	1.81	0.09	0.00	1.90	0.00	64.05	0.00	0.	0.00	
76	2.100	33.40	0.00 0.00	0.00	5.77	14.08	0.00	14.08	0.00	1.82	0.09	0.00	1.90	0.00	62.50	0.00	0.	0.00	
77	2.000	33.38	0.00 0.00	0.00	5.77	13.72	0.00	13.72	0.00	1.82	0.09	0.00	1.91	0.00	60.95	0.00	0.	0.00	
78	1.900	33.35	0.00 0.00	0.00	5.76	13.37	0.00	13.37	0.00	1.83	0.09	0.00	1.92	0.00	59.40	0.00	0.	0.00	
79	1.800	33.33	0.00 0.00	0.00	5.76	13.03	0.00	13.03	0.00	1.83	0.09	0.00	1.92	0.00	57.86	0.00	0.	0.00	
80	1.700	33.30	0.00 0.00	0.00	5.75	12.71	0.00	12.71	0.00	1.84	0.09	0.00	1.93	0.00	56.31	0.00	0.	0.00	
81	1.600	33.28	0.00 0.00	0.00	5.74	12.39	0.00	12.39	0.00	1.84	0.09	0.00	1.93	0.00	54.76	0.00	0.	0.00	
82	1.500	33.26	0.00 0.00	0.00	5.73	12.09	0.00	12.09	0.00	1.85	0.09	0.00	1.94	0.00	53.21	0.00	0.	0.00	
83	1.400	33.23	0.00 0.00	0.00	5.71	11.80	0.00	11.80	0.00	1.85	0.09	0.00	1.94	0.00	51.67	0.00	0.	0.00	
84	1.300	33.21	0.00 0.00	0.00	5.70	11.51	0.00	11.51	0.00	1.86	0.09	0.00	1.95	0.00	50.12	0.00	0.	0.00	
85	1.200	33.19	0.00 0.00	0.00	5.68	11.24	0.00	11.24	0.00	1.86	0.09	0.00	1.95	0.00	48.57	0.00	0.	0.00	
86	1.100	33.16	0.00 0.00	0.00	5.66	10.97	0.00	10.97	0.00	1.87	0.09	0.00	1.96	0.00	47.02	0.00	0.	0.00	
87	1.000	33.14	0.00 0.00	0.00	5.64	10.72	0.00	10.72	0.00	1.87	0.09	0.00	1.96	0.00	45.48	0.00	0.	0.00	
88	0.900	33.11	0.00 0.00	0.00	5.61	10.47	0.00	10.47	0.00	1.88	0.09	0.00	1.97	0.00	43.93	0.00	0.	0.00	
89	0.800	33.09	0.00 0.00	0.00	5.58	10.23	0.00	10.23	0.00	1.88	0.09	0.00	1.97	0.00	42.38	0.00	0.	0.00	
90	0.700	33.07	0.00 0.00	0.00	5.55	10.00	0.00	10.00	0.00	1.89	0.09	0.00	1.98	0.00	40.83	0.00	0.	0.00	
91	0.600	33.04	0.00 0.00	0.00	5.51	9.77	0.00	9.77	0.00	1.89	0.09	0.00	1.98	0.00	39.29	0.00	0.	0.00	
92	0.500	33.02	0.00 0.00	0.00	5.47	9.56	0.00	9.56	0.00	1.90	0.09	0.00	1.99	0.00	37.74	0.00	0.	0.00	
93	0.400	33.00	0.00 0.00	0.00	5.43	9.35	0.00	9.35	0.00	1.90	0.09	0.00	1.99	0.00	36.19	0.00	0.	0.00	
94	0.300	32.97	0.00 0.00	0.00	5.38	9.16	0.00	9.16	0.00	1.91	0.09	0.00	2.00	0.00	34.64	0.00	0.	0.00	
95	0.200	32.95	0.00 0.00	0.00	5.32	9.04	0.00	9.04	0.00	1.92	0.09	0.00	2.01	0.00	33.10	0.00	0.	0.00	
96	0.100	32.92	0.00 0.00	0.00	5.26	9.20	0.00	9.20	0.00	1.93	0.09	0.00	2.02	0.00	31.55	0.00	0.	0.00	
97	0.000	32.90	0.00 0.00	0.00	5.23	10.57	0.00	10.57	0.00	1.95	0.09	0.00	2.04	0.00	30.00	0.00	0.	0.00	

STREAM SUMMARY — LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
Fourmile Bayou Oxbow — TMDL Simulation for Lake Verret and Grassy Lake model
TRAVEL TIME = 3.60 DAYS

MAXIMUM EFFLUENT = 0.00 PERCENT
FLOW = 2.93333 TO 2.93333 m³/s
DISPERSION = 0.4000 TO 0.4000 m²/s
VELOCITY = 0.01349 TO 0.01349 m/s
DEPTH = 2.50 TO 2.50 m
WIDTH = 87.00 TO 87.00 m
BOD DECAY = 0.38 TO 0.40 per day
NH3 DECAY = 0.52 TO 0.58 per day
SOD = 1.58 TO 1.68 g/m²/d
NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 0.35 TO 0.36 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.03 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day
TEMPERATURE = 32.90 TO 33.88 deg C
DISSOLVED OXYGEN = 5.23 TO 6.62 mg/L

LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
TMDL Simulation for Lake Verret and Grassy Lake model
REACH SUMMARY REPORT FOR Grassy Lake

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	Grassy Lake	28.30	24.80	3.50	2.85	17.30000	0.01423	1.010	1343.00	610.863	0.047	3.314	4406.38
2	Fourmile Bayou 1	24.80	22.80	2.00	0.75	17.30000	0.03086	5.240	107.00	610.863	0.101	17.192	351.07
4	Fourmile Bayou 2	22.80	19.40	3.40	0.74	20.23333	0.05298	4.390	87.00	714.439	0.174	14.404	285.45
5	Lake Verret 1	19.40	14.50	4.90	4.75	30.26918	0.01194	1.340	1892.00	1068.805	0.039	4.397	6207.65
6	Lake Verret 2	14.50	2.90	11.60	38.65	30.28227	0.00347	2.130	4092.00	1069.267	0.011	6.98913	425.85
7	Lake Verret 3	2.90	0.00	2.90	1.66	30.28237	0.02025	1.950	767.00	1069.270	0.066	6.398	2516.53

LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
TMDL Simulation for Lake Verret and Grassy Lake model
REACH SUMMARY REPORT FOR Fourmile Bayou Oxbow

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
3	Fourmile Bayou Oxbow	4.20	0.00	4.20	3.60	2.93333	0.01349	2.500	87.00	103.576	0.044	8.202	285.45

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE IN	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM DECA	SOD BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT OUT
1	11713.	0.	-11722.	0.	0.	3.	0.	0.	0.	0.	0.	59.	-1043.	-32.	0.	0.	-215.	0.	0.	0.	1237.	0.	0.	-13012.0	13011.9	-0.04
2	11722.	0.	-11730.	-3.	0.	3.	0.	0.	0.	0.	0.	58.	-1040.	-32.	0.	0.	-215.	0.	0.	0.	1237.	0.	0.	-13020.2	13020.1	-0.04
3	11730.	0.	-11739.	-3.	0.	3.	0.	0.	0.	0.	0.	57.	-1038.	-32.	0.	0.	-215.	0.	0.	0.	1236.	0.	0.	-13027.1	13027.1	-0.04
4	11739.	0.	-11749.	-3.	0.	4.	0.	0.	0.	0.	0.	56.	-1035.	-31.	0.	0.	-216.	0.	0.	0.	1236.	0.	0.	-13034.9	13034.9	-0.04
5	11749.	0.	-11760.	-4.	0.	4.	0.	0.	0.	0.	0.	55.	-1033.	-31.	0.	0.	-216.	0.	0.	0.	1235.	0.	0.	-13043.6	13043.5	-0.04
6	11760.	0.	-11771.	-4.	0.	4.	0.	0.	0.	0.	0.	54.	-1030.	-31.	0.	0.	-216.	0.	0.	0.	1235.	0.	0.	-13052.8	13052.8	-0.04
7	11771.	0.	-11783.	-4.	0.	4.	0.	0.	0.	0.	0.	53.	-1028.	-31.	0.	0.	-217.	0.	0.	0.	1235.	0.	0.	-13062.7	13062.7	-0.04
8	11783.	0.	-11796.	-4.	0.	4.	0.	0.	0.	0.	0.	51.	-1026.	-31.	0.	0.	-217.	0.	0.	0.	1234.	0.	0.	-13073.0	13073.0	-0.04
9	11796.	0.	-11808.	-4.	0.	4.	0.	0.	0.	0.	0.	50.	-1023.	-31.	0.	0.	-217.	0.	0.	0.	1234.	0.	0.	-13083.7	13083.7	-0.04
10	11808.	0.	-11821.	-4.	0.	4.	0.	0.	0.	0.	0.	49.	-1021.	-30.	0.	0.	-218.	0.	0.	0.	1233.	0.	0.	-13094.7	13094.6	-0.04
11	11821.	0.	-11834.	-4.	0.	4.	0.	0.	0.	0.	0.	48.	-1019.	-30.	0.	0.	-218.	0.	0.	0.	1233.	0.	0.	-13105.9	13105.8	-0.04
12	11834.	0.	-11848.	-4.	0.	4.	0.	0.	0.	0.	0.	46.	-1017.	-30.	0.	0.	-218.	0.	0.	0.	1232.	0.	0.	-13117.2	13117.2	-0.04

13	11848.	0.	-11861.	-4.	0.	4.	0.	0.	0.	0.	0.	45.	-1015.	-30.	0.	0.	-219.	0.	0.	0.	1232.	0.	0.	-13128.6	13128.6	-0.04									
14	11861.	0.	-11874.	-4.	0.	4.	0.	0.	0.	0.	0.	44.	-1013.	-30.	0.	0.	-219.	0.	0.	0.	1231.	0.	0.	-13140.0	13140.0	-0.04									
15	11874.	0.	-11887.	-4.	0.	4.	0.	0.	0.	0.	0.	42.	-1011.	-30.	0.	0.	-219.	0.	0.	0.	1231.	0.	0.	-13151.4	13151.4	-0.04									
16	11887.	0.	-11900.	-4.	0.	4.	0.	0.	0.	0.	0.	41.	-1009.	-30.	0.	0.	-220.	0.	0.	0.	1230.	0.	0.	-13162.8	13162.7	-0.04									
17	11900.	0.	-11913.	-4.	0.	4.	0.	0.	0.	0.	0.	40.	-1007.	-30.	0.	0.	-220.	0.	0.	0.	1230.	0.	0.	-13174.0	13173.9	-0.04									
18	11913.	0.	-11926.	-4.	0.	4.	0.	0.	0.	0.	0.	39.	-1005.	-30.	0.	0.	-220.	0.	0.	0.	1229.	0.	0.	-13185.0	13184.9	-0.04									
19	11926.	0.	-11938.	-4.	0.	4.	0.	0.	0.	0.	0.	37.	-1003.	-30.	0.	0.	-220.	0.	0.	0.	1229.	0.	0.	-13195.8	13195.8	-0.04									
20	11938.	0.	-11951.	-4.	0.	4.	0.	0.	0.	0.	0.	36.	-1001.	-30.	0.	0.	-221.	0.	0.	0.	1228.	0.	0.	-13206.4	13206.4	-0.04									
21	11951.	0.	-11962.	-4.	0.	4.	0.	0.	0.	0.	0.	35.	-999.	-30.	0.	0.	-221.	0.	0.	0.	1227.	0.	0.	-13216.8	13216.8	-0.04									
22	11962.	0.	-11974.	-4.	0.	4.	0.	0.	0.	0.	0.	34.	-998.	-30.	0.	0.	-221.	0.	0.	0.	1227.	0.	0.	-13226.9	13226.8	-0.04									
23	11974.	0.	-11985.	-4.	0.	4.	0.	0.	0.	0.	0.	33.	-996.	-30.	0.	0.	-222.	0.	0.	0.	1226.	0.	0.	-13236.7	13236.6	-0.04									
24	11985.	0.	-11996.	-4.	0.	4.	0.	0.	0.	0.	0.	31.	-994.	-30.	0.	0.	-222.	0.	0.	0.	1226.	0.	0.	-13246.1	13246.1	-0.04									
25	11996.	0.	-12007.	-4.	0.	4.	0.	0.	0.	0.	0.	30.	-993.	-30.	0.	0.	-222.	0.	0.	0.	1225.	0.	0.	-13255.4	13255.3	-0.04									
26	12007.	0.	-10275.	-4.	0.	4.	0.	0.	0.	0.	-1742.	29.	-991.	-30.	0.	0.	-223.	0.	0.	0.	1225.	0.	0.	-13264.7	13264.7	-0.04									
27	10275.	0.	-10285.	-4.	0.	4.	0.	0.	0.	0.	0.	28.	-989.	-30.	0.	0.	-223.	0.	0.	0.	1224.	0.	0.	-11531.3	11531.3	-0.04									
28	10285.	0.	-10295.	-4.	0.	4.	0.	0.	0.	0.	0.	27.	-987.	-30.	0.	0.	-223.	0.	0.	0.	1224.	0.	0.	-11539.5	11539.5	-0.04									
29	10295.	0.	-10305.	-4.	0.	4.	0.	0.	0.	0.	0.	26.	-985.	-30.	0.	0.	-224.	0.	0.	0.	1223.	0.	0.	-11547.5	11547.5	-0.04									
30	10305.	0.	-10314.	-4.	0.	4.	0.	0.	0.	0.	0.	24.	-984.	-30.	0.	0.	-224.	0.	0.	0.	1223.	0.	0.	-11555.3	11555.3	-0.04									
31	10314.	0.	-10323.	-4.	0.	3.	0.	0.	0.	0.	0.	23.	-982.	-30.	0.	0.	-224.	0.	0.	0.	1222.	0.	0.	-11562.8	11562.8	-0.04									
32	10323.	0.	-10332.	-3.	0.	3.	0.	0.	0.	0.	0.	22.	-980.	-30.	0.	0.	-225.	0.	0.	0.	1222.	0.	0.	-11570.1	11570.0	-0.04									
33	10332.	0.	-10340.	-3.	0.	3.	0.	0.	0.	0.	0.	21.	-978.	-30.	0.	0.	-225.	0.	0.	0.	1221.	0.	0.	-11576.9	11576.9	-0.04									
34	10340.	0.	-10348.	-3.	0.	2.	0.	0.	0.	0.	0.	20.	-976.	-30.	0.	0.	-225.	0.	0.	0.	1221.	0.	0.	-11582.9	11582.9	-0.04									
35	10348.	0.	-10354.	-2.	0.	-2.	0.	0.	0.	0.	0.	19.	-973.	-31.	0.	0.	-226.	0.	0.	0.	1220.	0.	0.	-11587.0	11587.0	-0.04									
36	10354.	0.	-10347.	2.	0.	-2.	0.	0.	0.	0.	0.	2.	-463.	-13.	0.	0.	-18.	0.	0.	0.	486.	0.	0.	-10842.6	10842.6	-0.02									
37	10347.	0.	-10330.	2.	0.	-4.	0.	0.	0.	0.	0.	2.	-455.	-13.	0.	0.	-18.	0.	0.	0.	468.	0.	0.	-10819.0	10819.0	-0.02									
38	10330.	0.	-10302.	4.	0.	-5.	0.	0.	0.	0.	0.	2.	-448.	-12.	0.	0.	-18.	0.	0.	0.	449.	0.	0.	-10784.9	10784.9	-0.02									
39	10302.	0.	-10263.	5.	0.	-6.	0.	0.	0.	0.	0.	2.	-441.	-12.	0.	0.	-18.	0.	0.	0.	431.	0.	0.	-10740.4	10740.3	-0.02									
40	10263.	0.	-10214.	6.	0.	-8.	0.	0.	0.	0.	0.	3.	-434.	-12.	0.	0.	-18.	0.	0.	0.	413.	0.	0.	-10685.4	10685.4	-0.02									
41	10214.	0.	-10154.	8.	0.	-9.	0.	0.	0.	0.	0.	3.	-427.	-12.	0.	0.	-18.	0.	0.	0.	395.	0.	0.	-10620.1	10620.1	-0.02									
42	10154.	0.	-10084.	9.	0.	-10.	0.	0.	0.	0.	0.	4.	-420.	-12.	0.	0.	-18.	0.	0.	0.	377.	0.	0.	-10544.4	10544.3	-0.02									
43	10084.	0.	-10003.	10.	0.	-12.	0.	0.	0.	0.	0.	4.	-413.	-12.	0.	0.	-18.	0.	0.	0.	360.	0.	0.	-10458.3	10458.3	-0.02									
44	10003.	0.	-9912.	12.	0.	-13.	0.	0.	0.	0.	0.	5.	-407.	-12.	0.	0.	-17.	0.	0.	0.	342.	0.	0.	-10361.9	10361.9	-0.02									
45	9912.	0.	-9811.	13.	0.	-15.	0.	0.	0.	0.	0.	5.	-400.	-12.	0.	0.	-17.	0.	0.	0.	324.	0.	0.	-10255.1	10255.1	-0.01									
46	9811.	0.	-9699.	15.	0.	-16.	0.	0.	0.	0.	0.	6.	-394.	-12.	0.	0.	-17.	0.	0.	0.	307.	0.	0.	-10138.1	10138.1	-0.02									
47	9699.	0.	-9576.	16.	0.	-17.	0.	0.	0.	0.	0.	7.	-388.	-12.	0.	0.	-17.	0.	0.	0.	289.	0.	0.	-10010.8	10010.8	-0.01									
48	9576.	0.	-9444.	17.	0.	-19.	0.	0.	0.	0.	0.	8.	-382.	-12.	0.	0.	-17.	0.	0.	0.	272.	0.	0.	-9873.3	9873.2	-0.01									
49	9444.	0.	-9301.	19.	0.	-20.	0.	0.	0.	0.	0.	9.	-376.	-12.	0.	0.	-17.	0.	0.	0.	254.	0.	0.	-9725.5	9725.5	-0.01									
50	9301.	0.	-9147.	20.	0.	-21.	0.	0.	0.	0.	0.	10.	-370.	-12.	0.	0.	-17.	0.	0.	0.	237.	0.	0.	-9567.6	9567.6	-0.01									
51	9147.	0.	-8984.	21.	0.	-23.	0.	0.	0.	0.	0.	11.	-364.	-12.	0.	0.	-17.	0.	0.	0.	220.	0.	0.	-9399.5	9399.5	-0.01									
52	8984.	0.	-8810.	23.	0.	-24.	0.	0.	0.	0.	0.	12.	-359.	-12.	0.	0.	-17.	0.	0.	0.	203.	0.	0.	-9221.4	9221.4	-0.01									
53	8810.	0.	-8626.	24.	0.	-25.	0.	0.	0.	0.	0.	13.	-353.	-12.	0.	0.	-17.	0.	0.	0.	186.	0.	0.	-9033.1	9033.1	-0.01									
54	8626.	0.	-8434.	25.	0.	-25.	0.	0.	0.	0.	0.	15.	-348.	-12.	0.	0.	-17.	0.	0.	0.	169.	0.	0.	-8834.9	8834.9	-0.01									
55	8434.	0.	-8243.	25.	0.	-14.	0.	0.	0.	0.	0.	16.	-341.	-11.	0.	0.	-17.	0.	0.	0.	152.	0.	0.	-8626.7	8626.7	0.00									
98	8243.	1326.	-9446.	14.	-20.	-4.	0.	0.	0.	0.	0.	14.	-216.	-8.	0.	0.	-14.	0.	0.	0.	111.	0.	0.	-9707.6	9707.6	0.00									
99	9446.	0.	-9342.	4.	0.	-4.	0.	0.	0.	0.	0.	14.	-214.	-8.	0.	0.	-14.	0.	0.	0.	118.	0.	0.	-9581.7	9581.7	0.00									
100	9342.	0.	-9248.	4.	0.	-3.	0.	0.	0.	0.	0.	15.	-213.	-8.	0.	0.	-14.	0.	0.	0.	125.	0.	0.	-9485.4	9485.3	0.00									
101	9248.	0.	-9163.	3.	0.	-3.	0.	0.	0.	0.	0.	15.	-211.	-8.	0.	0.	-14.	0.	0.	0.	132.	0.	0.	-9398.2	9398.2	0.00									

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE IN	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM DECA	SOD BKGD	SOD BOD1	SOD ALG	SOD NCM	ALG PHOT	ALG RESP	MAC PHOT	TOT OUT	TOT IN

102	9163.	0.	-9087.	3.	0.	-3.	0.	0.	0.	0.	0.	15.	-209.	-8.	0.	0.	-14.	0.	0.	0.	139.	0.	0.	-9320.1	9320.1	0.00			
103	9087.	0.	-9020.	3.	0.	-2.	0.	0.	0.	0.	0.	16.	-208.	-8.	0.	0.	-14.	0.	0.	0.	146.	0.	0.	-9251.0	9251.0	0.00			
104	9020.	0.	-8961.	2.	0.	-2.	0.	0.	0.	0.	0.	16.	-206.	-8.	0.	0.	-14.	0.	0.	0.	153.	0.	0.	-9190.9	9190.9	0.00			
105	8961.	0.	-8912.	2.	0.	-2.	0.	0.	0.	0.	0.	16.	-205.	-8.	0.	0.	-14.	0.	0.	0.	160.	0.	0.	-9139.8	9139.8	0.00			
106	8912.	0.	-8872.	2.	0.	-1.	0.	0.	0.	0.	0.	16.	-203.	-8.	0.	0.	-14.	0.	0.	0.	167.	0.	0.	-9097.5	9097.5	0.00			
107	8872.	0.	-8840.	1.	0.	-1.	0.	0.	0.	0.	0.	16.	-201.	-8.	0.	0.	-14.	0.	0.	0.	174.	0.	0.	-9064.0	9064.0	0.00			
108	8840.	0.	-8817.	1.	0.	-1.	0.	0.	0.	0.	0.	17.	-200.	-8.	0.	0.	-14.	0.	0.	0.	182.	0.	0.	-9039.3	9039.3	0.00			
109	8817.	0.	-8803.	1.	0.	0.	0.	0.	0.	0.	0.	17.	-198.	-8.	0.	0.	-14.	0.	0.	0.	189.	0.	0.	-9023.2	9023.2	0.00			
110	8803.	0.	-8798.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-197.	-8.	0.	0.	-14.	0.	0.	0.	196.	0.	0.	-9016.0	9016.0	0.00			
111	8798.	0.	-8801.	0.	0.	0.	0.	0.	0.	0.	0.	17.	-195.	-8.	0.	0.	-14.	0.	0.	0.	203.	0.	0.	-9017.6	9017.6	0.00			
112	8801.	0.	-8812.	0.	0.	1.	0.	0.	0.	0.	0.	17.	-194.	-8.	0.	0.	-14.	0.	0.	0.	210.	0.	0.	-9028.0	9028.0	0.00			
113	8812.	0.	-8832.	-1.	0.	1.	0.	0.	0.	0.	0.	17.	-192.	-8.	0.	0.	-14.	0.	0.	0.	217.	0.	0.	-9046.8	9046.8	0.00			
114	8832.	0.	-8861.	-1.	0.	1.	0.	0.	0.	0.	0.	16.	-191.	-8.	0.	0.	-14.	0.	0.	0.	224.	0.	0.	-9074.1	9074.1	0.00			
115	8861.	0.	-8898.	-1.	0.	2.	0.	0.	0.	0.	0.	16.	-189.	-8.	0.	0.	-14.	0.	0.	0.	231.	0.	0.	-9109.8	9109.8	0.00			
116	8898.	0.	-8943.	-2.	0.	2.	0.	0.	0.	0.	0.	16.	-188.	-8.	0.	0.	-14.	0.	0.	0.	238.	0.	0.	-9153.7	9153.7	0.00			
117	8943.	0.	-8996.	-2.	0.	2.	0.	0.	0.	0.	0.	16.	-186.	-8.	0.	0.	-14.	0.	0.	0.	245.	0.	0.	-9206.0	9206.0	0.00			
118	8996.	0.	-9058.	-2.	0.	3.	0.	0.	0.	0.	0.	16.	-185.	-8.	0.	0.	-14.	0.	0.	0.	252.	0.	0.	-9266.4	9266.4	0.00			
119	9058.	0.	-9127.	-3.	0.	3.	0.	0.	0.	0.	0.	15.	-184.	-8.	0.	0.	-14.	0.	0.	0.	259.	0.	0.	-9335.0	9335.0	0.00			
120	9127.	0.	-9205.	-3.	0.	3.	0.	0.	0.	0.	0.	15.	-182.	-8.	0.	0.	-14.	0.	0.	0.	266.	0.	0.	-9411.8	9411.8	0.00			
121	9205.	0.	-9291.	-3.	0.	4.	0.	0.	0.	0.	0.	15.	-181.	-8.	0.	0.	-14.	0.	0.	0.	273.	0.	0.	-9496.6	9496.6	0.00			
122	9291.	0.	-9385.	-4.	0.	4.	0.	0.	0.	0.	0.	14.	-179.	-8.	0.	0.	-14.	0.	0.	0.	280.	0.	0.	-9589.4	9589.4	0.00			
123	9385.	0.	-9487.	-4.	0.	4.	0.	0.	0.	0.	0.	14.	-178.	-8.	0.	0.	-14.	0.	0.	0.	287.	0.	0.	-9690.2	9690.1	0.00			
124	9487.	0.	-9596.	-4.	0.	4.	0.	0.	0.	0.	0.	13.	-177.	-8.	0.	0.	-14.	0.	0.	0.	295.	0.	0.	-9798.8	9798.8	0.00			
125	9596.	0.	-9714.	-4.	0.	5.	0.	0.	0.	0.	0.	13.	-175.	-8.	0.	0.	-14.	0.	0.	0.	302.	0.	0.	-9915.4	9915.4	-0.01			
126	9714.	0.	-9839.	-5.	0.	5.	0.	0.	0.	0.	0.	12.	-174.	-8.	0.	0.	-14.	0.	0.	0.	309.	0.	0.	-10039.8	10039.8	-0.01			
127	9839.	0.	-9973.	-5.	0.	5.	0.	0.	0.	0.	0.	12.	-173.	-8.	0.	0.	-14.	0.	0.	0.	316.	0.	0.	-10171.9	10171.9	0.00			
128	9973.	0.	-10113.	-5.	0.	6.	0.	0.	0.	0.	0.	11.	-171.	-8.	0.	0.	-14.	0.	0.	0.	323.	0.	0.	-10311.8	10311.8	-0.01			
129	10113.	0.	-10262.	-6.	0.	6.	0.	0.	0.	0.	0.	10.	-170.	-8.	0.	0.	-14.	0.	0.	0.	330.	0.	0.	-10459.6	10459.6	-0.01			
130	10262.	0.	-10425.	-6.	0.	13.	0.	0.	0.	0.	0.	10.	-169.	-8.	0.	0.	-14.	0.	0.	0.	337.	0.	0.	-10621.8	10621.7	-0.01			
131	10425.	0.	-10776.	-13.	0.	207.	0.	0.	0.	0.	0.	8.	-172.	-8.	0.	0.	-14.	0.	0.	0.	344.	0.	0.	-10983.7	10983.7	-0.01			
132	10776.	0.	-18267.	-207.	0.	140.	0.	0.	0.	6588.	0.	40.	-1043.	-57.	0.	0.	-254.	0.	0.	0.	2284.	0.	0.	-19828.5	19828.4	-0.08			
133	18267.	0.	-19104.	-140.	0.	123.	0.	0.	0.	0.	0.	17.	-1102.	-58.	0.	0.	-254.	0.	0.	0.	2286.	0.	0.	-20675.6	20675.5	-0.10			
134	19104.	0.	-19837.	-123.	0.	107.	0.	0.	0.	0.	0.	67.	-1159.	-58.	0.	0.	-254.	0.	0.	0.	2288.	0.	0.	-21498.4	21498.3	-0.10			
135	19837.	0.	-20473.	-107.	0.	92.	0.	0.	0.	0.	0.	111.	-1215.	-59.	0.	0.	-254.	0.	0.	0.	2290.	0.	0.	-22218.1	22218.0	-0.11			
136	20473.	0.	-21021.	-92.	0.	78.	0.	0.	0.	0.	0.	148.	-1269.	-59.	0.	0.	-254.	0.	0.	0.	2291.	0.	0.	-22842.8	22842.7	-0.11			
137	21021.	0.	-21487.	-78.	0.	66.	0.	0.	0.	0.	0.	180.	-1322.	-59.	0.	0.	-254.	0.	0.	0.	2293.	0.	0.	-23380.0	23379.9	-0.12			
138	21487.	0.	-21879.	-66.	0.	54.	0.	0.	0.	0.	0.	207.	-1373.	-59.	0.	0.	-254.	0.	0.	0.	2295.	0.	0.	-23836.6	23836.5	-0.12			
139	21879.	0.	-22201.	-54.	0.	43.	0.	0.	0.	0.	0.	229.	-1422.	-59.	0.	0.	-254.	0.	0.	0.	2297.	0.	0.	-24219.0	24218.9	-0.11			
140	22201.	0.	-22460.	-43.	0.	34.	0.	0.	0.	1.	0.	246.	-1471.	-60.	0.	0.	-254.	0.	0.	0.	2299.	0.	0.	-24534.2	24534.1	-0.12			
141	22460.	0.	-22660.	-34.	0.	25.	0.	0.	0.	0.	0.	260.	-1518.	-60.	0.	0.	-254.	0.	0.	0.	2301.	0.	0.	-24785.8	24785.6	-0.12			
142	22660.	0.	-22808.	-25.	0.	16.	0.	0.	0.	0.	0.	270.	-1564.	-60.	0.	0.	-253.	0.	0.	0.	2303.	0.	0.	-24979.9	24979.8	-0.12			
143	22808.	0.	-22906.	-16.	0.	9.	0.	0.	0.	0.	0.	277.	-1608.	-61.	0.	0.	-253.	0.	0.	0.	2305.	0.	0.	-25121.5	25121.4	-0.12			
144	22906.	0.	-22960.	-9.	0.	2.	0.	0.	0.	0.	0.	280.	-1652.	-61.	0.	0.	-253.	0.	0.	0.	2307.	0.	0.	-25215.1	25215.0	-0.12			
145	22960.	0.	-22974.	-2.	0.	-4.	0.	0.	0.	0.	0.	281.	-1694.	-61.	0.	0.	-253.	0.	0.	0.	2309.	0.	0.	-25268.8	25268.6	-0.12			
146	22974.	0.	-22950.	4.	0.	-10.	0.	0.	0.	0.	0.	279.	-1735.	-61.	0.	0.	-253.	0.	0.	0.	2310.	0.	0.	-25288.0	25287.9	-0.12			
147	22950.	0.	-22893.	10.	0.	-15.	0.	0.	0.	0.	0.	275.	-1775.	-61.	0.	0.	-253.	0.	0.	0.	2312.	0.	0.	-25272.1	25272.0	-0.12			
148	22893.	0.	-22806.	15.	0.	-19.	0.	0.	0.	0.	0.	269.	-1814.	-62.	0.	0.	-253.	0.	0.	0.	2314.	0.	0.	-25222.0	25221.9	-0.12			
149	22806.	0.	-22691.	19.	0.	-23.	0.	0.	0.	0.	0.	261.	-1851.	-62.	0.	0.	-253.	0.	0.	0.	2316.	0.	0.	-25141.3	25141.1	-0.12			
150	22691.	0.	-22551.	23.	0.	-27.	0.	0.	0.	0.	0.	251.	-1888.	-62.	0.	0.	-253.	0.	0.	0.	2318.	0.	0.	-25032.1	25032.0	-0.12			
151	22551.	0.	-22388.	27.	0.	-31.	0.	0.	0.	0.	0.	240.	-1924.	-62.	0.	0.	-253.	0.	0.	0.	2320.	0.	0.	-24897.8	24897.6	-0.12			

152	22388.	0.	-22206.	31.	0.	-34.	0.	0.	0.	0.	0.	-228.	-1958.	-62.	0.	0.	-253.	0.	0.	0.	2322.	0.	0.	-24740.7	24740.5	-0.12					
153	22206.	0.	-22006.	34.	0.	-36.	0.	0.	0.	0.	0.	-214.	-1992.	-63.	0.	0.	-253.	0.	0.	0.	2324.	0.	0.	-24563.2	24563.1	-0.12					
154	22006.	0.	-21789.	36.	0.	-39.	0.	0.	0.	0.	0.	-199.	-2025.	-63.	0.	0.	-253.	0.	0.	0.	2325.	0.	0.	-24367.5	24367.4	-0.12					
155	21789.	0.	-21559.	39.	0.	-41.	0.	0.	0.	0.	0.	-183.	-2057.	-63.	0.	0.	-253.	0.	0.	0.	2327.	0.	0.	-24155.5	24155.4	-0.12					
156	21559.	0.	-21317.	41.	0.	-42.	0.	0.	0.	0.	0.	-166.	-2088.	-63.	0.	0.	-253.	0.	0.	0.	2329.	0.	0.	-23929.2	23929.1	-0.12					
157	21317.	0.	-21063.	42.	0.	-44.	0.	0.	0.	0.	0.	-149.	-2118.	-64.	0.	0.	-252.	0.	0.	0.	2331.	0.	0.	-23690.2	23690.1	-0.12					
158	21063.	0.	-20800.	44.	0.	-45.	0.	0.	0.	0.	0.	-131.	-2147.	-64.	0.	0.	-252.	0.	0.	0.	2333.	0.	0.	-23440.2	23440.1	-0.12					
159	20800.	0.	-20529.	45.	0.	-47.	0.	0.	0.	0.	0.	-112.	-2176.	-64.	0.	0.	-252.	0.	0.	0.	2335.	0.	0.	-23180.5	23180.4	-0.12					
160	20529.	0.	-20252.	47.	0.	-47.	0.	0.	0.	0.	0.	-93.	-2204.	-64.	0.	0.	-252.	0.	0.	0.	2337.	0.	0.	-22912.6	22912.5	-0.12					

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE IN	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT
161	20252.	0.	-19968.	47.	0.	-48.	0.	0.	0.	0.	0.	-74.	-2231.	-64.	0.	0.	-252.	0.	0.	0.	2339.	0.	0.	-22637.7	22637.6	-0.12
162	19968.	0.	-19680.	48.	0.	-49.	0.	0.	0.	0.	0.	-54.	-2257.	-64.	0.	0.	-252.	0.	0.	0.	2341.	0.	0.	-22357.1	22357.0	-0.11
163	19680.	0.	-19389.	49.	0.	-49.	0.	0.	0.	0.	0.	-34.	-2283.	-64.	0.	0.	-252.	0.	0.	0.	2342.	0.	0.	-22071.7	22071.6	-0.11
164	19389.	0.	-19095.	49.	0.	-50.	0.	0.	0.	0.	0.	-14.	-2308.	-65.	0.	0.	-252.	0.	0.	0.	2344.	0.	0.	-21782.6	21782.5	-0.11
165	19095.	0.	-18799.	50.	0.	-50.	0.	0.	0.	0.	0.	6.	-2332.	-65.	0.	0.	-252.	0.	0.	0.	2346.	0.	0.	-21497.0	21496.9	-0.10
166	18799.	0.	-18501.	50.	0.	-50.	0.	0.	0.	0.	0.	27.	-2356.	-65.	0.	0.	-252.	0.	0.	0.	2348.	0.	0.	-21223.3	21223.2	-0.10
167	18501.	0.	-18203.	50.	0.	-50.	0.	0.	0.	0.	0.	47.	-2378.	-65.	0.	0.	-252.	0.	0.	0.	2350.	0.	0.	-20948.3	20948.2	-0.10
168	18203.	0.	-17905.	50.	0.	-50.	0.	0.	0.	0.	0.	68.	-2401.	-65.	0.	0.	-252.	0.	0.	0.	2352.	0.	0.	-20672.6	20672.5	-0.09
169	17905.	0.	-17608.	50.	0.	-50.	0.	0.	0.	0.	0.	88.	-2422.	-65.	0.	0.	-252.	0.	0.	0.	2354.	0.	0.	-20396.8	20396.8	-0.09
170	17608.	0.	-17312.	50.	0.	-49.	0.	0.	0.	0.	0.	108.	-2444.	-65.	0.	0.	-252.	0.	0.	0.	2356.	0.	0.	-20121.5	20121.5	-0.09
171	17312.	0.	-17017.	49.	0.	-49.	0.	0.	0.	0.	0.	129.	-2464.	-65.	0.	0.	-252.	0.	0.	0.	2357.	0.	0.	-19847.2	19847.1	-0.08
172	17017.	0.	-16724.	49.	0.	-49.	0.	0.	0.	0.	0.	149.	-2484.	-65.	0.	0.	-252.	0.	0.	0.	2359.	0.	0.	-19574.1	19574.0	-0.07
173	16724.	0.	-16434.	49.	0.	-48.	0.	0.	0.	0.	0.	168.	-2503.	-66.	0.	0.	-251.	0.	0.	0.	2361.	0.	0.	-19302.8	19302.7	-0.07
174	16434.	0.	-16147.	48.	0.	-48.	0.	0.	0.	0.	0.	188.	-2522.	-66.	0.	0.	-251.	0.	0.	0.	2363.	0.	0.	-19033.6	19033.5	-0.07
175	16147.	0.	-15862.	48.	0.	-47.	0.	0.	0.	0.	0.	208.	-2541.	-66.	0.	0.	-251.	0.	0.	0.	2365.	0.	0.	-18766.8	18766.8	-0.06
176	15862.	0.	-15581.	47.	0.	-47.	0.	0.	0.	0.	0.	227.	-2559.	-66.	0.	0.	-251.	0.	0.	0.	2367.	0.	0.	-18502.8	18502.7	-0.05
177	15581.	0.	-15303.	47.	0.	-46.	0.	0.	0.	0.	0.	246.	-2576.	-66.	0.	0.	-251.	0.	0.	0.	2369.	0.	0.	-18241.7	18241.7	-0.05
178	15303.	0.	-15027.	46.	0.	-48.	0.	0.	0.	0.	0.	265.	-2592.	-66.	0.	0.	-251.	0.	0.	0.	2370.	0.	0.	-17984.0	17984.0	-0.05
179	15027.	0.	-14742.	48.	0.	-71.	0.	0.	0.	0.	0.	284.	-2601.	-66.	0.	0.	-251.	0.	0.	0.	2372.	0.	0.	-17731.8	17731.7	-0.04
180	14742.	0.	-14319.	71.	0.	-300.	0.	0.	0.	0.	0.	313.	-2565.	-66.	0.	0.	-251.	0.	0.	0.	2374.	0.	0.	-17501.1	17501.0	-0.03
181	14319.	0.	-13512.	300.	0.	-174.	0.	0.	0.	0.	0.	797.	-8268.	-229.	0.	0.	-1357.	0.	0.	0.	8125.	0.	0.	-23540.2	23540.1	-0.04
182	13512.	0.	-13210.	174.	0.	12.	0.	0.	0.	0.	0.	841.	-7829.	-231.	0.	0.	-1357.	0.	0.	0.	8088.	0.	0.	-22626.7	22626.7	-0.01
183	13210.	0.	-13231.	-12.	0.	160.	0.	0.	0.	0.	0.	838.	-7426.	-233.	0.	0.	-1357.	0.	0.	0.	8051.	0.	0.	-22259.0	22258.9	-0.02
184	13231.	0.	-13509.	-160.	0.	276.	0.	0.	0.	0.	0.	797.	-7057.	-235.	0.	0.	-1357.	0.	0.	0.	8013.	0.	0.	-22317.9	22317.8	-0.04
185	13509.	0.	-13988.	-276.	0.	365.	0.	0.	0.	0.	0.	727.	-6718.	-238.	0.	0.	-1357.	0.	0.	0.	7976.	0.	0.	-22577.3	22577.2	-0.09
186	13988.	0.	-14623.	-365.	0.	432.	0.	0.	0.	0.	0.	633.	-6408.	-240.	0.	0.	-1357.	0.	0.	0.	7939.	0.	0.	-22993.0	22992.9	-0.14
187	14623.	0.	-15374.	-432.	0.	481.	0.	0.	0.	0.	0.	522.	-6124.	-242.	0.	0.	-1357.	0.	0.	0.	7902.	0.	0.	-23528.1	23527.9	-0.19
188	15374.	0.	-16209.	-481.	0.	513.	0.	0.	0.	0.	0.	399.	-5863.	-243.	0.	0.	-1357.	0.	0.	0.	7865.	0.	0.	-24151.5	24151.3	-0.25
189	16209.	0.	-17100.	-513.	0.	533.	0.	0.	0.	0.	0.	268.	-5624.	-244.	0.	0.	-1357.	0.	0.	0.	7828.	0.	0.	-24837.6	24837.3	-0.30
190	17100.	0.	-18026.	-533.	0.	543.	0.	0.	0.	0.	0.	131.	-5405.	-244.	0.	0.	-1356.	0.	0.	0.	7790.	0.	0.	-25564.9	25564.5	-0.36
191	18026.	0.	-18969.	-543.	0.	544.	0.	0.	0.	0.	0.	-8.	-5204.	-244.	0.	0.	-1356.	0.	0.	0.	7753.	0.	0.	-26324.0	26323.6	-0.40
192	18969.	0.	-19913.	-544.	0.	538.	0.	0.	0.	0.	0.	-147.	-5019.	-244.	0.	0.	-1356.	0.	0.	0.	7716.	0.	0.	-27223.8	27223.3	-0.45
193	19913.	0.	-20848.	-538.	0.	527.	0.	0.	0.	0.	0.	-285.	-4851.	-242.	0.	0.	-1356.	0.	0.	0.	7679.	0.	0.	-28119.7	28119.2	-0.46
194	20848.	0.	-21762.	-527.	0.	511.	0.	0.	0.	0.	0.	-420.	-4696.	-240.	0.	0.	-1356.	0.	0.	0.	7642.	0.	0.	-29001.1	29000.6	-0.46
195	21762.	0.	-22650.	-511.	0.	492.	0.	0.	0.	0.	0.	-551.	-4554.	-238.	0.	0.	-1356.	0.	0.	0.	7605.	0.	0.	-29859.6	29859.1	-0.46
196	22650.	0.	-23504.	-492.	0.	470.	0.	0.	0.	0.	0.	-677.	-4424.	-236.	0.	0.	-1356.	0.	0.	0.	7568.	0.	0.	-30688.1	30687.6	-0.44
197	23504.	0.	-24320.	-470.	0.	446.	0.	0.	0.	0.	0.	-797.	-4304.	-233.	0.	0.	-1356.	0.	0.	0.	7530.	0.	0.	-31481.4	31480.9	-0.45
198	24320.	0.	-25095.	-446.	0.	421.	0.	0.	0.	0.	0.	-911.	-4195.	-231.	0.	0.	-1356.	0.	0.	0.	7493.	0.	0.	-32235.4	32234.9	-0.44

199	25095.	0.	-25827.	-421.	0.	395.	0.	0.	0.	0.	0.	-1019.	-4095.	-229.	0.	0.	-1356.	0.	0.	0.	7456.	0.	0.	-32947.4	32947.0	-0.45
200	25827.	0.	-26513.	-395.	0.	369.	0.	0.	0.	0.	0.	-1121.	-4003.	-228.	0.	0.	-1356.	0.	0.	0.	7419.	0.	0.	-33615.6	33615.2	-0.44
201	26513.	0.	-27155.	-369.	0.	343.	0.	0.	0.	0.	0.	-1215.	-3919.	-226.	0.	0.	-1356.	0.	0.	0.	7382.	0.	0.	-34238.9	34238.5	-0.43
202	27155.	0.	-27750.	-343.	0.	317.	0.	0.	0.	0.	0.	-1303.	-3841.	-224.	0.	0.	-1356.	0.	0.	0.	7345.	0.	0.	-34817.1	34816.7	-0.43
203	27750.	0.	-28301.	-317.	0.	292.	0.	0.	0.	0.	0.	-1384.	-3771.	-222.	0.	0.	-1355.	0.	0.	0.	7308.	0.	0.	-35350.1	35349.7	-0.41
204	28301.	0.	-28807.	-292.	0.	267.	0.	0.	0.	0.	0.	-1459.	-3706.	-220.	0.	0.	-1355.	0.	0.	0.	7271.	0.	0.	-35838.7	35838.3	-0.42
205	28807.	0.	-29270.	-267.	0.	242.	0.	0.	0.	0.	0.	-1527.	-3646.	-218.	0.	0.	-1355.	0.	0.	0.	7234.	0.	0.	-36283.7	36283.3	-0.42
206	29270.	0.	-29691.	-242.	0.	219.	0.	0.	0.	0.	0.	-1589.	-3592.	-217.	0.	0.	-1355.	0.	0.	0.	7196.	0.	0.	-36686.1	36685.7	-0.41
207	29691.	0.	-30071.	-219.	0.	196.	0.	0.	0.	0.	0.	-1645.	-3542.	-215.	0.	0.	-1355.	0.	0.	0.	7159.	0.	0.	-37047.2	37046.8	-0.41
208	30071.	0.	-30414.	-196.	0.	175.	0.	0.	0.	1.	0.	-1695.	-3496.	-214.	0.	0.	-1355.	0.	0.	0.	7122.	0.	0.	-37370.0	37369.6	-0.42
209	30414.	0.	-30718.	-175.	0.	155.	0.	0.	0.	0.	0.	-1740.	-3454.	-212.	0.	0.	-1355.	0.	0.	0.	7085.	0.	0.	-37654.2	37653.8	-0.40
210	30718.	0.	-30987.	-155.	0.	136.	0.	0.	0.	0.	0.	-1779.	-3415.	-210.	0.	0.	-1355.	0.	0.	0.	7048.	0.	0.	-37902.1	37901.7	-0.41
211	30987.	0.	-31222.	-136.	0.	117.	0.	0.	0.	0.	0.	-1814.	-3380.	-209.	0.	0.	-1355.	0.	0.	0.	7011.	0.	0.	-38115.6	38115.2	-0.40
212	31222.	0.	-31426.	-117.	0.	100.	0.	0.	0.	0.	0.	-1844.	-3348.	-207.	0.	0.	-1355.	0.	0.	0.	6974.	0.	0.	-38296.6	38296.2	-0.39
213	31426.	0.	-31599.	-100.	0.	83.	0.	0.	0.	0.	0.	-1870.	-3318.	-205.	0.	0.	-1355.	0.	0.	0.	6937.	0.	0.	-38446.6	38446.2	-0.39
214	31599.	0.	-31744.	-83.	0.	68.	0.	0.	0.	0.	0.	-1891.	-3291.	-204.	0.	0.	-1355.	0.	0.	0.	6900.	0.	0.	-38567.4	38567.0	-0.40
215	31744.	0.	-31862.	-68.	0.	53.	0.	0.	0.	0.	0.	-1908.	-3266.	-202.	0.	0.	-1355.	0.	0.	0.	6863.	0.	0.	-38660.7	38660.3	-0.38
216	31862.	0.	-31955.	-53.	0.	40.	0.	0.	0.	0.	0.	-1922.	-3243.	-200.	0.	0.	-1355.	0.	0.	0.	6826.	0.	0.	-38728.0	38727.6	-0.38
217	31955.	0.	-32024.	-40.	0.	27.	0.	0.	0.	0.	0.	-1932.	-3222.	-199.	0.	0.	-1354.	0.	0.	0.	6788.	0.	0.	-38770.9	38770.5	-0.39
218	32024.	0.	-32071.	-27.	0.	15.	0.	0.	0.	0.	0.	-1939.	-3203.	-197.	0.	0.	-1354.	0.	0.	0.	6751.	0.	0.	-38790.9	38790.5	-0.38
219	32071.	0.	-32097.	-15.	0.	4.	0.	0.	0.	0.	0.	-1943.	-3185.	-196.	0.	0.	-1354.	0.	0.	0.	6714.	0.	0.	-38789.5	38789.1	-0.37

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT
220	32097.	0.	-32104.	-4.	0.	-7.	0.	0.	0.	0.	0.	-1943.	-3169.	-194.	0.	0.	-1354.	0.	0.	0.	6677.	0.	0.	-38774.7	38774.3	-0.37
221	32104.	0.	-32092.	7.	0.	-16.	0.	0.	0.	0.	0.	-1942.	-3154.	-193.	0.	0.	-1354.	0.	0.	0.	6640.	0.	0.	-38750.9	38750.5	-0.38
222	32092.	0.	-32064.	16.	0.	-26.	0.	0.	0.	0.	0.	-1937.	-3140.	-191.	0.	0.	-1354.	0.	0.	0.	6603.	0.	0.	-38712.1	38711.7	-0.38
223	32064.	0.	-32019.	26.	0.	-34.	0.	0.	0.	0.	0.	-1931.	-3128.	-190.	0.	0.	-1354.	0.	0.	0.	6566.	0.	0.	-38655.6	38655.3	-0.36
224	32019.	0.	-31960.	34.	0.	-42.	0.	0.	0.	0.	0.	-1922.	-3116.	-188.	0.	0.	-1354.	0.	0.	0.	6529.	0.	0.	-38582.8	38582.4	-0.36
225	31960.	0.	-31887.	42.	0.	-49.	0.	0.	0.	0.	0.	-1911.	-3106.	-187.	0.	0.	-1354.	0.	0.	0.	6492.	0.	0.	-38494.5	38494.1	-0.36
226	31887.	0.	-31802.	49.	0.	-56.	0.	0.	0.	0.	0.	-1899.	-3096.	-185.	0.	0.	-1354.	0.	0.	0.	6455.	0.	0.	-38392.0	38391.7	-0.36
227	31802.	0.	-31705.	56.	0.	-62.	0.	0.	0.	0.	0.	-1884.	-3087.	-184.	0.	0.	-1354.	0.	0.	0.	6418.	0.	0.	-38276.3	38275.9	-0.35
228	31705.	0.	-31596.	62.	0.	-68.	0.	0.	0.	0.	0.	-1868.	-3079.	-183.	0.	0.	-1354.	0.	0.	0.	6381.	0.	0.	-38148.2	38147.9	-0.35
229	31596.	0.	-31478.	68.	0.	-74.	0.	0.	0.	0.	0.	-1851.	-3072.	-181.	0.	0.	-1354.	0.	0.	0.	6344.	0.	0.	-38008.7	38008.4	-0.34
230	31478.	0.	-31350.	74.	0.	-79.	0.	0.	0.	0.	0.	-1832.	-3065.	-180.	0.	0.	-1353.	0.	0.	0.	6307.	0.	0.	-37858.7	37858.3	-0.35
231	31350.	0.	-31213.	79.	0.	-83.	0.	0.	0.	0.	0.	-1811.	-3059.	-178.	0.	0.	-1353.	0.	0.	0.	6270.	0.	0.	-37698.8	37698.4	-0.34
232	31213.	0.	-31068.	83.	0.	-88.	0.	0.	0.	0.	0.	-1790.	-3053.	-177.	0.	0.	-1353.	0.	0.	0.	6233.	0.	0.	-37529.6	37529.3	-0.34
233	31068.	0.	-30916.	88.	0.	-92.	0.	0.	0.	0.	0.	-1767.	-3048.	-176.	0.	0.	-1353.	0.	0.	0.	6196.	0.	0.	-37352.0	37351.7	-0.34
234	30916.	0.	-30756.	92.	0.	-95.	0.	0.	0.	0.	0.	-1744.	-3043.	-174.	0.	0.	-1353.	0.	0.	0.	6159.	0.	0.	-37166.6	37166.3	-0.33
235	30756.	0.	-30591.	95.	0.	-99.	0.	0.	0.	0.	0.	-1719.	-3039.	-173.	0.	0.	-1353.	0.	0.	0.	6122.	0.	0.	-36973.9	36973.6	-0.33
236	30591.	0.	-30419.	99.	0.	-102.	0.	0.	0.	0.	0.	-1694.	-3035.	-172.	0.	0.	-1353.	0.	0.	0.	6085.	0.	0.	-36774.5	36774.2	-0.33
237	30419.	0.	-30242.	102.	0.	-105.	0.	0.	0.	0.	0.	-1668.	-3031.	-171.	0.	0.	-1353.	0.	0.	0.	6048.	0.	0.	-36569.0	36568.7	-0.32
238	30242.	0.	-30059.	105.	0.	-108.	0.	0.	0.	0.	0.	-1641.	-3028.	-169.	0.	0.	-1353.	0.	0.	0.	6011.	0.	0.	-36357.6	36357.3	-0.33
239	30059.	0.	-29872.	108.	0.	-110.	0.	0.	0.	0.	0.	-1613.	-3024.	-168.	0.	0.	-1353.	0.	0.	0.	5974.	0.	0.	-36140.9	36140.6	-0.32
240	29872.	0.	-29681.	110.	0.	-113.	0.	0.	0.	0.	0.	-1585.	-3022.	-167.	0.	0.	-1353.	0.	0.	0.	5937.	0.	0.	-35919.3	35919.0	-0.32
241	29681.	0.	-29485.	113.	0.	-115.	0.	0.	0.	0.	0.	-1556.	-3019.	-165.	0.	0.	-1353.	0.	0.	0.	5900.	0.	0.	-35693.2	35692.9	-0.31
242	29485.	0.	-29286.	115.	0.	-117.	0.	0.	0.	0.	0.	-1527.	-3017.	-164.	0.	0.	-1353.	0.	0.	0.	5863.	0.	0.	-35462.9	35462.6	-0.31
243	29286.	0.	-29084.	117.	0.	-118.	0.	0.	0.	0.	0.	-1497.	-3014.	-163.	0.	0.	-1353.	0.	0.	0.	5826.	0.	0.	-35228.8	35228.4	-0.31
244	29084.	0.	-28878.	118.	0.	-120.	0.	0.	0.	0.	0.	-1466.	-3012.	-162.	0.	0.	-1352.	0.	0.	0.	5789.	0.	0.	-34991.1	34990.7	-0.31
245	28878.	0.	-28669.	120.	0.	-122.	0.	0.	0.	0.	0.	-1436.	-3011.	-161.	0.	0.	-1352.	0.	0.	0.	5752.	0.	0.	-34750.0	34749.7	-0.31

246	28669.	0.	-28458.	122.	0.	-123.	0.	0.	0.	0.	0.	-1404.	-3009.	-159.	0.	0.	-1352.	0.	0.	0.	5715.	0.	0.	-34505.9	34505.6	-0.30				
247	28458.	0.	-28244.	123.	0.	-124.	0.	0.	0.	0.	0.	-1373.	-3007.	-158.	0.	0.	-1352.	0.	0.	0.	5678.	0.	0.	-34259.0	34258.7	-0.29				
248	28244.	0.	-28028.	124.	0.	-126.	0.	0.	0.	0.	0.	-1341.	-3006.	-157.	0.	0.	-1352.	0.	0.	0.	5641.	0.	0.	-34009.5	34009.2	-0.30				
249	28028.	0.	-27810.	126.	0.	-127.	0.	0.	0.	0.	0.	-1309.	-3005.	-156.	0.	0.	-1352.	0.	0.	0.	5604.	0.	0.	-33757.6	33757.3	-0.30				
250	27810.	0.	-27590.	127.	0.	-128.	0.	0.	0.	0.	0.	-1276.	-3003.	-155.	0.	0.	-1352.	0.	0.	0.	5567.	0.	0.	-33503.6	33503.3	-0.29				
251	27590.	0.	-27368.	128.	0.	-129.	0.	0.	0.	0.	0.	-1243.	-3002.	-154.	0.	0.	-1352.	0.	0.	0.	5530.	0.	0.	-33247.5	33247.2	-0.29				
252	27368.	0.	-27144.	129.	0.	-130.	0.	0.	0.	0.	0.	-1210.	-3001.	-152.	0.	0.	-1352.	0.	0.	0.	5493.	0.	0.	-32989.5	32989.2	-0.29				
253	27144.	0.	-26919.	130.	0.	-130.	0.	0.	0.	0.	0.	-1177.	-3000.	-151.	0.	0.	-1352.	0.	0.	0.	5456.	0.	0.	-32729.7	32729.5	-0.29				
254	26919.	0.	-26692.	130.	0.	-131.	0.	0.	0.	0.	0.	-1144.	-2999.	-150.	0.	0.	-1352.	0.	0.	0.	5419.	0.	0.	-32468.4	32468.1	-0.29				
255	26692.	0.	-26464.	131.	0.	-132.	0.	0.	0.	0.	0.	-1110.	-2999.	-149.	0.	0.	-1352.	0.	0.	0.	5382.	0.	0.	-32205.6	32205.3	-0.28				
256	26464.	0.	-26235.	132.	0.	-133.	0.	0.	0.	0.	0.	-1076.	-2998.	-148.	0.	0.	-1352.	0.	0.	0.	5345.	0.	0.	-31941.5	31941.2	-0.28				
257	26235.	0.	-26005.	133.	0.	-133.	0.	0.	0.	0.	0.	-1042.	-2997.	-147.	0.	0.	-1352.	0.	0.	0.	5308.	0.	0.	-31676.2	31675.9	-0.28				
258	26005.	0.	-25774.	133.	0.	-134.	0.	0.	0.	0.	0.	-1008.	-2997.	-146.	0.	0.	-1351.	0.	0.	0.	5271.	0.	0.	-31409.5	31409.3	-0.28				
259	25774.	0.	-25542.	134.	0.	-134.	0.	0.	0.	0.	0.	-974.	-2996.	-145.	0.	0.	-1351.	0.	0.	0.	5234.	0.	0.	-31141.9	31141.6	-0.28				
260	25542.	0.	-25308.	134.	0.	-135.	0.	0.	0.	0.	0.	-939.	-2996.	-144.	0.	0.	-1351.	0.	0.	0.	5197.	0.	0.	-30873.3	30873.0	-0.27				
261	25308.	0.	-25074.	135.	0.	-136.	0.	0.	0.	0.	0.	-905.	-2995.	-143.	0.	0.	-1351.	0.	0.	0.	5160.	0.	0.	-30603.7	30603.5	-0.28				
262	25074.	0.	-24838.	136.	0.	-137.	0.	0.	0.	0.	0.	-870.	-2995.	-142.	0.	0.	-1351.	0.	0.	0.	5123.	0.	0.	-30333.4	30333.1	-0.27				
263	24838.	0.	-24601.	137.	0.	-139.	0.	0.	0.	0.	0.	-835.	-2995.	-142.	0.	0.	-1351.	0.	0.	0.	5086.	0.	0.	-30062.0	30061.8	-0.27				
264	24601.	0.	-24368.	139.	0.	-137.	0.	0.	0.	5.	0.	-799.	-2995.	-143.	0.	0.	-1351.	0.	0.	0.	5049.	0.	0.	-29794.2	29793.9	-0.27				
265	24368.	0.	-24130.	137.	0.	-137.	0.	0.	0.	0.	0.	-764.	-2995.	-142.	0.	0.	-1351.	0.	0.	0.	5012.	0.	0.	-29518.2	29518.0	-0.27				
266	24130.	0.	-23891.	137.	0.	-137.	0.	0.	0.	0.	0.	-729.	-2994.	-140.	0.	0.	-1351.	0.	0.	0.	4975.	0.	0.	-29242.6	29242.4	-0.26				
267	23891.	0.	-23653.	137.	0.	-137.	0.	0.	0.	0.	0.	-694.	-2994.	-139.	0.	0.	-1351.	0.	0.	0.	4939.	0.	0.	-28967.2	28966.9	-0.26				
268	23653.	0.	-23414.	137.	0.	-137.	0.	0.	0.	0.	0.	-658.	-2994.	-137.	0.	0.	-1351.	0.	0.	0.	4902.	0.	0.	-28691.8	28691.6	-0.26				
269	23414.	0.	-23176.	137.	0.	-137.	0.	0.	0.	0.	0.	-623.	-2993.	-136.	0.	0.	-1351.	0.	0.	0.	4865.	0.	0.	-28416.5	28416.2	-0.26				
270	23176.	0.	-22937.	137.	0.	-138.	0.	0.	0.	0.	0.	-588.	-2993.	-135.	0.	0.	-1351.	0.	0.	0.	4828.	0.	0.	-28141.0	28140.7	-0.26				
271	22937.	0.	-22698.	138.	0.	-138.	0.	0.	0.	0.	0.	-553.	-2993.	-134.	0.	0.	-1350.	0.	0.	0.	4791.	0.	0.	-27865.4	27865.1	-0.25				
272	22698.	0.	-22459.	138.	0.	-138.	0.	0.	0.	0.	0.	-517.	-2993.	-133.	0.	0.	-1350.	0.	0.	0.	4754.	0.	0.	-27589.6	27589.4	-0.25				
273	22459.	0.	-22219.	138.	0.	-138.	0.	0.	0.	0.	0.	-482.	-2992.	-132.	0.	0.	-1350.	0.	0.	0.	4717.	0.	0.	-27313.7	27313.5	-0.25				
274	22219.	0.	-21980.	138.	0.	-138.	0.	0.	0.	0.	0.	-447.	-2992.	-130.	0.	0.	-1350.	0.	0.	0.	4680.	0.	0.	-27037.6	27037.3	-0.25				
275	21980.	0.	-21740.	138.	0.	-138.	0.	0.	0.	0.	0.	-412.	-2992.	-129.	0.	0.	-1350.	0.	0.	0.	4643.	0.	0.	-26761.2	26761.0	-0.24				
276	21740.	0.	-21500.	138.	0.	-138.	0.	0.	0.	0.	0.	-376.	-2992.	-128.	0.	0.	-1350.	0.	0.	0.	4606.	0.	0.	-26484.6	26484.3	-0.24				
277	21500.	0.	-21259.	138.	0.	-138.	0.	0.	0.	0.	0.	-341.	-2992.	-127.	0.	0.	-1350.	0.	0.	0.	4569.	0.	0.	-26207.7	26207.5	-0.24				
278	21259.	0.	-21019.	138.	0.	-139.	0.	0.	0.	0.	0.	-305.	-2992.	-126.	0.	0.	-1350.	0.	0.	0.	4533.	0.	0.	-25930.6	25930.4	-0.24				

DISSOLVED OXYGEN LOADING FOR REACH 1: Grassy Lake

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N BKGD	NCM BOD1	SOD ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
279	21019.	0.	-20778.	139.	0.	-139.	0.	0.	0.	0.	-270.	-2992.	-125.	0.	0.	-1350.	0.	0.	4496.	0.	0.	-25653.3	25653.1	-0.24		
280	20778.	0.	-20537.	139.	0.	-139.	0.	0.	0.	0.	-234.	-2991.	-124.	0.	0.	-1350.	0.	0.	4459.	0.	0.	-25375.8	25375.6	-0.23		
281	20537.	0.	-20296.	139.	0.	-139.	0.	0.	0.	0.	-199.	-2991.	-123.	0.	0.	-1350.	0.	0.	4422.	0.	0.	-25098.0	25097.8	-0.23		
282	20296.	0.	-20055.	139.	0.	-139.	0.	0.	0.	0.	-163.	-2991.	-122.	0.	0.	-1350.	0.	0.	4385.	0.	0.	-24820.1	24819.9	-0.22		
283	20055.	0.	-19814.	139.	0.	-139.	0.	0.	0.	0.	-127.	-2991.	-121.	0.	0.	-1350.	0.	0.	4348.	0.	0.	-24542.1	24541.9	-0.22		
284	19814.	0.	-19572.	139.	0.	-139.	0.	0.	0.	0.	-92.	-2991.	-120.	0.	0.	-1350.	0.	0.	4311.	0.	0.	-24264.0	24263.8	-0.21		
285	19572.	0.	-19331.	139.	0.	-139.	0.	0.	0.	0.	-56.	-2991.	-119.	0.	0.	-1349.	0.	0.	4274.	0.	0.	-23985.9	23985.7	-0.20		
286	19331.	0.	-19089.	139.	0.	-139.	0.	0.	0.	0.	-21.	-2991.	-118.	0.	0.	-1349.	0.	0.	4237.	0.	0.	-23707.6	23707.4	-0.20		
287	19089.	0.	-18847.	139.	0.	-139.	0.	0.	0.	0.	15.	-2991.	-117.	0.	0.	-1349.	0.	0.	4201.	0.	0.	-23444.1	23443.9	-0.19		
288	18847.	0.	-18605.	139.	0.	-139.	0.	0.	0.	0.	51.	-2991.	-116.	0.	0.	-1349.	0.	0.	4164.	0.	0.	-23201.2	23201.0	-0.19		
289	18605.	0.	-18363.	139.	0.	-139.	0.	0.	0.	0.	86.	-2991.	-115.	0.	0.	-1349.	0.	0.	4127.	0.	0.	-22958.1	22958.0	-0.17		
290	18363.	0.	-18121.	139.	0.	-139.	0.	0.	0.	0.	122.	-2991.	-115.	0.	0.	-1349.	0.	0.	4090.	0.	0.	-22715.0	22714.8	-0.17		
291	18121.	0.	-17879.	139.	0.	-139.	0.	0.	0.	0.	158.	-2991.	-114.	0.	0.	-1349.	0.	0.	4053.	0.	0.	-22471.6	22471.5	-0.16		
292	17879.	0.	-17638.	139.	0.	-138.	0.	0.	0.	0.	193.	-2990.	-113.	0.	0.	-1349.	0.	0.	4016.	0.	0.	-22228.0	22227.9	-0.15		

293	17638.	0.	-17399.	138.	0.	-134.	0.	0.	0.	0.	0.	228.	-2990.	-112.	0.	0.	-1349.	0.	0.	0.	3979.	0.	0.	-21983.9	21983.7	-0.14
294	17399.	0.	-17166.	134.	0.	-123.	0.	0.	0.	0.	0.	263.	-2989.	-111.	0.	0.	-1349.	0.	0.	0.	3943.	0.	0.	-21738.5	21738.4	-0.14
295	17166.	0.	-16952.	123.	0.	-92.	0.	0.	0.	0.	0.	294.	-2986.	-110.	0.	0.	-1349.	0.	0.	0.	3906.	0.	0.	-21489.7	21489.6	-0.13
296	16952.	0.	-16792.	92.	0.	-3.	0.	0.	0.	0.	0.	318.	-2977.	-110.	0.	0.	-1349.	0.	0.	0.	3869.	0.	0.	-21231.5	21231.3	-0.13
297	16792.	0.	-16782.	3.	0.	-1.	0.	0.	0.	0.	0.	60.	-627.	-19.	0.	0.	-67.	0.	0.	0.	640.	0.	0.	-17496.0	17496.0	-0.02
298	16782.	0.	-16762.	1.	0.	-1.	0.	0.	0.	0.	0.	61.	-613.	-19.	0.	0.	-67.	0.	0.	0.	617.	0.	0.	-17461.3	17461.3	-0.03
299	16762.	0.	-16733.	1.	0.	-2.	0.	0.	0.	0.	0.	63.	-599.	-19.	0.	0.	-67.	0.	0.	0.	593.	0.	0.	-17418.8	17418.7	-0.02
300	16733.	0.	-16696.	2.	0.	-2.	0.	0.	0.	0.	0.	64.	-586.	-18.	0.	0.	-66.	0.	0.	0.	570.	0.	0.	-17368.4	17368.4	-0.02
301	16696.	0.	-16650.	2.	0.	-3.	0.	0.	0.	0.	0.	66.	-573.	-18.	0.	0.	-66.	0.	0.	0.	547.	0.	0.	-17310.2	17310.2	-0.02
302	16650.	0.	-16597.	3.	0.	-3.	0.	0.	0.	0.	0.	68.	-560.	-18.	0.	0.	-66.	0.	0.	0.	524.	0.	0.	-17244.3	17244.3	-0.02
303	16597.	0.	-16536.	3.	0.	-3.	0.	0.	0.	0.	0.	70.	-548.	-18.	0.	0.	-66.	0.	0.	0.	501.	0.	0.	-17170.5	17170.5	-0.03
304	16536.	0.	-16466.	3.	0.	-4.	0.	0.	0.	0.	0.	72.	-535.	-18.	0.	0.	-65.	0.	0.	0.	478.	0.	0.	-17089.0	17089.0	-0.02
305	16466.	0.	-16389.	4.	0.	-4.	0.	0.	0.	0.	0.	75.	-524.	-18.	0.	0.	-65.	0.	0.	0.	455.	0.	0.	-16999.8	16999.8	-0.02
306	16389.	0.	-16303.	4.	0.	-5.	0.	0.	0.	0.	0.	78.	-512.	-18.	0.	0.	-65.	0.	0.	0.	432.	0.	0.	-16902.9	16902.8	-0.02
307	16303.	0.	-16210.	5.	0.	-5.	0.	0.	0.	0.	0.	80.	-501.	-18.	0.	0.	-65.	0.	0.	0.	410.	0.	0.	-16798.3	16798.3	-0.03
308	16210.	0.	-16109.	5.	0.	-5.	0.	0.	0.	0.	0.	84.	-490.	-18.	0.	0.	-64.	0.	0.	0.	387.	0.	0.	-16686.1	16686.1	-0.02
309	16109.	0.	-16000.	5.	0.	-6.	0.	0.	0.	0.	0.	87.	-479.	-18.	0.	0.	-64.	0.	0.	0.	365.	0.	0.	-16566.4	16566.3	-0.02
310	16000.	0.	-15883.	6.	0.	-6.	0.	0.	0.	0.	0.	91.	-469.	-17.	0.	0.	-64.	0.	0.	0.	343.	0.	0.	-16439.1	16439.1	-0.02
311	15883.	0.	-15758.	6.	0.	-7.	0.	0.	0.	0.	0.	95.	-459.	-17.	0.	0.	-64.	0.	0.	0.	321.	0.	0.	-16304.5	16304.5	-0.02
312	15758.	0.	-15626.	7.	0.	-7.	0.	0.	0.	0.	0.	99.	-449.	-17.	0.	0.	-64.	0.	0.	0.	299.	0.	0.	-16162.5	16162.4	-0.02
313	15626.	0.	-15486.	7.	0.	-7.	0.	0.	0.	0.	0.	103.	-439.	-17.	0.	0.	-63.	0.	0.	0.	277.	0.	0.	-16013.1	16013.1	-0.02
314	15486.	0.	-15339.	7.	0.	-8.	0.	0.	0.	0.	0.	107.	-429.	-17.	0.	0.	-63.	0.	0.	0.	256.	0.	0.	-15856.6	15856.5	-0.02
315	15339.	0.	-15185.	8.	0.	-8.	0.	0.	0.	0.	0.	112.	-420.	-17.	0.	0.	-63.	0.	0.	0.	234.	0.	0.	-15692.8	15692.8	-0.02
316	15185.	0.	-15023.	8.	0.	-8.	0.	0.	0.	0.	0.	117.	-411.	-17.	0.	0.	-63.	0.	0.	0.	213.	0.	0.	-15522.0	15522.0	-0.02
317	15023.	0.	-14854.	8.	0.	-9.	0.	0.	0.	0.	0.	122.	-402.	-17.	0.	0.	-62.	0.	0.	0.	191.	0.	0.	-15344.2	15344.2	-0.02
318	14854.	0.	-14678.	9.	0.	-9.	0.	0.	0.	0.	0.	127.	-394.	-17.	0.	0.	-62.	0.	0.	0.	170.	0.	0.	-15159.5	15159.4	-0.02
319	14678.	0.	-14495.	9.	0.	-9.	0.	0.	0.	0.	0.	132.	-385.	-17.	0.	0.	-62.	0.	0.	0.	149.	0.	0.	-14967.9	14967.9	-0.02
320	14495.	0.	-14305.	9.	0.	-10.	0.	0.	0.	0.	0.	138.	-377.	-16.	0.	0.	-62.	0.	0.	0.	128.	0.	0.	-14769.6	14769.5	-0.02
321	14305.	0.	-14108.	10.	0.	-10.	0.	0.	0.	0.	0.	143.	-369.	-16.	0.	0.	-61.	0.	0.	0.	107.	0.	0.	-14564.5	14564.5	-0.02
322	14108.	0.	-13904.	10.	0.	-10.	0.	0.	0.	0.	0.	149.	-361.	-16.	0.	0.	-61.	0.	0.	0.	86.	0.	0.	-14352.9	14352.9	-0.02
323	13904.	0.	-13693.	10.	0.	-11.	0.	0.	0.	0.	0.	155.	-354.	-16.	0.	0.	-61.	0.	0.	0.	66.	0.	0.	-14134.8	14134.8	-0.01
324	13693.	0.	-13471.	11.	0.	-17.	0.	0.	0.	0.	0.	161.	-345.	-16.	0.	0.	-61.	0.	0.	0.	45.	0.	0.	-13910.5	13910.5	-0.01
325	13471.	0.	-13126.	17.	0.	-159.	0.	0.	0.	0.	0.	171.	-321.	-17.	0.	0.	-61.	0.	0.	0.	25.	0.	0.	-13683.9	13683.9	-0.01

DISSOLVED OXYGEN LOADING FOR REACH 2: Fourmile Bayou Oxbow

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	ALG PHOT	ALG OUT	MAC IN	TOT	TOT
56	1723.	0.	-1678.	0.	0.	-9.	0.	0.	0.	0.	4.	-212.	-5.	0.	0.	-15.	0.	0.	0.	192.	0.	0.	-1919.2	1919.2	-0.01
57	1678.	0.	-1647.	9.	0.	-8.	0.	0.	0.	0.	5.	-206.	-5.	0.	0.	-15.	0.	0.	0.	189.	0.	0.	-1880.5	1880.5	-0.01
58	1647.	0.	-1619.	8.	0.	-7.	0.	0.	0.	0.	5.	-200.	-5.	0.	0.	-15.	0.	0.	0.	185.	0.	0.	-1845.8	1845.8	-0.01
59	1619.	0.	-1595.	7.	0.	-6.	0.	0.	0.	0.	6.	-194.	-5.	0.	0.	-15.	0.	0.	0.	182.	0.	0.	-1814.7	1814.7	-0.01
60	1595.	0.	-1574.	6.	0.	-5.	0.	0.	0.	0.	7.	-188.	-5.	0.	0.	-15.	0.	0.	0.	179.	0.	0.	-1786.9	1786.9	-0.01
61	1574.	0.	-1556.	5.	0.	-5.	0.	0.	0.	0.	7.	-182.	-5.	0.	0.	-14.	0.	0.	0.	175.	0.	0.	-1762.2	1762.2	-0.01
62	1556.	0.	-1540.	5.	0.	-4.	0.	0.	0.	0.	8.	-177.	-5.	0.	0.	-14.	0.	0.	0.	172.	0.	0.	-1740.2	1740.2	0.00
63	1540.	0.	-1526.	4.	0.	-3.	0.	0.	0.	0.	8.	-172.	-5.	0.	0.	-14.	0.	0.	0.	169.	0.	0.	-1720.8	1720.8	0.00
64	1526.	0.	-1514.	3.	0.	-3.	0.	0.	0.	0.	9.	-167.	-5.	0.	0.	-14.	0.	0.	0.	165.	0.	0.	-1703.6	1703.5	0.00
65	1514.	0.	-1505.	3.	0.	-2.	0.	0.	0.	0.	9.	-162.	-5.	0.	0.	-14.	0.	0.	0.	162.	0.	0.	-1688.4	1688.4	0.00
66	1505.	0.	-1496.	2.	0.	-2.	0.	0.	0.	0.	9.	-157.	-5.	0.	0.	-14.	0.	0.	0.	159.	0.	0.	-1675.0	1675.0	0.00
67	1496.	0.	-1489.	2.	0.	-2.	0.	0.	0.	0.	10.	-153.	-5.	0.	0.	-14.	0.	0.	0.	155.	0.	0.	-1663.3	1663.2	0.00
68	1489.	0.	-1484.	2.	0.	-1.	0.	0.	0.	0.	10.	-149.	-5.	0.	0.	-14.	0.	0.	0.	152.	0.	0.	-1652.9	1652.9	0.00
69	1484.	0.	-1479.	1.	0.	-1.	0.	0.	0.	0.	10.	-144.	-5.	0.	0.	-14.	0.	0.	0.	149.	0.	0.	-1643.8	1643.8	0.00

70	1479.	0.	-1475.	1.	0.	-1.	0.	0.	0.	0.	0.	10.	-140.	-5.	0.	0.	-14.	0.	0.	0.	145.	0.	0.	-1635.8	1635.8	0.00
71	1475.	0.	-1472.	1.	0.	-1.	0.	0.	0.	0.	0.	10.	-137.	-5.	0.	0.	-14.	0.	0.	0.	142.	0.	0.	-1628.6	1628.6	0.00
72	1472.	0.	-1470.	1.	0.	-1.	0.	0.	0.	0.	0.	10.	-133.	-5.	0.	0.	-14.	0.	0.	0.	139.	0.	0.	-1622.2	1622.2	0.00
73	1470.	0.	-1468.	1.	0.	-1.	0.	0.	0.	0.	0.	10.	-129.	-5.	0.	0.	-14.	0.	0.	0.	136.	0.	0.	-1616.5	1616.5	0.00
74	1468.	0.	-1466.	1.	0.	0.	0.	0.	0.	0.	0.	10.	-126.	-5.	0.	0.	-14.	0.	0.	0.	132.	0.	0.	-1611.2	1611.2	0.00
75	1466.	0.	-1465.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-122.	-5.	0.	0.	-14.	0.	0.	0.	129.	0.	0.	-1606.2	1606.2	0.00
76	1465.	0.	-1463.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-119.	-5.	0.	0.	-14.	0.	0.	0.	126.	0.	0.	-1601.5	1601.5	0.00
77	1463.	0.	-1462.	0.	0.	0.	0.	0.	0.	0.	0.	11.	-116.	-5.	0.	0.	-14.	0.	0.	0.	123.	0.	0.	-1596.9	1596.9	0.00
78	1462.	0.	-1460.	0.	0.	-1.	0.	0.	0.	0.	0.	11.	-113.	-5.	0.	0.	-14.	0.	0.	0.	119.	0.	0.	-1592.4	1592.4	0.00
79	1460.	0.	-1459.	1.	0.	-1.	0.	0.	0.	0.	0.	11.	-110.	-5.	0.	0.	-14.	0.	0.	0.	116.	0.	0.	-1587.7	1587.7	0.00
80	1459.	0.	-1457.	1.	0.	-1.	0.	0.	0.	0.	0.	11.	-107.	-5.	0.	0.	-14.	0.	0.	0.	113.	0.	0.	-1582.9	1582.9	0.00
81	1457.	0.	-1454.	1.	0.	-1.	0.	0.	0.	0.	0.	11.	-104.	-5.	0.	0.	-14.	0.	0.	0.	110.	0.	0.	-1577.9	1577.9	0.00
82	1454.	0.	-1451.	1.	0.	-1.	0.	0.	0.	0.	0.	11.	-102.	-5.	0.	0.	-14.	0.	0.	0.	106.	0.	0.	-1572.5	1572.5	0.00
83	1451.	0.	-1448.	1.	0.	-1.	0.	0.	0.	0.	0.	11.	-99.	-5.	0.	0.	-14.	0.	0.	0.	103.	0.	0.	-1566.8	1566.8	0.00
84	1448.	0.	-1444.	1.	0.	-1.	0.	0.	0.	0.	0.	11.	-96.	-5.	0.	0.	-14.	0.	0.	0.	100.	0.	0.	-1560.6	1560.6	0.00
85	1444.	0.	-1440.	1.	0.	-2.	0.	0.	0.	0.	0.	11.	-94.	-5.	0.	0.	-14.	0.	0.	0.	97.	0.	0.	-1553.8	1553.8	0.00
86	1440.	0.	-1435.	2.	0.	-2.	0.	0.	0.	0.	0.	12.	-92.	-4.	0.	0.	-14.	0.	0.	0.	94.	0.	0.	-1546.5	1546.5	0.00
87	1435.	0.	-1429.	2.	0.	-2.	0.	0.	0.	0.	0.	12.	-89.	-4.	0.	0.	-14.	0.	0.	0.	90.	0.	0.	-1538.6	1538.6	0.00
88	1429.	0.	-1422.	2.	0.	-2.	0.	0.	0.	0.	0.	12.	-87.	-4.	0.	0.	-14.	0.	0.	0.	87.	0.	0.	-1530.0	1530.0	0.00
89	1422.	0.	-1415.	2.	0.	-2.	0.	0.	0.	0.	0.	12.	-85.	-4.	0.	0.	-14.	0.	0.	0.	84.	0.	0.	-1520.6	1520.6	0.00
90	1415.	0.	-1406.	2.	0.	-3.	0.	0.	0.	0.	0.	13.	-83.	-4.	0.	0.	-14.	0.	0.	0.	81.	0.	0.	-1510.5	1510.5	0.00
91	1406.	0.	-1397.	3.	0.	-3.	0.	0.	0.	0.	0.	13.	-81.	-4.	0.	0.	-14.	0.	0.	0.	78.	0.	0.	-1499.6	1499.6	0.00
92	1397.	0.	-1387.	3.	0.	-3.	0.	0.	0.	0.	0.	13.	-79.	-4.	0.	0.	-14.	0.	0.	0.	75.	0.	0.	-1487.8	1487.8	0.00
93	1387.	0.	-1376.	3.	0.	-4.	0.	0.	0.	0.	0.	14.	-78.	-4.	0.	0.	-14.	0.	0.	0.	71.	0.	0.	-1475.2	1475.2	0.00
94	1376.	0.	-1363.	4.	0.	-4.	0.	0.	0.	0.	0.	14.	-76.	-4.	0.	0.	-14.	0.	0.	0.	68.	0.	0.	-1461.7	1461.7	0.00
95	1363.	0.	-1350.	4.	0.	-5.	0.	0.	0.	0.	0.	14.	-75.	-4.	0.	0.	-14.	0.	0.	0.	65.	0.	0.	-1447.1	1447.1	0.00
96	1350.	0.	-1334.	5.	0.	-3.	0.	0.	0.	0.	0.	15.	-76.	-4.	0.	0.	-14.	0.	0.	0.	62.	0.	0.	-1431.0	1431.0	0.00
97	1334.	0.	-1326.	3.	0.	20.	0.	0.	0.	0.	0.	15.	-87.	-4.	0.	0.	-14.	0.	0.	0.	59.	0.	0.	-1431.3	1431.3	0.00

LA-QUAL Model for Lake Verret & Grassy Lake (subsegment 120204)
TMDL Simulation for Lake Verret and Grassy Lake model
INPUT/OUTPUT LOADING SUMMARY

	FLOW	DO	BOD#1	BOD#2	ORG-N	NH3-N	NO3-N	PHOS	CHL A	NCM
	m³/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d		
HEADWATER FLOW	23.167	13436.1	47544.5	0.0	3227.9	200.2	80.1	0.0	0.0	0.0
INCREMENTAL INFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCREMENTAL OUTFLOW	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WASTELOADS	10.049	6595.1	14612.8	0.0	2084.1	96.3	176.1	0.0	0.0	0.0
WITHDRAWLS	-2.933	-1742.2	-5485.0	0.0	-480.1	-22.3	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-30.282	-13125.9	-17108.3	0.0	-2519.5	-157.9	0.0	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		-159.4	-979.2	0.0	-248.9	10.2	284.3	0.0	0.0	0.0
DISPERSION THRU HDWTR BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	538199.4	0.0	3690.0					0.0
NATURAL REAERATION		-103632.1								
DAM REAERATION		0.0								
BACKGROUND SOD		-180271.0								
BOD#1 DECAY		-576784.4	-576784.4							
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			-5753.5	5753.5				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-25502.8				-5889.8	5889.8			

BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		881144.9				0.0	-44057.3	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		0.0								0.0
NCM SETTLING		0.0								0.0
TOTAL INPUTS	33.216	901176.0	600356.7	0.0	9002.0	6060.3	6430.2	0.0	0.0	0.0
TOTAL OUTPUTS	-33.216	-901217.8	-600357.0	0.0	-9002.0	-6070.0	-44057.3	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	-41.8	-0.3	0.0	0.0	-9.7	-37627.0	0.0	0.0	0.0

.....EXECUTION COMPLETED

TMDL output file for subsegment 120604

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LA-QUAL Version 8.11
Louisiana Department of Environmental Quality
Input file is D:\LA TMDL 2006\Additional\TO95\TT_Models\0608 MT\0608 MT - Blue\TMDL\Blue_tmdl_0608.txt
Output produced at 09:54 on 06/22/2008
$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$
CARD TYPE      CONTROL TITLES
TITLE01        LA-QUAL TMDL for Bayou Blue
TITLE02
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  NO   CONSERVATIVE MATERIAL
MODOPT04  NO   CONSERVATIVE MATERIAL II
MODOPT05  YES  DISS
MODOPT06  YES  BIOC
MODOPT07  YES  NITR
MODOPT08  NO   PHOS
MODOPT09  NO   CHLO
MODOPT10  NO   MACR
MODOPT11  NO   COLI
MODOPT12  NO   NONC
ENDATA02
$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$
CARD TYPE      DESCRIPTION OF CONSTANT                VALUE
PROGRAM        HYDRAULIC CALCULATION METHOD     =       2.00000 (widths and depths)
PROGRAM        MAXIMUM ITERATION LIMIT          =     500.00000
PROGRAM        ALGAE OXYGEN PROD                =       0.02600 mg O/ug chl a/day
PROGRAM        WIND                       =       1.30000 meters/sec
PROGRAM        TIDE  HEIGHT               =       0.80000 meters
PROGRAM        DISPERSION EQUATION        =       1.00000 (values entered as a constant)
PROGRAM        HEADWATER EXCHANGE RATIO         =       1.00000
ENDATA03
$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$
 CARD TYPE    RATE CODE    THETA VALUE
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
ENDATA06
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$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$
CARD TYPE      DESCRIPTION OF CONSTANT                    VALUE
ENDATA07
$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
                                      BEGIN       END    ELEM   REACH    ELEMS  BEGIN   END
CARD TYPE  REACH  ID  NAME                          REACH     REACH  LENGTH  LENGTH   PER RCH  ELEM  ELEM
                                        km         km      km      km             NUM    NUM
REACH ID     1   BB  BayouBlue#1                  20.20  TO   3.70  0.1000   16.50    165      1   165
REACH ID     2   IC  ICWWtoBlue                   1.40  TO   0.00  0.1000    1.40     14    166   179
REACH ID     3   BB  BayouBlue#2                   3.70  TO   0.00  0.1000    3.70     37    180   216
ENDATA08
$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID      WIDTH      WIDTH      WIDTH      DEPTH      DEPTH      DEPTH     SLOPE    MANNINGS
                  "A"        "B"        "C"        "D"        "E"        "F"               "N"
HYDR-1       1   BB      0.000      0.000     10.000      0.000      0.000      0.500    0.00000   0.000
HYDR-1       2   IC      0.000      0.000     44.000      0.000      0.000      1.400    0.00000   0.000
HYDR-1       3   BB      0.000      0.000     65.500      0.000      0.000      0.900    0.00000   0.000
ENDATA09
$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$
CARD TYPE  REACH  ID    TIDAL    DISPERSION    DISPERSION    DISPERSION    DISPERSION
                  RANGE       "A"         "B"         "C"         "D"
HYDR         1   BB     0.00       0.500       0.000       0.000       0.000
HYDR         2   IC     0.00       0.500       0.000       0.000       0.000
HYDR         3   BB     0.00       0.500       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   BB      31.20      0.00     5.00     0.10     0.00     0.00     20.00      0.00
INITIAL          2   IC      32.00      0.00     5.00     0.11     0.00     0.00     20.00      0.00
INITIAL          3   BB      32.00      0.00     5.00     0.11     0.00     0.00     20.00      0.00
ENDATA11
$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$
                                                                    BOD    ANAER                  BOD2    ANAER
CARD     RCH  RCH  K2                K2       K2       K2    BKGRND      BOD      BOD     CONV     BOD2     BOD2     BOD2     CONV     BOD2
TYPE     NUM   ID  OPT               "A"      "B"      "C"      SOD    DECAY     SETT    TO SOD    DECAY    DECAY     SETT    TO SOD    DECAY
                                                                g/m²/d  per day      m/d           per day  per day      m/d           per day
COEFF-1    1   BB   3 OCONNER-DOBB   0.000    0.000    0.000    0.500    0.150    0.000    1.000    0.000    0.000    0.000    0.000    0.000
COEFF-1    2   IC   3 OCONNER-DOBB   0.000    0.000    0.000    0.700    0.150    0.000    1.000    0.000    0.000    0.000    0.000    0.000
COEFF-1    3   BB   3 OCONNER-DOBB   0.000    0.000    0.000    0.500    0.150    0.000    1.000    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
COEFF-2          1   BB      0.020     0.000     1.000      0.130     0.000     0.000     0.000
COEFF-2          2   IC      0.020     0.000     1.000      0.130     0.000     0.000     0.000
COEFF-2          3   BB      0.020     0.000     1.000      0.130     0.000     0.000     0.000
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   SHADING
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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  IN/DIST  OUT/DIST
INCR-1          1  BB      0.00000     0.05000    30.00      0.00      0.00      0.00   0.00303   0.00000
INCR-1          2  IC      0.00000     0.00000    30.00      0.00      0.00      0.00   0.00000   0.00000
INCR-1          3  BB      0.00000     0.00000    30.00      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  BB       5.00      5.54     1.16      0.11      0.00      0.00
INCR-2          2  IC       5.00      5.54     1.16      0.11      0.00      0.00
INCR-2          3  BB       5.00      5.54     1.16      0.11      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
ENDATA18
$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$
CARD TYPE     REACH  ID      BOD#1     ORG-N      COLI       NCM        DO     BOD#2
NONPOINT        1  BB     240.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        2  IC     240.00      0.00      0.00      0.00      0.00      0.00
NONPOINT        3  BB     700.00      0.00      0.00      0.00      0.00      0.00
ENDATA19
$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$
CARD TYPE     ELEMENT   NAME              UNIT     FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                          m³/s      cfs   deg C      ppt
HDWTR-1         1     BayouBlue#1           0   1.72700   60.982   31.30     0.00     0.000     0.000   0.00
HDWTR-1       166     ICWWtoBlue            0   1.41600   50.000   31.30     0.00     0.000     0.000   0.00
ENDATA20
$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$
CARD TYPE     ELEMENT   NAME                    DO     BOD#1     ORG-N     NH3-N     NO3-N     BOD#2
                                              mg/L      mg/L      mg/L      mg/L      mg/L      mg/L
HDWTR-2         1     BayouBlue#1             5.00      5.54      1.16      0.11      0.00      0.00
HDWTR-2       166     ICWWtoBlue              5.00      3.83      0.49      0.04      0.00      0.00
ENDATA21
$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
CARD TYPE     ELEMENT   NAME                  PHOS     CHL A      COLI       NCM
                                              mg/L      mg/L      mg/L      mg/L
ENDATA22
$$$ DATA TYPE 23 (JUNCTION DATA) $$$
CARD TYPE   JUNCTION   UPSTRM    RIVER     NAME
          ELEMENT  ELEMENT     KILOM
JUNCTION        180     165      3.70     ICWWtoBlue
ENDATA23
$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$
CARD TYPE  ELEMENT    RKILO  NAME                FLOW      FLOW     FLOW    TEMP    SALIN      CM-I     CM-II
                                                 m³/s       cfs      MGD   deg C      ppt
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WSTLD-1     63     14.00  toICWW            -0.15091   -5.32874   -3.445   30.00     0.00     0.000     0.000
WSTLD-1     119     8.40  LAG541539           0.00020    0.00706    0.005   30.00     0.00     0.000     0.000
WSTLD-1     119     8.40  LA0084077           0.00017    0.00600    0.004   30.00     0.00     0.000     0.000
ENDATA24
$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                 % BOD                    %
CARD TYPE    ELEMENT   NAME                    DO      BOD      RMVL     ORG-N     NH3-N    NITRIF     NO3-N     BOD#2
                                              mg/L     mg/L              mg/L      mg/L              mg/L      mg/L
WSTLD-2       63     toICWW                  0.00     0.00     0.00     0.00      0.00     0.00      0.00      0.00
WSTLD-2       119    LAG541539               5.00    69.00     0.00     5.00     10.00     0.00      0.00      0.00
WSTLD-2       119    LA0084077               5.00   103.50     0.00     7.50     15.00     0.00      0.00      0.00
ENDATA25
$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$
CARD TYPE    ELEMENT   NAME                    PHOS     CHL A      COLI      NCM
                                              mg/L     mg/L      mg/L      mg/L
ENDATA26
$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$
CARD TYPE    CONSTITUENT                 CONCENTRATION
LOWER BC     TEMPERATURE                      31.400     deg C
LOWER BC     SALINITY                  0.000     ppt
LOWER BC     CONSERVATIVE MATERIAL I          0.000
LOWER BC     CONSERVATIVE MATERIAL II         0.000
LOWER BC     DISSOLVED OXYGEN                4.850     mg/L
LOWER BC     BIOCHEMICAL OXYGEN DEMAND             4.030     mg/L
LOWER BC     ORGANIC NITROGEN                0.000     mg/L
LOWER BC     AMMONIA NITROGEN                0.100     mg/L
LOWER BC     NITRATE + NITRITE               0.320     mg/L
LOWER BC     PHOSPHORUS                      0.000     mg/L
LOWER BC     CHLOROPHYLL A                  20.000     µg/L
LOWER BC     COLIFORM                  0.000     #/100 mL
LOWER BC     NONCONSERVATIVE MATERIAL         0.000
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 =  2
NUMBER OF REACHES IN PLOT 1 =   2
PLOT RCH  1  3
NUMBER OF REACHES IN PLOT 2 =   1
PLOT RCH  2
ENDATA30
$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$
OVERLAY 1 BlueTMDL.ovl                :BayouBlue (120604)
OVERLAY 2 ICWWtoBlue.ovl              :ICWWtoBlue
ENDATA31
    .....NO ERRORS DETECTED IN INPUT DATA
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.....HYDRAULIC CALCULATIONS COMPLETED
.....TRIDIAGONAL MATRIX TERMS INITIALIZED
.....OXYGEN DEPENDENT RATES CONVERGENT IN 5 ITERATIONS
.....CONSTITUENT CALCULATIONS COMPLETED
***** WARNING: NEGATIVE CONCENTRATIONS SET TO ZERO FOR Nitrate+Nitrite Nitrogen
.....GRAPHICS DATA FOR PLOT 1 WRITTEN TO UNIT 11
.....GRAPHICS DATA FOR PLOT 2 WRITTEN TO UNIT 12

INTERMEDIATE REPORT
Dissolved Oxygen LA-QUAL TMDL for Bayou Blue
mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	5.05	5.11	5.16	5.21	5.26	5.31	5.35	5.40	5.44	5.48
BB	1	11	5.52	5.56	5.60	5.64	5.68	5.71	5.75	5.78	5.82	5.85
BB	1	21	5.88	5.91	5.94	5.97	6.00	6.02	6.05	6.08	6.10	6.13
BB	1	31	6.15	6.17	6.20	6.22	6.24	6.26	6.28	6.30	6.32	6.34
BB	1	41	6.36	6.37	6.39	6.41	6.42	6.44	6.46	6.47	6.48	6.50
BB	1	51	6.51	6.53	6.54	6.55	6.56	6.58	6.59	6.60	6.61	6.62
BB	1	61	6.63	6.64	6.65	6.66	6.67	6.68	6.68	6.69	6.70	6.71
BB	1	71	6.72	6.72	6.73	6.74	6.74	6.75	6.76	6.76	6.77	6.78
BB	1	81	6.78	6.79	6.79	6.80	6.80	6.81	6.81	6.82	6.82	6.82
BB	1	91	6.83	6.83	6.84	6.84	6.84	6.85	6.85	6.85	6.86	6.86
BB	1	101	6.86	6.86	6.87	6.87	6.87	6.87	6.88	6.88	6.88	6.88
BB	1	111	6.88	6.89	6.89	6.89	6.89	6.89	6.89	6.90	6.90	6.90
BB	1	121	6.90	6.90	6.90	6.90	6.90	6.90	6.91	6.91	6.91	6.91
BB	1	131	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91
BB	1	141	6.91	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92
BB	1	151	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92	6.92
BB	1	161	6.92	6.92	6.92	6.92	6.84					
BB	3	180	6.03	6.02	6.02	6.01	6.01	6.01	6.00	6.00	5.99	5.99
BB	3	190	5.98	5.98	5.97	5.97	5.96	5.96	5.96	5.95	5.95	5.94
BB	3	200	5.94	5.93	5.93	5.92	5.92	5.92	5.91	5.91	5.90	5.90
BB	3	210	5.89	5.89	5.89	5.88	5.88	5.86	5.71			
IC	2	166	5.01	5.02	5.03	5.03	5.04	5.04	5.04	5.04	5.04	5.04
IC	2	176	5.04	5.04	5.07	5.26						

INTERMEDIATE REPORT
Effective BOD LA-QUAL TMDL for Bayou Blue
mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	5.55	5.55	5.56	5.56	5.57	5.57	5.58	5.58	5.59	5.59
BB	1	11	5.60	5.60	5.61	5.61	5.62	5.62	5.63	5.63	5.64	5.64
BB	1	21	5.65	5.65	5.66	5.66	5.67	5.67	5.67	5.68	5.68	5.69
BB	1	31	5.69	5.70	5.70	5.71	5.71	5.72	5.72	5.73	5.73	5.74
BB	1	41	5.74	5.75	5.75	5.76	5.76	5.77	5.77	5.78	5.78	5.79
BB	1	51	5.79	5.80	5.80	5.80	5.81	5.81	5.82	5.82	5.83	5.83
BB	1	61	5.84	5.84	5.85	5.85	5.86	5.86	5.87	5.87	5.88	5.88
BB	1	71	5.89	5.89	5.90	5.90	5.91	5.91	5.92	5.92	5.93	5.93
BB	1	81	5.94	5.94	5.95	5.95	5.96	5.96	5.97	5.97	5.98	5.98
BB	1	91	5.99	5.99	6.00	6.00	6.01	6.01	6.02	6.02	6.03	6.03
BB	1	101	6.03	6.04	6.04	6.05	6.05	6.06	6.06	6.07	6.07	6.08
BB	1	111	6.08	6.09	6.09	6.10	6.10	6.11	6.11	6.12	6.14	6.14

BB	1	121	6.15	6.15	6.16	6.16	6.17	6.17	6.18	6.18	6.18	6.19
BB	1	131	6.19	6.20	6.20	6.21	6.21	6.22	6.22	6.23	6.23	6.23
BB	1	141	6.24	6.24	6.25	6.25	6.26	6.26	6.27	6.27	6.27	6.28
BB	1	151	6.28	6.29	6.29	6.30	6.30	6.31	6.31	6.31	6.32	6.32
BB	1	161	6.33	6.33	6.34	6.34	6.29					
BB	3	180	5.75	5.78	5.82	5.86	5.90	5.94	5.97	6.01	6.05	6.08
BB	3	190	6.12	6.16	6.19	6.23	6.26	6.30	6.34	6.37	6.41	6.44
BB	3	200	6.48	6.51	6.54	6.58	6.61	6.65	6.68	6.71	6.75	6.78
BB	3	210	6.81	6.85	6.88	6.91	6.94	6.93	6.53			
IC	2	166	3.94	4.02	4.11	4.20	4.28	4.36	4.44	4.52	4.60	4.68
IC	2	176	4.76	4.84	4.94	5.15						

INTERMEDIATE REPORT

Biochemical Oxygen Demand — LA-QUAL TMDL for Bayou Blue

mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	5.55	5.55	5.56	5.56	5.57	5.57	5.58	5.58	5.59	5.59
BB	1	11	5.60	5.60	5.61	5.61	5.62	5.62	5.63	5.63	5.64	5.64
BB	1	21	5.65	5.65	5.66	5.66	5.67	5.67	5.67	5.68	5.68	5.69
BB	1	31	5.69	5.70	5.70	5.71	5.71	5.72	5.72	5.73	5.73	5.74
BB	1	41	5.74	5.75	5.75	5.76	5.76	5.77	5.77	5.78	5.78	5.79
BB	1	51	5.79	5.80	5.80	5.80	5.81	5.81	5.82	5.82	5.83	5.83
BB	1	61	5.84	5.84	5.85	5.85	5.86	5.86	5.87	5.87	5.88	5.88
BB	1	71	5.89	5.89	5.90	5.90	5.91	5.91	5.92	5.92	5.93	5.93
BB	1	81	5.94	5.94	5.95	5.95	5.96	5.96	5.97	5.97	5.98	5.98
BB	1	91	5.99	5.99	6.00	6.00	6.01	6.01	6.02	6.02	6.03	6.03
BB	1	101	6.03	6.04	6.04	6.05	6.05	6.06	6.06	6.07	6.07	6.08
BB	1	111	6.08	6.09	6.09	6.10	6.10	6.11	6.11	6.12	6.14	6.14
BB	1	121	6.15	6.15	6.16	6.16	6.17	6.17	6.18	6.18	6.18	6.19
BB	1	131	6.19	6.20	6.20	6.21	6.21	6.22	6.22	6.23	6.23	6.23
BB	1	141	6.24	6.24	6.25	6.25	6.26	6.26	6.27	6.27	6.27	6.28
BB	1	151	6.28	6.29	6.29	6.30	6.30	6.31	6.31	6.31	6.32	6.32
BB	1	161	6.33	6.33	6.34	6.34	6.29					
BB	3	180	5.75	5.78	5.82	5.86	5.90	5.94	5.97	6.01	6.05	6.08
BB	3	190	6.12	6.16	6.19	6.23	6.26	6.30	6.34	6.37	6.41	6.44
BB	3	200	6.48	6.51	6.54	6.58	6.61	6.65	6.68	6.71	6.75	6.78
BB	3	210	6.81	6.85	6.88	6.91	6.94	6.93	6.53			
IC	2	166	3.94	4.02	4.11	4.20	4.28	4.36	4.44	4.52	4.60	4.68
IC	2	176	4.76	4.84	4.94	5.15						

INTERMEDIATE REPORT

Organic Nitrogen — LA-QUAL TMDL for Bayou Blue

mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
BB	1	11	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
BB	1	21	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
BB	1	31	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
BB	1	41	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
BB	1	51	1.16	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
BB	1	61	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
BB	1	71	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15

BB	1	81	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
BB	1	91	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
BB	1	101	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
BB	1	111	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
BB	1	121	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
BB	1	131	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
BB	1	141	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
BB	1	151	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
BB	1	161	1.15	1.14	1.14	1.14	1.12					
BB	3	180	0.84	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
BB	3	190	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
BB	3	200	0.83	0.83	0.83	0.82	0.82	0.82	0.82	0.82	0.82	0.82
BB	3	210	0.82	0.82	0.82	0.82	0.82	0.81	0.69			
IC	2	166	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.48	0.48	0.48
IC	2	176	0.48	0.49	0.50	0.57						

INTERMEDIATE REPORT

Ammonia Nitrogen — LA-QUAL TMDL for Bayou Blue

mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	21	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	31	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	41	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	51	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	61	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	71	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	81	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	91	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	101	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	111	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	121	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	131	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	141	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	151	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
BB	1	161	0.11	0.11	0.11	0.11	0.11					
BB	3	180	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BB	3	190	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BB	3	200	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
BB	3	210	0.08	0.08	0.08	0.08	0.08	0.08	0.08			
IC	2	166	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
IC	2	176	0.04	0.04	0.04	0.05						

INTERMEDIATE REPORT

Nitrate+Nitrite Nitrogen — LA-QUAL TMDL for Bayou Blue

mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BB	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	161	0.00	0.00	0.00	0.00	0.00					
BB	3	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
IC	2	166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	176	0.00	0.00	0.00	0.00						

INTERMEDIATE REPORT

Total Nitrogen — LA-QUAL TMDL for Bayou Blue

mg/L

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
BB	1	11	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
BB	1	21	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
BB	1	31	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
BB	1	41	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27
BB	1	51	1.27	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
BB	1	61	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
BB	1	71	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
BB	1	81	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
BB	1	91	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
BB	1	101	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
BB	1	111	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
BB	1	121	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
BB	1	131	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
BB	1	141	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
BB	1	151	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
BB	1	161	1.26	1.26	1.26	1.26	1.23					
BB	3	180	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
BB	3	190	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
BB	3	200	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
BB	3	210	0.90	0.90	0.90	0.90	0.90	0.89	0.77			
IC	2	166	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.52	0.52
IC	2	176	0.52	0.53	0.54	0.62						

INTERMEDIATE REPORT

Chlorophyll a — LA-QUAL TMDL for Bayou Blue

µg/L

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

BB	1	1	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	11	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	21	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	31	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	41	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	51	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	61	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	71	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	81	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	91	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	101	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	111	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	121	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	131	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	141	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	151	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	1	161	20.00	20.00	20.00	20.00	20.00					
BB	3	180	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	3	190	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	3	200	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
BB	3	210	20.00	20.00	20.00	20.00	20.00	20.00	20.00			
IC	2	166	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
IC	2	176	20.00	20.00	20.00	20.00						

INTERMEDIATE REPORT

Temperature deg C — LA-QUAL TMDL for Bayou Blue

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	31.20	31.21	31.21	31.22	31.22	31.23	31.23	31.24	31.24	31.25
BB	1	11	31.25	31.26	31.26	31.27	31.27	31.28	31.28	31.29	31.29	31.30
BB	1	21	31.30	31.31	31.31	31.32	31.32	31.33	31.33	31.34	31.34	31.35
BB	1	31	31.35	31.36	31.36	31.36	31.37	31.37	31.38	31.38	31.39	31.39
BB	1	41	31.40	31.40	31.41	31.41	31.42	31.42	31.43	31.43	31.44	31.44
BB	1	51	31.45	31.45	31.46	31.46	31.47	31.47	31.48	31.48	31.49	31.49
BB	1	61	31.50	31.50	31.51	31.51	31.52	31.52	31.52	31.53	31.53	31.54
BB	1	71	31.54	31.55	31.55	31.56	31.56	31.57	31.57	31.58	31.58	31.59
BB	1	81	31.59	31.60	31.60	31.61	31.61	31.62	31.62	31.63	31.63	31.64
BB	1	91	31.64	31.65	31.65	31.66	31.66	31.67	31.67	31.68	31.68	31.68
BB	1	101	31.69	31.69	31.70	31.70	31.71	31.71	31.72	31.72	31.73	31.73
BB	1	111	31.74	31.74	31.75	31.75	31.76	31.76	31.77	31.77	31.78	31.78
BB	1	121	31.79	31.79	31.80	31.80	31.81	31.81	31.82	31.82	31.83	31.83
BB	1	131	31.84	31.84	31.84	31.85	31.85	31.86	31.86	31.87	31.87	31.88
BB	1	141	31.88	31.89	31.89	31.90	31.90	31.91	31.91	31.92	31.92	31.93
BB	1	151	31.93	31.94	31.94	31.95	31.95	31.96	31.96	31.97	31.97	31.98
BB	1	161	31.98	31.99	31.99	32.00	32.00					
BB	3	180	31.98	31.97	31.95	31.94	31.92	31.90	31.89	31.87	31.85	31.84
BB	3	190	31.82	31.81	31.79	31.77	31.76	31.74	31.72	31.71	31.69	31.68
BB	3	200	31.66	31.64	31.63	31.61	31.59	31.58	31.56	31.55	31.53	31.51
BB	3	210	31.50	31.48	31.46	31.45	31.43	31.42	31.40			
IC	2	166	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
IC	2	176	32.00	32.00	32.00	32.00						

INTERMEDIATE REPORT

Salinity ppt — LA-QUAL TMDL for Bayou Blue

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	161	0.00	0.00	0.00	0.00	0.00					
BB	3	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
IC	2	166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	176	0.00	0.00	0.00	0.00						

INTERMEDIATE REPORT

Reaeration Rate per day — LA-QUAL TMDL for Bayou Blue

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	8.027	8.028	8.030	8.031	8.033	8.034	8.035	8.037	8.038	8.039
BB	1	11	8.041	8.042	8.043	8.045	8.046	8.048	8.049	8.050	8.052	8.053
BB	1	21	8.054	8.056	8.057	8.058	8.060	8.061	8.063	8.064	8.065	8.067
BB	1	31	8.068	8.069	8.071	8.072	8.074	8.075	8.076	8.078	8.079	8.080
BB	1	41	8.082	8.083	8.085	8.086	8.087	8.089	8.090	8.091	8.093	8.094
BB	1	51	8.095	8.097	8.098	8.100	8.101	8.102	8.104	8.105	8.106	8.108
BB	1	61	8.109	8.111	7.754	7.755	7.756	7.758	7.759	7.760	7.762	7.763
BB	1	71	7.764	7.766	7.767	7.769	7.770	7.772	7.773	7.774	7.776	7.777
BB	1	81	7.778	7.780	7.781	7.782	7.784	7.785	7.787	7.788	7.789	7.791
BB	1	91	7.792	7.793	7.795	7.796	7.798	7.799	7.800	7.802	7.803	7.804
BB	1	101	7.806	7.807	7.809	7.810	7.811	7.813	7.814	7.815	7.817	7.818
BB	1	111	7.820	7.821	7.822	7.824	7.825	7.827	7.828	7.829	7.832	7.833
BB	1	121	7.834	7.836	7.837	7.838	7.840	7.841	7.843	7.844	7.845	7.847
BB	1	131	7.848	7.849	7.851	7.852	7.854	7.855	7.856	7.858	7.859	7.860
BB	1	141	7.862	7.863	7.865	7.866	7.867	7.869	7.870	7.872	7.873	7.874
BB	1	151	7.876	7.877	7.878	7.880	7.881	7.883	7.884	7.885	7.887	7.888
BB	1	161	7.889	7.891	7.892	7.894	7.895					
BB	3	180	1.302	1.301	1.301	1.301	1.300	1.300	1.300	1.299	1.299	1.299
BB	3	190	1.298	1.298	1.298	1.297	1.297	1.296	1.296	1.296	1.295	1.295

BB	3	200	1.295	1.294	1.294	1.294	1.293	1.293	1.293	1.292	1.292	1.292
BB	3	210	1.291	1.291	1.290	1.290	1.290	1.289	1.289			
IC	2	166	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622
IC	2	176	0.622	0.622	0.622	0.622						

INTERMEDIATE REPORT

BOD Decay Rate — LA-QUAL TMDL for Bayou Blue

per day

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	11	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	21	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	31	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	41	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	51	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	61	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
BB	1	71	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	81	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	91	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	101	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	111	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	121	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	131	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	141	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	151	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	161	0.26	0.26	0.26	0.26	0.26					
BB	3	180	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	3	190	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	3	200	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25
BB	3	210	0.25	0.25	0.25	0.25	0.25	0.25	0.25			
IC	2	166	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
IC	2	176	0.26	0.26	0.26	0.26						

INTERMEDIATE REPORT

BOD Settling Rate — LA-QUAL TMDL for Bayou Blue

per day

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BB	1	151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	1	161	0.00	0.00	0.00	0.00	0.00					
BB	3	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BB	3	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
IC	2	166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IC	2	176	0.00	0.00	0.00	0.00						

INTERMEDIATE REPORT

Ammonia Decay Rate — LA-QUAL TMDL for Bayou Blue

per day

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	11	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
BB	1	21	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27
BB	1	31	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
BB	1	41	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
BB	1	51	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
BB	1	61	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
BB	1	71	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
BB	1	81	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
BB	1	91	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
BB	1	101	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
BB	1	111	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
BB	1	121	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
BB	1	131	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
BB	1	141	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
BB	1	151	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
BB	1	161	0.28	0.28	0.28	0.28	0.28					
BB	3	180	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27
BB	3	190	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
BB	3	200	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
BB	3	210	0.27	0.27	0.27	0.27	0.27	0.26	0.26			
IC	2	166	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
IC	2	176	0.27	0.27	0.27	0.27						

INTERMEDIATE REPORT

Sediment Oxygen Demand — LA-QUAL TMDL for Bayou Blue

g/m²/d

ID	RCH	ELEM	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
BB	1	1	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.02	1.02
BB	1	11	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
BB	1	21	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
BB	1	31	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
BB	1	41	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	1	51	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	1	61	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
BB	1	71	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
BB	1	81	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
BB	1	91	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
BB	1	101	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05

BB	1	111	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BB	1	121	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
BB	1	131	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.06	1.06	1.06
BB	1	141	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BB	1	151	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
BB	1	161	1.06	1.06	1.06	1.06	1.06					
BB	3	180	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05
BB	3	190	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04
BB	3	200	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03
BB	3	210	1.03	1.03	1.03	1.03	1.03	1.03	1.03			
IC	2	166	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
IC	2	176	1.49	1.49	1.49	1.49						

EXPANDED CAPSULE SUMMARY FOR BayouBlue#1

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	REAER WIDTH	BOD1 VELO	BOD1 VELO	BOD2 SAT	BOD2 RATE	NH3 DECA	NH3 SETT	DECA SETT	DECA SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	g/m²/d
	HDWTR			1.727	31.3	0.0	5.0	5.5	0.0	1.2	0.1	20.0												
1	BB	1	20.10	1.727	31.2	0.0	5.1	5.5	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.345	0.345	7.4	8.027	0.25	0.00	0.00	0.00	0.25	1.01
2	BB	1	20.00	1.728	31.2	0.0	5.1	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.028	0.25	0.00	0.00	0.00	0.25	1.01
3	BB	1	19.90	1.728	31.2	0.0	5.2	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.030	0.25	0.00	0.00	0.00	0.26	1.01
4	BB	1	19.80	1.728	31.2	0.0	5.2	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.031	0.25	0.00	0.00	0.00	0.26	1.01
5	BB	1	19.70	1.729	31.2	0.0	5.3	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.033	0.25	0.00	0.00	0.00	0.26	1.01
6	BB	1	19.60	1.729	31.2	0.0	5.3	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.034	0.25	0.00	0.00	0.00	0.26	1.01
7	BB	1	19.50	1.729	31.2	0.0	5.4	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.035	0.25	0.00	0.00	0.00	0.26	1.01
8	BB	1	19.40	1.729	31.2	0.0	5.4	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.037	0.25	0.00	0.00	0.00	0.26	1.01
9	BB	1	19.30	1.730	31.2	0.0	5.4	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.038	0.25	0.00	0.00	0.00	0.26	1.02
10	BB	1	19.20	1.730	31.2	0.0	5.5	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.039	0.25	0.00	0.00	0.00	0.26	1.02
11	BB	1	19.10	1.730	31.3	0.0	5.5	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.041	0.25	0.00	0.00	0.00	0.26	1.02
12	BB	1	19.00	1.731	31.3	0.0	5.6	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.042	0.25	0.00	0.00	0.00	0.26	1.02
13	BB	1	18.90	1.731	31.3	0.0	5.6	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.043	0.25	0.00	0.00	0.00	0.26	1.02
14	BB	1	18.80	1.731	31.3	0.0	5.6	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.045	0.25	0.00	0.00	0.00	0.26	1.02
15	BB	1	18.70	1.732	31.3	0.0	5.7	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.046	0.25	0.00	0.00	0.00	0.26	1.02
16	BB	1	18.60	1.732	31.3	0.0	5.7	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.048	0.25	0.00	0.00	0.00	0.26	1.02
17	BB	1	18.50	1.732	31.3	0.0	5.7	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.049	0.25	0.00	0.00	0.00	0.26	1.02
18	BB	1	18.40	1.732	31.3	0.0	5.8	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.346	0.346	7.4	8.050	0.25	0.00	0.00	0.00	0.26	1.02
19	BB	1	18.30	1.733	31.3	0.0	5.8	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.052	0.25	0.00	0.00	0.00	0.26	1.02
20	BB	1	18.20	1.733	31.3	0.0	5.8	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.053	0.25	0.00	0.00	0.00	0.26	1.02
21	BB	1	18.10	1.733	31.3	0.0	5.9	5.6	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.054	0.25	0.00	0.00	0.00	0.26	1.02
22	BB	1	18.00	1.734	31.3	0.0	5.9	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.056	0.25	0.00	0.00	0.00	0.26	1.02
23	BB	1	17.90	1.734	31.3	0.0	5.9	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.057	0.25	0.00	0.00	0.00	0.26	1.02
24	BB	1	17.80	1.734	31.3	0.0	6.0	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.058	0.25	0.00	0.00	0.00	0.26	1.02
25	BB	1	17.70	1.735	31.3	0.0	6.0	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.060	0.25	0.00	0.00	0.00	0.26	1.02
26	BB	1	17.60	1.735	31.3	0.0	6.0	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.061	0.25	0.00	0.00	0.00	0.26	1.02
27	BB	1	17.50	1.735	31.3	0.0	6.1	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.063	0.25	0.00	0.00	0.00	0.27	1.02
28	BB	1	17.40	1.735	31.3	0.0	6.1	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.064	0.25	0.00	0.00	0.00	0.27	1.02
29	BB	1	17.30	1.736	31.3	0.0	6.1	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.065	0.25	0.00	0.00	0.00	0.27	1.02
30	BB	1	17.20	1.736	31.3	0.0	6.1	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.067	0.25	0.00	0.00	0.00	0.27	1.02
31	BB	1	17.10	1.736	31.4	0.0	6.2	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.068	0.25	0.00	0.00	0.00	0.27	1.02
32	BB	1	17.00	1.737	31.4	0.0	6.2	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.069	0.25	0.00	0.00	0.00	0.27	1.02
33	BB	1	16.90	1.737	31.4	0.0	6.2	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.071	0.25	0.00	0.00	0.00	0.27	1.02

34	BB	1	16.80	1.737	31.4	0.0	6.2	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.347	0.347	7.4	8.072	0.25	0.00	0.00	0.00	0.27	1.02
35	BB	1	16.70	1.738	31.4	0.0	6.2	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.074	0.25	0.00	0.00	0.00	0.27	1.02
36	BB	1	16.60	1.738	31.4	0.0	6.3	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.075	0.25	0.00	0.00	0.00	0.27	1.02
37	BB	1	16.50	1.738	31.4	0.0	6.3	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.076	0.25	0.00	0.00	0.00	0.27	1.02
38	BB	1	16.40	1.739	31.4	0.0	6.3	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.078	0.25	0.00	0.00	0.00	0.27	1.02
39	BB	1	16.30	1.739	31.4	0.0	6.3	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.079	0.25	0.00	0.00	0.00	0.27	1.02
40	BB	1	16.20	1.739	31.4	0.0	6.3	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.080	0.25	0.00	0.00	0.00	0.27	1.02
41	BB	1	16.10	1.739	31.4	0.0	6.4	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.082	0.25	0.00	0.00	0.00	0.27	1.02
42	BB	1	16.00	1.740	31.4	0.0	6.4	5.7	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.083	0.25	0.00	0.00	0.00	0.27	1.03
43	BB	1	15.90	1.740	31.4	0.0	6.4	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.085	0.25	0.00	0.00	0.00	0.27	1.03
44	BB	1	15.80	1.740	31.4	0.0	6.4	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.086	0.25	0.00	0.00	0.00	0.27	1.03
45	BB	1	15.70	1.741	31.4	0.0	6.4	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.087	0.25	0.00	0.00	0.00	0.27	1.03
46	BB	1	15.60	1.741	31.4	0.0	6.4	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.089	0.25	0.00	0.00	0.00	0.27	1.03
47	BB	1	15.50	1.741	31.4	0.0	6.5	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.090	0.25	0.00	0.00	0.00	0.27	1.03
48	BB	1	15.40	1.742	31.4	0.0	6.5	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.091	0.25	0.00	0.00	0.00	0.27	1.03
49	BB	1	15.30	1.742	31.4	0.0	6.5	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.093	0.25	0.00	0.00	0.00	0.27	1.03
50	BB	1	15.20	1.742	31.4	0.0	6.5	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.094	0.25	0.00	0.00	0.00	0.27	1.03
51	BB	1	15.10	1.742	31.4	0.0	6.5	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.348	0.348	7.4	8.095	0.25	0.00	0.00	0.00	0.27	1.03
52	BB	1	15.00	1.743	31.5	0.0	6.5	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.349	0.349	7.4	8.097	0.25	0.00	0.00	0.00	0.27	1.03
53	BB	1	14.90	1.743	31.5	0.0	6.5	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.349	0.349	7.4	8.098	0.25	0.00	0.00	0.00	0.27	1.03
54	BB	1	14.80	1.743	31.5	0.0	6.6	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.349	0.349	7.4	8.100	0.25	0.00	0.00	0.00	0.27	1.03
55	BB	1	14.70	1.744	31.5	0.0	6.6	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.349	0.349	7.4	8.101	0.25	0.00	0.00	0.00	0.27	1.03
56	BB	1	14.60	1.744	31.5	0.0	6.6	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.349	0.349	7.4	8.102	0.25	0.00	0.00	0.00	0.27	1.03
57	BB	1	14.50	1.744	31.5	0.0	6.6	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.349	0.349	7.4	8.104	0.25	0.00	0.00	0.00	0.27	1.03
58	BB	1	14.40	1.745	31.5	0.0	6.6	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.349	0.349	7.4	8.105	0.25	0.00	0.00	0.00	0.27	1.03
59	BB	1	14.30	1.745	31.5	0.0	6.6	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.349	0.349	7.4	8.106	0.25	0.00	0.00	0.00	0.27	1.03
60	BB	1	14.20	1.745	31.5	0.0	6.6	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.349	0.349	7.4	8.108	0.25	0.00	0.00	0.00	0.27	1.03
61	BB	1	14.10	1.745	31.5	0.0	6.6	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.349	0.349	7.4	8.109	0.25	0.00	0.00	0.00	0.27	1.03
62	BB	1	14.00	1.746	31.5	0.0	6.6	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.349	0.349	7.4	8.111	0.25	0.00	0.00	0.00	0.27	1.03
DIVERSION # 063 (toICWW) LEAVES HERE																										
63	BB	1	13.90	1.595	31.5	0.0	6.6	5.8	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.319	0.319	7.4	7.754	0.25	0.00	0.00	0.00	0.27	1.03
64	BB	1	13.80	1.595	31.5	0.0	6.7	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.319	0.319	7.4	7.755	0.25	0.00	0.00	0.00	0.27	1.03
65	BB	1	13.70	1.596	31.5	0.0	6.7	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.319	0.319	7.4	7.756	0.25	0.00	0.00	0.00	0.27	1.03
66	BB	1	13.60	1.596	31.5	0.0	6.7	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.319	0.319	7.4	7.758	0.25	0.00	0.00	0.00	0.27	1.03
67	BB	1	13.50	1.596	31.5	0.0	6.7	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.319	0.319	7.4	7.759	0.25	0.00	0.00	0.00	0.27	1.03
68	BB	1	13.40	1.597	31.5	0.0	6.7	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.319	0.319	7.4	7.760	0.25	0.00	0.00	0.00	0.27	1.03
69	BB	1	13.30	1.597	31.5	0.0	6.7	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.319	0.319	7.4	7.762	0.25	0.00	0.00	0.00	0.27	1.03
70	BB	1	13.20	1.597	31.5	0.0	6.7	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.319	0.319	7.4	7.763	0.25	0.00	0.00	0.00	0.27	1.03
71	BB	1	13.10	1.598	31.5	0.0	6.7	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.764	0.25	0.00	0.00	0.00	0.27	1.03
72	BB	1	13.00	1.598	31.5	0.0	6.7	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.766	0.25	0.00	0.00	0.00	0.27	1.03
EXPANDED CAPSULE SUMMARY FOR BayouBlue#1																										
													ADVEC	MEAN	DO	REAER	BOD1	BOD1	BOD2	BOD2	NH3					
IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	VELO	VELO	SAT	RATE	DECA	SETT	DECA	SETT	DECA	SOD	
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d	
73	BB	1	12.90	1.598	31.6	0.0	6.7	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.767	0.26	0.00	0.00	0.00	0.27	1.04
74	BB	1	12.80	1.599	31.6	0.0	6.7	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.769	0.26	0.00	0.00	0.00	0.27	1.04
75	BB	1	12.70	1.599	31.6	0.0	6.7	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.770	0.26	0.00	0.00	0.00	0.27	1.04
76	BB	1	12.60	1.599	31.6	0.0	6.8	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.772	0.26	0.00	0.00	0.00	0.27	1.04
77	BB	1	12.50	1.599	31.6	0.0	6.8	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.773	0.26	0.00	0.00	0.00	0.27	1.04
78	BB	1	12.40	1.600	31.6	0.0	6.8	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.774	0.26	0.00	0.00	0.00	0.27	1.04

79	BB	1	12.30	1.600	31.6	0.0	6.8	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.776	0.26	0.00	0.00	0.00	0.27	1.04
80	BB	1	12.20	1.600	31.6	0.0	6.8	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.777	0.26	0.00	0.00	0.00	0.27	1.04
81	BB	1	12.10	1.601	31.6	0.0	6.8	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.778	0.26	0.00	0.00	0.00	0.28	1.04
82	BB	1	12.00	1.601	31.6	0.0	6.8	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.780	0.26	0.00	0.00	0.00	0.28	1.04
83	BB	1	11.90	1.601	31.6	0.0	6.8	5.9	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.781	0.26	0.00	0.00	0.00	0.28	1.04
84	BB	1	11.80	1.602	31.6	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.782	0.26	0.00	0.00	0.00	0.28	1.04
85	BB	1	11.70	1.602	31.6	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.784	0.26	0.00	0.00	0.00	0.28	1.04
86	BB	1	11.60	1.602	31.6	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.785	0.26	0.00	0.00	0.00	0.28	1.04
87	BB	1	11.50	1.602	31.6	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.320	0.320	7.4	7.787	0.26	0.00	0.00	0.00	0.28	1.04
88	BB	1	11.40	1.603	31.6	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.4	7.788	0.26	0.00	0.00	0.00	0.28	1.04
89	BB	1	11.30	1.603	31.6	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.4	7.789	0.26	0.00	0.00	0.00	0.28	1.04
90	BB	1	11.20	1.603	31.6	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.791	0.26	0.00	0.00	0.00	0.28	1.04
91	BB	1	11.10	1.604	31.6	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.792	0.26	0.00	0.00	0.00	0.28	1.04
92	BB	1	11.00	1.604	31.6	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.793	0.26	0.00	0.00	0.00	0.28	1.04
93	BB	1	10.90	1.604	31.7	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.795	0.26	0.00	0.00	0.00	0.28	1.04
94	BB	1	10.80	1.605	31.7	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.796	0.26	0.00	0.00	0.00	0.28	1.04
95	BB	1	10.70	1.605	31.7	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.798	0.26	0.00	0.00	0.00	0.28	1.04
96	BB	1	10.60	1.605	31.7	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.799	0.26	0.00	0.00	0.00	0.28	1.04
97	BB	1	10.50	1.605	31.7	0.0	6.8	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.800	0.26	0.00	0.00	0.00	0.28	1.04
98	BB	1	10.40	1.606	31.7	0.0	6.9	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.802	0.26	0.00	0.00	0.00	0.28	1.04
99	BB	1	10.30	1.606	31.7	0.0	6.9	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.803	0.26	0.00	0.00	0.00	0.28	1.04
100	BB	1	10.20	1.606	31.7	0.0	6.9	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.804	0.26	0.00	0.00	0.00	0.28	1.04
101	BB	1	10.10	1.607	31.7	0.0	6.9	6.0	0.0	1.2	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.806	0.26	0.00	0.00	0.00	0.28	1.04
102	BB	1	10.00	1.607	31.7	0.0	6.9	6.0	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.807	0.26	0.00	0.00	0.00	0.28	1.04
103	BB	1	9.90	1.607	31.7	0.0	6.9	6.0	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.321	0.321	7.3	7.809	0.26	0.00	0.00	0.00	0.28	1.04
104	BB	1	9.80	1.608	31.7	0.0	6.9	6.0	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.810	0.26	0.00	0.00	0.00	0.28	1.04
105	BB	1	9.70	1.608	31.7	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.811	0.26	0.00	0.00	0.00	0.28	1.05
106	BB	1	9.60	1.608	31.7	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.813	0.26	0.00	0.00	0.00	0.28	1.05
107	BB	1	9.50	1.609	31.7	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.814	0.26	0.00	0.00	0.00	0.28	1.05
108	BB	1	9.40	1.609	31.7	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.815	0.26	0.00	0.00	0.00	0.28	1.05
109	BB	1	9.30	1.609	31.7	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.817	0.26	0.00	0.00	0.00	0.28	1.05
110	BB	1	9.20	1.609	31.7	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.818	0.26	0.00	0.00	0.00	0.28	1.05
111	BB	1	9.10	1.610	31.7	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.820	0.26	0.00	0.00	0.00	0.28	1.05
112	BB	1	9.00	1.610	31.7	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.821	0.26	0.00	0.00	0.00	0.28	1.05
113	BB	1	8.90	1.610	31.7	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.822	0.26	0.00	0.00	0.00	0.28	1.05
114	BB	1	8.80	1.611	31.8	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.824	0.26	0.00	0.00	0.00	0.28	1.05
115	BB	1	8.70	1.611	31.8	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.825	0.26	0.00	0.00	0.00	0.28	1.05
116	BB	1	8.60	1.611	31.8	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.827	0.26	0.00	0.00	0.00	0.28	1.05
117	BB	1	8.50	1.612	31.8	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.828	0.26	0.00	0.00	0.00	0.28	1.05
118	BB	1	8.40	1.612	31.8	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.322	0.322	7.3	7.829	0.26	0.00	0.00	0.00	0.28	1.05
WASTELOAD # 119 (LAG541539) ENTERS HERE																									
WASTELOAD # 119 (LA0084077) ENTERS HERE																									
119	BB	1	8.30	1.613	31.8	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.832	0.26	0.00	0.00	0.00	0.28	1.05
120	BB	1	8.20	1.613	31.8	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.833	0.26	0.00	0.00	0.00	0.28	1.05
121	BB	1	8.10	1.613	31.8	0.0	6.9	6.1	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.834	0.26	0.00	0.00	0.00	0.28	1.05
122	BB	1	8.00	1.613	31.8	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.836	0.26	0.00	0.00	0.00	0.28	1.05
123	BB	1	7.90	1.614	31.8	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.837	0.26	0.00	0.00	0.00	0.28	1.05
124	BB	1	7.80	1.614	31.8	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.838	0.26	0.00	0.00	0.00	0.28	1.05
125	BB	1	7.70	1.614	31.8	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.840	0.26	0.00	0.00	0.00	0.28	1.05
126	BB	1	7.60	1.615	31.8	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.841	0.26	0.00	0.00	0.00	0.28	1.05

127	BB	1	7.50	1.615	31.8	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.843	0.26	0.00	0.00	0.00	0.28	1.05
128	BB	1	7.40	1.615	31.8	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.844	0.26	0.00	0.00	0.00	0.28	1.05
129	BB	1	7.30	1.616	31.8	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.845	0.26	0.00	0.00	0.00	0.28	1.05
130	BB	1	7.20	1.616	31.8	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.847	0.26	0.00	0.00	0.00	0.28	1.05
131	BB	1	7.10	1.616	31.8	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.848	0.26	0.00	0.00	0.00	0.28	1.05
132	BB	1	7.00	1.616	31.8	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.849	0.26	0.00	0.00	0.00	0.28	1.05
133	BB	1	6.90	1.617	31.8	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.851	0.26	0.00	0.00	0.00	0.28	1.05
134	BB	1	6.80	1.617	31.8	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.852	0.26	0.00	0.00	0.00	0.28	1.05
135	BB	1	6.70	1.617	31.9	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.323	0.323	7.3	7.854	0.26	0.00	0.00	0.00	0.28	1.05
136	BB	1	6.60	1.618	31.9	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.855	0.26	0.00	0.00	0.00	0.28	1.06
137	BB	1	6.50	1.618	31.9	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.856	0.26	0.00	0.00	0.00	0.28	1.06
138	BB	1	6.40	1.618	31.9	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.858	0.26	0.00	0.00	0.00	0.28	1.06
139	BB	1	6.30	1.619	31.9	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.859	0.26	0.00	0.00	0.00	0.28	1.06
140	BB	1	6.20	1.619	31.9	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.860	0.26	0.00	0.00	0.00	0.28	1.06
141	BB	1	6.10	1.619	31.9	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.862	0.26	0.00	0.00	0.00	0.28	1.06
142	BB	1	6.00	1.619	31.9	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.863	0.26	0.00	0.00	0.00	0.28	1.06
143	BB	1	5.90	1.620	31.9	0.0	6.9	6.2	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.865	0.26	0.00	0.00	0.00	0.28	1.06
144	BB	1	5.80	1.620	31.9	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.866	0.26	0.00	0.00	0.00	0.28	1.06

EXPANDED CAPSULE SUMMARY FOR BayouBlue#1

															ADVEC	MEAN	DO	REAER	BOD1	BOD1	BOD2	BOD2	NH3		
IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	DISP	DEPTH	WIDTH	VELO	VELO	SAT	RATE	DECA	SETT	DECA	SETT	DECA	SOD
			km	m³/s	deg C	ppt	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
145	BB	1	5.70	1.620	31.9	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.867	0.26	0.00	0.00	0.00	0.28	1.06
146	BB	1	5.60	1.621	31.9	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.869	0.26	0.00	0.00	0.00	0.28	1.06
147	BB	1	5.50	1.621	31.9	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.870	0.26	0.00	0.00	0.00	0.28	1.06
148	BB	1	5.40	1.621	31.9	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.872	0.26	0.00	0.00	0.00	0.28	1.06
149	BB	1	5.30	1.622	31.9	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.873	0.26	0.00	0.00	0.00	0.28	1.06
150	BB	1	5.20	1.622	31.9	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.874	0.26	0.00	0.00	0.00	0.28	1.06
151	BB	1	5.10	1.622	31.9	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.324	0.324	7.3	7.876	0.26	0.00	0.00	0.00	0.28	1.06
152	BB	1	5.00	1.623	31.9	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.877	0.26	0.00	0.00	0.00	0.28	1.06
153	BB	1	4.90	1.623	31.9	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.878	0.26	0.00	0.00	0.00	0.28	1.06
154	BB	1	4.80	1.623	31.9	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.880	0.26	0.00	0.00	0.00	0.28	1.06
155	BB	1	4.70	1.623	32.0	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.881	0.26	0.00	0.00	0.00	0.28	1.06
156	BB	1	4.60	1.624	32.0	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.883	0.26	0.00	0.00	0.00	0.28	1.06
157	BB	1	4.50	1.624	32.0	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.884	0.26	0.00	0.00	0.00	0.28	1.06
158	BB	1	4.40	1.624	32.0	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.885	0.26	0.00	0.00	0.00	0.28	1.06
159	BB	1	4.30	1.625	32.0	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.887	0.26	0.00	0.00	0.00	0.28	1.06
160	BB	1	4.20	1.625	32.0	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.888	0.26	0.00	0.00	0.00	0.28	1.06
161	BB	1	4.10	1.625	32.0	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.889	0.26	0.00	0.00	0.00	0.28	1.06
162	BB	1	4.00	1.626	32.0	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.891	0.26	0.00	0.00	0.00	0.28	1.06
163	BB	1	3.90	1.626	32.0	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.892	0.26	0.00	0.00	0.00	0.28	1.06
164	BB	1	3.80	1.626	32.0	0.0	6.9	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.894	0.26	0.00	0.00	0.00	0.28	1.06
165	BB	1	3.70	1.626	32.0	0.0	6.8	6.3	0.0	1.1	0.1	20.0	0.5	0.50	10.0	0.325	0.325	7.3	7.895	0.26	0.00	0.00	0.00	0.28	1.06

TRIBUTARY # 166 (ICWWtoBlue) ENTERS HERE

180	BB	3	3.60	3.042	32.0	0.0	6.0	5.7	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.302	0.26	0.00	0.00	0.00	0.28	1.06
181	BB	3	3.50	3.042	32.0	0.0	6.0	5.8	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.301	0.26	0.00	0.00	0.00	0.28	1.06
182	BB	3	3.40	3.042	32.0	0.0	6.0	5.8	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.301	0.26	0.00	0.00	0.00	0.28	1.06
183	BB	3	3.30	3.042	31.9	0.0	6.0	5.9	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.301	0.26	0.00	0.00	0.00	0.28	1.06
184	BB	3	3.20	3.042	31.9	0.0	6.0	5.9	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.300	0.26	0.00	0.00	0.00	0.28	1.06
185	BB	3	3.10	3.042	31.9	0.0	6.0	5.9	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.300	0.26	0.00	0.00	0.00	0.28	1.06

186	BB	3	3.00	3.042	31.9	0.0	6.0	6.0	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.300	0.26	0.00	0.00	0.00	0.27	1.06
187	BB	3	2.90	3.042	31.9	0.0	6.0	6.0	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.299	0.26	0.00	0.00	0.00	0.27	1.06
188	BB	3	2.80	3.042	31.9	0.0	6.0	6.0	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.299	0.26	0.00	0.00	0.00	0.27	1.05
189	BB	3	2.70	3.042	31.8	0.0	6.0	6.1	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.299	0.26	0.00	0.00	0.00	0.27	1.05
190	BB	3	2.60	3.042	31.8	0.0	6.0	6.1	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.298	0.26	0.00	0.00	0.00	0.27	1.05
191	BB	3	2.50	3.042	31.8	0.0	6.0	6.2	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.298	0.26	0.00	0.00	0.00	0.27	1.05
192	BB	3	2.40	3.042	31.8	0.0	6.0	6.2	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.298	0.26	0.00	0.00	0.00	0.27	1.05
193	BB	3	2.30	3.042	31.8	0.0	6.0	6.2	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.297	0.26	0.00	0.00	0.00	0.27	1.05
194	BB	3	2.20	3.042	31.8	0.0	6.0	6.3	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.297	0.26	0.00	0.00	0.00	0.27	1.05
195	BB	3	2.10	3.042	31.7	0.0	6.0	6.3	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.296	0.26	0.00	0.00	0.00	0.27	1.05
196	BB	3	2.00	3.042	31.7	0.0	6.0	6.3	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.296	0.26	0.00	0.00	0.00	0.27	1.05
197	BB	3	1.90	3.042	31.7	0.0	6.0	6.4	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.296	0.26	0.00	0.00	0.00	0.27	1.05
198	BB	3	1.80	3.042	31.7	0.0	5.9	6.4	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.295	0.26	0.00	0.00	0.00	0.27	1.04
199	BB	3	1.70	3.042	31.7	0.0	5.9	6.4	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.295	0.26	0.00	0.00	0.00	0.27	1.04
200	BB	3	1.60	3.042	31.7	0.0	5.9	6.5	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.295	0.26	0.00	0.00	0.00	0.27	1.04
201	BB	3	1.50	3.042	31.6	0.0	5.9	6.5	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.3	1.294	0.26	0.00	0.00	0.00	0.27	1.04
202	BB	3	1.40	3.042	31.6	0.0	5.9	6.5	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.294	0.26	0.00	0.00	0.00	0.27	1.04
203	BB	3	1.30	3.042	31.6	0.0	5.9	6.6	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.294	0.26	0.00	0.00	0.00	0.27	1.04
204	BB	3	1.20	3.042	31.6	0.0	5.9	6.6	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.293	0.26	0.00	0.00	0.00	0.27	1.04
205	BB	3	1.10	3.042	31.6	0.0	5.9	6.6	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.293	0.26	0.00	0.00	0.00	0.27	1.04
206	BB	3	1.00	3.042	31.6	0.0	5.9	6.7	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.293	0.26	0.00	0.00	0.00	0.27	1.04
207	BB	3	0.90	3.042	31.5	0.0	5.9	6.7	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.292	0.25	0.00	0.00	0.00	0.27	1.03
208	BB	3	0.80	3.042	31.5	0.0	5.9	6.7	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.292	0.25	0.00	0.00	0.00	0.27	1.03
209	BB	3	0.70	3.042	31.5	0.0	5.9	6.8	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.292	0.25	0.00	0.00	0.00	0.27	1.03
210	BB	3	0.60	3.042	31.5	0.0	5.9	6.8	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.291	0.25	0.00	0.00	0.00	0.27	1.03
211	BB	3	0.50	3.042	31.5	0.0	5.9	6.8	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.291	0.25	0.00	0.00	0.00	0.27	1.03
212	BB	3	0.40	3.042	31.5	0.0	5.9	6.9	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.290	0.25	0.00	0.00	0.00	0.27	1.03
213	BB	3	0.30	3.042	31.4	0.0	5.9	6.9	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.290	0.25	0.00	0.00	0.00	0.27	1.03
214	BB	3	0.20	3.042	31.4	0.0	5.9	6.9	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.290	0.25	0.00	0.00	0.00	0.27	1.03
215	BB	3	0.10	3.042	31.4	0.0	5.9	6.9	0.0	0.8	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.289	0.25	0.00	0.00	0.00	0.26	1.03
216	BB	3	0.00	3.042	31.4	0.0	5.7	6.5	0.0	0.7	0.1	20.0	0.5	0.90	65.5	0.052	0.052	7.4	1.289	0.25	0.00	0.00	0.00	0.26	1.03

EXPANDED CAPSULE SUMMARY FOR ICWWtoBlue

IOR	REACH		DIST	FLOW	TEMP	SALN	DO	EBOD1	EBOD2	ORG-N	NH3	CHLA	ADVEC DISP	MEAN DEPTH	WIDTH	VELO	VELO	SAT	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	mg/L	µg/L	m²/s	m	m	m/s	m/s	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	g/m²/d
166	IC	2	1.30	1.416	32.0	0.0	5.0	3.9	0.0	0.5	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49
167	IC	2	1.20	1.416	32.0	0.0	5.0	4.0	0.0	0.5	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49
168	IC	2	1.10	1.416	32.0	0.0	5.0	4.1	0.0	0.5	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49
169	IC	2	1.00	1.416	32.0	0.0	5.0	4.2	0.0	0.5	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49
170	IC	2	0.90	1.416	32.0	0.0	5.0	4.3	0.0	0.5	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49
171	IC	2	0.80	1.416	32.0	0.0	5.0	4.4	0.0	0.5	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49
172	IC	2	0.70	1.416	32.0	0.0	5.0	4.4	0.0	0.5	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49
173	IC	2	0.60	1.416	32.0	0.0	5.0	4.5	0.0	0.5	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49
174	IC	2	0.50	1.416	32.0	0.0	5.0	4.6	0.0	0.5	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49
175	IC	2	0.40	1.416	32.0	0.0	5.0	4.7	0.0	0.5	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49
176	IC	2	0.30	1.416	32.0	0.0	5.0	4.8	0.0	0.5	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49
177	IC	2	0.20	1.416	32.0	0.0	5.0	4.8	0.0	0.5	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49
178	IC	2	0.10	1.416	32.0	0.0	5.1	4.9	0.0	0.5	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49
179	IC	2	0.00	1.416	32.0	0.0	5.3	5.2	0.0	0.6	0.0	20.0	0.5	1.40	44.0	0.023	0.023	7.3	0.622	0.26	0.00	0.00	0.00	0.27	1.49

SPECIAL REPORT: BayouBlue#1

WATER QUALITY CONSTITUENT VALUES

ELEM NO.	ENDING km	TEMP deg C	SALN ppt	*	*	CM-I mg/L	CM-II mg/L	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N µg/L	TOTN **	PHOS #/100mL	CHL A *	MACRO	COLI	NCM
1	20.100	31.20	0.0	0.0	0.0	5.05	5.55	0.00	5.55	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
2	20.000	31.21	0.0	0.0	0.0	5.11	5.55	0.00	5.55	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
3	19.900	31.21	0.0	0.0	0.0	5.16	5.56	0.00	5.56	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
4	19.800	31.22	0.0	0.0	0.0	5.21	5.56	0.00	5.56	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
5	19.700	31.22	0.0	0.0	0.0	5.26	5.57	0.00	5.57	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
6	19.600	31.23	0.0	0.0	0.0	5.31	5.57	0.00	5.57	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
7	19.500	31.23	0.0	0.0	0.0	5.35	5.58	0.00	5.58	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
8	19.400	31.24	0.0	0.0	0.0	5.40	5.58	0.00	5.58	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
9	19.300	31.24	0.0	0.0	0.0	5.44	5.59	0.00	5.59	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
10	19.200	31.25	0.0	0.0	0.0	5.48	5.59	0.00	5.59	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
11	19.100	31.25	0.0	0.0	0.0	5.52	5.60	0.00	5.60	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
12	19.000	31.26	0.0	0.0	0.0	5.56	5.60	0.00	5.60	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
13	18.900	31.26	0.0	0.0	0.0	5.60	5.61	0.00	5.61	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
14	18.800	31.27	0.0	0.0	0.0	5.64	5.61	0.00	5.61	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
15	18.700	31.27	0.0	0.0	0.0	5.68	5.62	0.00	5.62	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
16	18.600	31.28	0.0	0.0	0.0	5.71	5.62	0.00	5.62	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
17	18.500	31.28	0.0	0.0	0.0	5.75	5.63	0.00	5.63	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
18	18.400	31.29	0.0	0.0	0.0	5.78	5.63	0.00	5.63	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
19	18.300	31.29	0.0	0.0	0.0	5.82	5.64	0.00	5.64	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
20	18.200	31.30	0.0	0.0	0.0	5.85	5.64	0.00	5.64	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
21	18.100	31.30	0.0	0.0	0.0	5.88	5.65	0.00	5.65	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
22	18.000	31.31	0.0	0.0	0.0	5.91	5.65	0.00	5.65	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
23	17.900	31.31	0.0	0.0	0.0	5.94	5.66	0.00	5.66	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
24	17.800	31.32	0.0	0.0	0.0	5.97	5.66	0.00	5.66	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
25	17.700	31.32	0.0	0.0	0.0	6.00	5.67	0.00	5.67	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
26	17.600	31.33	0.0	0.0	0.0	6.02	5.67	0.00	5.67	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
27	17.500	31.33	0.0	0.0	0.0	6.05	5.67	0.00	5.67	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
28	17.400	31.34	0.0	0.0	0.0	6.08	5.68	0.00	5.68	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
29	17.300	31.34	0.0	0.0	0.0	6.10	5.68	0.00	5.68	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
30	17.200	31.35	0.0	0.0	0.0	6.13	5.69	0.00	5.69	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
31	17.100	31.35	0.0	0.0	0.0	6.15	5.69	0.00	5.69	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
32	17.000	31.36	0.0	0.0	0.0	6.17	5.70	0.00	5.70	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
33	16.900	31.36	0.0	0.0	0.0	6.20	5.70	0.00	5.70	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
34	16.800	31.36	0.0	0.0	0.0	6.22	5.71	0.00	5.71	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
35	16.700	31.37	0.0	0.0	0.0	6.24	5.71	0.00	5.71	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
36	16.600	31.37	0.0	0.0	0.0	6.26	5.72	0.00	5.72	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
37	16.500	31.38	0.0	0.0	0.0	6.28	5.72	0.00	5.72	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
38	16.400	31.38	0.0	0.0	0.0	6.30	5.73	0.00	5.73	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
39	16.300	31.39	0.0	0.0	0.0	6.32	5.73	0.00	5.73	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
40	16.200	31.39	0.0	0.0	0.0	6.34	5.74	0.00	5.74	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
41	16.100	31.40	0.0	0.0	0.0	6.36	5.74	0.00	5.74	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
42	16.000	31.40	0.0	0.0	0.0	6.37	5.75	0.00	5.75	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
43	15.900	31.41	0.0	0.0	0.0	6.39	5.75	0.00	5.75	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
44	15.800	31.41	0.0	0.0	0.0	6.41	5.76	0.00	5.76	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
45	15.700	31.42	0.0	0.0	0.0	6.42	5.76	0.00	5.76	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
46	15.600	31.42	0.0	0.0	0.0	6.44	5.77	0.00	5.77	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		
47	15.500	31.43	0.0	0.0	0.0	6.46	5.77	0.00	5.77	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00		

48	15.400	31.43	0.0	0.0	0.0	6.47	5.78	0.00	5.78	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00
49	15.300	31.44	0.0	0.0	0.0	6.48	5.78	0.00	5.78	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00
50	15.200	31.44	0.0	0.0	0.0	6.50	5.79	0.00	5.79	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00
51	15.100	31.45	0.0	0.0	0.0	6.51	5.79	0.00	5.79	0.00	1.16	0.11	0.00	1.27	0.00	20.0	0.0	0.	0.00
52	15.000	31.45	0.0	0.0	0.0	6.53	5.80	0.00	5.80	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
53	14.900	31.46	0.0	0.0	0.0	6.54	5.80	0.00	5.80	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
54	14.800	31.46	0.0	0.0	0.0	6.55	5.80	0.00	5.80	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
55	14.700	31.47	0.0	0.0	0.0	6.56	5.81	0.00	5.81	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
56	14.600	31.47	0.0	0.0	0.0	6.58	5.81	0.00	5.81	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
57	14.500	31.48	0.0	0.0	0.0	6.59	5.82	0.00	5.82	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
58	14.400	31.48	0.0	0.0	0.0	6.60	5.82	0.00	5.82	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
59	14.300	31.49	0.0	0.0	0.0	6.61	5.83	0.00	5.83	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
60	14.200	31.49	0.0	0.0	0.0	6.62	5.83	0.00	5.83	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
61	14.100	31.50	0.0	0.0	0.0	6.63	5.84	0.00	5.84	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
62	14.000	31.50	0.0	0.0	0.0	6.64	5.84	0.00	5.84	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
63	13.900	31.51	0.0	0.0	0.0	6.65	5.85	0.00	5.85	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
64	13.800	31.51	0.0	0.0	0.0	6.66	5.85	0.00	5.85	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
65	13.700	31.52	0.0	0.0	0.0	6.67	5.86	0.00	5.86	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
66	13.600	31.52	0.0	0.0	0.0	6.68	5.86	0.00	5.86	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
67	13.500	31.52	0.0	0.0	0.0	6.68	5.87	0.00	5.87	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
68	13.400	31.53	0.0	0.0	0.0	6.69	5.87	0.00	5.87	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
69	13.300	31.53	0.0	0.0	0.0	6.70	5.88	0.00	5.88	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
70	13.200	31.54	0.0	0.0	0.0	6.71	5.88	0.00	5.88	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
71	13.100	31.54	0.0	0.0	0.0	6.72	5.89	0.00	5.89	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
72	13.000	31.55	0.0	0.0	0.0	6.72	5.89	0.00	5.89	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
73	12.900	31.55	0.0	0.0	0.0	6.73	5.90	0.00	5.90	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
74	12.800	31.56	0.0	0.0	0.0	6.74	5.90	0.00	5.90	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
75	12.700	31.56	0.0	0.0	0.0	6.74	5.91	0.00	5.91	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
76	12.600	31.57	0.0	0.0	0.0	6.75	5.91	0.00	5.91	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
77	12.500	31.57	0.0	0.0	0.0	6.76	5.92	0.00	5.92	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
78	12.400	31.58	0.0	0.0	0.0	6.76	5.92	0.00	5.92	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
79	12.300	31.58	0.0	0.0	0.0	6.77	5.93	0.00	5.93	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
80	12.200	31.59	0.0	0.0	0.0	6.78	5.93	0.00	5.93	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
81	12.100	31.59	0.0	0.0	0.0	6.78	5.94	0.00	5.94	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
82	12.000	31.60	0.0	0.0	0.0	6.79	5.94	0.00	5.94	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
83	11.900	31.60	0.0	0.0	0.0	6.79	5.95	0.00	5.95	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
84	11.800	31.61	0.0	0.0	0.0	6.80	5.95	0.00	5.95	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
85	11.700	31.61	0.0	0.0	0.0	6.80	5.96	0.00	5.96	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
86	11.600	31.62	0.0	0.0	0.0	6.81	5.96	0.00	5.96	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
87	11.500	31.62	0.0	0.0	0.0	6.81	5.97	0.00	5.97	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
88	11.400	31.63	0.0	0.0	0.0	6.82	5.97	0.00	5.97	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
89	11.300	31.63	0.0	0.0	0.0	6.82	5.98	0.00	5.98	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
90	11.200	31.64	0.0	0.0	0.0	6.82	5.98	0.00	5.98	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
91	11.100	31.64	0.0	0.0	0.0	6.83	5.99	0.00	5.99	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
92	11.000	31.65	0.0	0.0	0.0	6.83	5.99	0.00	5.99	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
93	10.900	31.65	0.0	0.0	0.0	6.84	6.00	0.00	6.00	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
94	10.800	31.66	0.0	0.0	0.0	6.84	6.00	0.00	6.00	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
95	10.700	31.66	0.0	0.0	0.0	6.84	6.01	0.00	6.01	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
96	10.600	31.67	0.0	0.0	0.0	6.85	6.01	0.00	6.01	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
97	10.500	31.67	0.0	0.0	0.0	6.85	6.02	0.00	6.02	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00

98	10.400	31.68	0.0	0.0	0.0	6.85	6.02	0.00	6.02	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
99	10.300	31.68	0.0	0.0	0.0	6.86	6.03	0.00	6.03	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
100	10.200	31.68	0.0	0.0	0.0	6.86	6.03	0.00	6.03	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
101	10.100	31.69	0.0	0.0	0.0	6.86	6.03	0.00	6.03	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
102	10.000	31.69	0.0	0.0	0.0	6.86	6.04	0.00	6.04	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
103	9.900	31.70	0.0	0.0	0.0	6.87	6.04	0.00	6.04	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
104	9.800	31.70	0.0	0.0	0.0	6.87	6.05	0.00	6.05	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
105	9.700	31.71	0.0	0.0	0.0	6.87	6.05	0.00	6.05	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
106	9.600	31.71	0.0	0.0	0.0	6.87	6.06	0.00	6.06	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
107	9.500	31.72	0.0	0.0	0.0	6.88	6.06	0.00	6.06	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
108	9.400	31.72	0.0	0.0	0.0	6.88	6.07	0.00	6.07	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
109	9.300	31.73	0.0	0.0	0.0	6.88	6.07	0.00	6.07	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
110	9.200	31.73	0.0	0.0	0.0	6.88	6.08	0.00	6.08	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
111	9.100	31.74	0.0	0.0	0.0	6.88	6.08	0.00	6.08	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
112	9.000	31.74	0.0	0.0	0.0	6.89	6.09	0.00	6.09	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
113	8.900	31.75	0.0	0.0	0.0	6.89	6.09	0.00	6.09	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
114	8.800	31.75	0.0	0.0	0.0	6.89	6.10	0.00	6.10	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
115	8.700	31.76	0.0	0.0	0.0	6.89	6.10	0.00	6.10	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
116	8.600	31.76	0.0	0.0	0.0	6.89	6.11	0.00	6.11	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
117	8.500	31.77	0.0	0.0	0.0	6.89	6.11	0.00	6.11	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
118	8.400	31.77	0.0	0.0	0.0	6.90	6.12	0.00	6.12	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
119	8.300	31.78	0.0	0.0	0.0	6.90	6.14	0.00	6.14	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
120	8.200	31.78	0.0	0.0	0.0	6.90	6.14	0.00	6.14	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
121	8.100	31.79	0.0	0.0	0.0	6.90	6.15	0.00	6.15	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
122	8.000	31.79	0.0	0.0	0.0	6.90	6.15	0.00	6.15	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
123	7.900	31.80	0.0	0.0	0.0	6.90	6.16	0.00	6.16	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
124	7.800	31.80	0.0	0.0	0.0	6.90	6.16	0.00	6.16	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
125	7.700	31.81	0.0	0.0	0.0	6.90	6.17	0.00	6.17	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
126	7.600	31.81	0.0	0.0	0.0	6.90	6.17	0.00	6.17	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
127	7.500	31.82	0.0	0.0	0.0	6.91	6.18	0.00	6.18	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
128	7.400	31.82	0.0	0.0	0.0	6.91	6.18	0.00	6.18	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
129	7.300	31.83	0.0	0.0	0.0	6.91	6.18	0.00	6.18	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
130	7.200	31.83	0.0	0.0	0.0	6.91	6.19	0.00	6.19	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
131	7.100	31.84	0.0	0.0	0.0	6.91	6.19	0.00	6.19	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
132	7.000	31.84	0.0	0.0	0.0	6.91	6.20	0.00	6.20	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
133	6.900	31.84	0.0	0.0	0.0	6.91	6.20	0.00	6.20	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
134	6.800	31.85	0.0	0.0	0.0	6.91	6.21	0.00	6.21	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
135	6.700	31.85	0.0	0.0	0.0	6.91	6.21	0.00	6.21	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
136	6.600	31.86	0.0	0.0	0.0	6.91	6.22	0.00	6.22	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
137	6.500	31.86	0.0	0.0	0.0	6.91	6.22	0.00	6.22	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
138	6.400	31.87	0.0	0.0	0.0	6.91	6.23	0.00	6.23	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
139	6.300	31.87	0.0	0.0	0.0	6.91	6.23	0.00	6.23	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
140	6.200	31.88	0.0	0.0	0.0	6.91	6.23	0.00	6.23	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
141	6.100	31.88	0.0	0.0	0.0	6.91	6.24	0.00	6.24	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
142	6.000	31.89	0.0	0.0	0.0	6.92	6.24	0.00	6.24	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
143	5.900	31.89	0.0	0.0	0.0	6.92	6.25	0.00	6.25	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
144	5.800	31.90	0.0	0.0	0.0	6.92	6.25	0.00	6.25	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
145	5.700	31.90	0.0	0.0	0.0	6.92	6.26	0.00	6.26	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
146	5.600	31.91	0.0	0.0	0.0	6.92	6.26	0.00	6.26	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
147	5.500	31.91	0.0	0.0	0.0	6.92	6.27	0.00	6.27	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00

148	5.400	31.92	0.0	0.0	0.0	6.92	6.27	0.00	6.27	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
149	5.300	31.92	0.0	0.0	0.0	6.92	6.27	0.00	6.27	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
150	5.200	31.93	0.0	0.0	0.0	6.92	6.28	0.00	6.28	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
151	5.100	31.93	0.0	0.0	0.0	6.92	6.28	0.00	6.28	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
152	5.000	31.94	0.0	0.0	0.0	6.92	6.29	0.00	6.29	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
153	4.900	31.94	0.0	0.0	0.0	6.92	6.29	0.00	6.29	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
154	4.800	31.95	0.0	0.0	0.0	6.92	6.30	0.00	6.30	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
155	4.700	31.95	0.0	0.0	0.0	6.92	6.30	0.00	6.30	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
156	4.600	31.96	0.0	0.0	0.0	6.92	6.31	0.00	6.31	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
157	4.500	31.96	0.0	0.0	0.0	6.92	6.31	0.00	6.31	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
158	4.400	31.97	0.0	0.0	0.0	6.92	6.31	0.00	6.31	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
159	4.300	31.97	0.0	0.0	0.0	6.92	6.32	0.00	6.32	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
160	4.200	31.98	0.0	0.0	0.0	6.92	6.32	0.00	6.32	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
161	4.100	31.98	0.0	0.0	0.0	6.92	6.33	0.00	6.33	0.00	1.15	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
162	4.000	31.99	0.0	0.0	0.0	6.92	6.33	0.00	6.33	0.00	1.14	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
163	3.900	31.99	0.0	0.0	0.0	6.92	6.34	0.00	6.34	0.00	1.14	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
164	3.800	32.00	0.0	0.0	0.0	6.92	6.34	0.00	6.34	0.00	1.14	0.11	0.00	1.26	0.00	20.0	0.0	0.	0.00
165	3.700	32.00	0.0	0.0	0.0	6.84	6.29	0.00	6.29	0.00	1.12	0.11	0.00	1.23	0.00	20.0	0.0	0.	0.00
180	3.600	31.98	0.0	0.0	0.0	6.03	5.75	0.00	5.75	0.00	0.84	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
181	3.500	31.97	0.0	0.0	0.0	6.02	5.78	0.00	5.78	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
182	3.400	31.95	0.0	0.0	0.0	6.02	5.82	0.00	5.82	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
183	3.300	31.94	0.0	0.0	0.0	6.01	5.86	0.00	5.86	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
184	3.200	31.92	0.0	0.0	0.0	6.01	5.90	0.00	5.90	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
185	3.100	31.90	0.0	0.0	0.0	6.01	5.94	0.00	5.94	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
186	3.000	31.89	0.0	0.0	0.0	6.00	5.97	0.00	5.97	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
187	2.900	31.87	0.0	0.0	0.0	6.00	6.01	0.00	6.01	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
188	2.800	31.85	0.0	0.0	0.0	5.99	6.05	0.00	6.05	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
189	2.700	31.84	0.0	0.0	0.0	5.99	6.08	0.00	6.08	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
190	2.600	31.82	0.0	0.0	0.0	5.98	6.12	0.00	6.12	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
191	2.500	31.81	0.0	0.0	0.0	5.98	6.16	0.00	6.16	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
192	2.400	31.79	0.0	0.0	0.0	5.97	6.19	0.00	6.19	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
193	2.300	31.77	0.0	0.0	0.0	5.97	6.23	0.00	6.23	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
194	2.200	31.76	0.0	0.0	0.0	5.96	6.26	0.00	6.26	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
195	2.100	31.74	0.0	0.0	0.0	5.96	6.30	0.00	6.30	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
196	2.000	31.72	0.0	0.0	0.0	5.96	6.34	0.00	6.34	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
197	1.900	31.71	0.0	0.0	0.0	5.95	6.37	0.00	6.37	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
198	1.800	31.69	0.0	0.0	0.0	5.95	6.41	0.00	6.41	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
199	1.700	31.68	0.0	0.0	0.0	5.94	6.44	0.00	6.44	0.00	0.83	0.08	0.00	0.91	0.00	20.0	0.0	0.	0.00
200	1.600	31.66	0.0	0.0	0.0	5.94	6.48	0.00	6.48	0.00	0.83	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00
201	1.500	31.64	0.0	0.0	0.0	5.93	6.51	0.00	6.51	0.00	0.83	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00
202	1.400	31.63	0.0	0.0	0.0	5.93	6.54	0.00	6.54	0.00	0.83	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00
203	1.300	31.61	0.0	0.0	0.0	5.92	6.58	0.00	6.58	0.00	0.82	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00
204	1.200	31.59	0.0	0.0	0.0	5.92	6.61	0.00	6.61	0.00	0.82	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00
205	1.100	31.58	0.0	0.0	0.0	5.92	6.65	0.00	6.65	0.00	0.82	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00
206	1.000	31.56	0.0	0.0	0.0	5.91	6.68	0.00	6.68	0.00	0.82	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00
207	0.900	31.55	0.0	0.0	0.0	5.91	6.71	0.00	6.71	0.00	0.82	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00
208	0.800	31.53	0.0	0.0	0.0	5.90	6.75	0.00	6.75	0.00	0.82	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00
209	0.700	31.51	0.0	0.0	0.0	5.90	6.78	0.00	6.78	0.00	0.82	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00
210	0.600	31.50	0.0	0.0	0.0	5.89	6.81	0.00	6.81	0.00	0.82	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00
211	0.500	31.48	0.0	0.0	0.0	5.89	6.85	0.00	6.85	0.00	0.82	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00

212	0.400	31.46	0.0	0.0	0.0	5.89	6.88	0.00	6.88	0.00	0.82	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00	
213	0.300	31.45	0.0	0.0	0.0	5.88	6.91	0.00	6.91	0.00	0.82	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00	
214	0.200	31.43	0.0	0.0	0.0	5.88	6.94	0.00	6.94	0.00	0.82	0.08	0.00	0.90	0.00	20.0	0.0	0.	0.00	
215	0.100	31.42	0.0	0.0	0.0	5.86	6.93	0.00	6.93	0.00	0.81	0.08	0.00	0.89	0.00	20.0	0.0	0.	0.00	
216	0.000	31.40	0.0	0.0	0.0	5.71	6.53	0.00	6.53	0.00	0.69	0.08	0.00	0.77	0.00	20.0	0.0	0.	0.00	

SPECIAL REPORT: ICWWtoBlue

WATER QUALITY CONSTITUENT VALUES

ELEM	ENDING	TEMP	SALN	CM-I	CM-II	DO	BOD1	BOD2	EBOD#1	EBOD#2	ORG-N	NH3-N	NO3-N	TOTN	PHOS	CHL A	MACRO	COLI	NCM
NO.	km	deg C	ppt	*	*	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	**			#/100mL	*
166	1.300	32.00	0.0	0.0	0.0	5.01	3.94	0.00	3.94	0.00	0.49	0.04	0.00	0.53	0.00	20.0	0.0	0.	0.00	
167	1.200	32.00	0.0	0.0	0.0	5.02	4.02	0.00	4.02	0.00	0.49	0.04	0.00	0.53	0.00	20.0	0.0	0.	0.00	
168	1.100	32.00	0.0	0.0	0.0	5.03	4.11	0.00	4.11	0.00	0.49	0.04	0.00	0.53	0.00	20.0	0.0	0.	0.00	
169	1.000	32.00	0.0	0.0	0.0	5.03	4.20	0.00	4.20	0.00	0.49	0.04	0.00	0.53	0.00	20.0	0.0	0.	0.00	
170	0.900	32.00	0.0	0.0	0.0	5.04	4.28	0.00	4.28	0.00	0.49	0.04	0.00	0.53	0.00	20.0	0.0	0.	0.00	
171	0.800	32.00	0.0	0.0	0.0	5.04	4.36	0.00	4.36	0.00	0.49	0.04	0.00	0.53	0.00	20.0	0.0	0.	0.00	
172	0.700	32.00	0.0	0.0	0.0	5.04	4.44	0.00	4.44	0.00	0.49	0.04	0.00	0.53	0.00	20.0	0.0	0.	0.00	
173	0.600	32.00	0.0	0.0	0.0	5.04	4.52	0.00	4.52	0.00	0.48	0.04	0.00	0.53	0.00	20.0	0.0	0.	0.00	
174	0.500	32.00	0.0	0.0	0.0	5.04	4.60	0.00	4.60	0.00	0.48	0.04	0.00	0.52	0.00	20.0	0.0	0.	0.00	
175	0.400	32.00	0.0	0.0	0.0	5.04	4.68	0.00	4.68	0.00	0.48	0.04	0.00	0.52	0.00	20.0	0.0	0.	0.00	
176	0.300	32.00	0.0	0.0	0.0	5.04	4.76	0.00	4.76	0.00	0.48	0.04	0.00	0.52	0.00	20.0	0.0	0.	0.00	
177	0.200	32.00	0.0	0.0	0.0	5.04	4.84	0.00	4.84	0.00	0.49	0.04	0.00	0.53	0.00	20.0	0.0	0.	0.00	
178	0.100	32.00	0.0	0.0	0.0	5.07	4.94	0.00	4.94	0.00	0.50	0.04	0.00	0.54	0.00	20.0	0.0	0.	0.00	
179	0.000	32.00	0.0	0.0	0.0	5.26	5.15	0.00	5.15	0.00	0.57	0.05	0.00	0.62	0.00	20.0	0.0	0.	0.00	

SPECIAL REPORT: BayouBlue#1

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM	ENDING	SAT	REAER	BOD#1	BOD#1	ABOD#1	BOD#1	BOD#2	ABOD#2	FULL	CORR	ORG-N	ORG-N	NH3	NH3	DENIT	PO4	ALG	MAC	COLI	NCM	NCM
NO.	DIST	D.O.	RATE	DECAY	SETT	DECAY	DECAY	SETT	DECAY	SOD	SOD	DECAY	SETT	DECAY	SRCE	RATE	SRCE	PROD	PROD	DECAY	DECAY	SETT
	km	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da
1	20.100	7.40	8.03	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
2	20.000	7.40	8.03	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
3	19.900	7.40	8.03	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
4	19.800	7.40	8.03	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
5	19.700	7.40	8.03	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
6	19.600	7.40	8.03	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
7	19.500	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
8	19.400	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
9	19.300	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
10	19.200	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
11	19.100	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
12	19.000	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
13	18.900	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
14	18.800	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
15	18.700	7.40	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
16	18.600	7.39	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
17	18.500	7.39	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
18	18.400	7.39	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
19	18.300	7.39	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
20	18.200	7.39	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
21	18.100	7.39	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
22	18.000	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00

23	17.900	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
24	17.800	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
25	17.700	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
26	17.600	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
27	17.500	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
28	17.400	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
29	17.300	7.39	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
30	17.200	7.39	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
31	17.100	7.39	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
32	17.000	7.39	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
33	16.900	7.38	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
34	16.800	7.38	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
35	16.700	7.38	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
36	16.600	7.38	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
37	16.500	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
38	16.400	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
39	16.300	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
40	16.200	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
41	16.100	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
42	16.000	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
43	15.900	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
44	15.800	7.38	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
45	15.700	7.38	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
46	15.600	7.38	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
47	15.500	7.38	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
48	15.400	7.38	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
49	15.300	7.37	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
50	15.200	7.37	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
51	15.100	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
52	15.000	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
53	14.900	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
54	14.800	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
55	14.700	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
56	14.600	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
57	14.500	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
58	14.400	7.37	8.11	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
59	14.300	7.37	8.11	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
60	14.200	7.37	8.11	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
61	14.100	7.37	8.11	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
62	14.000	7.37	8.11	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
63	13.900	7.37	7.75	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
64	13.800	7.37	7.75	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
65	13.700	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
66	13.600	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
67	13.500	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
68	13.400	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
69	13.300	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
70	13.200	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
71	13.100	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
72	13.000	7.36	7.77	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00

73	12.900	7.36	7.77	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
74	12.800	7.36	7.77	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
75	12.700	7.36	7.77	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
76	12.600	7.36	7.77	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
77	12.500	7.36	7.77	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
78	12.400	7.36	7.77	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
79	12.300	7.36	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
80	12.200	7.36	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
81	12.100	7.36	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
82	12.000	7.35	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
83	11.900	7.35	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
84	11.800	7.35	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
85	11.700	7.35	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
86	11.600	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
87	11.500	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
88	11.400	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
89	11.300	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
90	11.200	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
91	11.100	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
92	11.000	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
93	10.900	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
94	10.800	7.35	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
95	10.700	7.35	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
96	10.600	7.35	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
97	10.500	7.35	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
98	10.400	7.34	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
99	10.300	7.34	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
100	10.200	7.34	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
101	10.100	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
102	10.000	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
103	9.900	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
104	9.800	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
105	9.700	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
106	9.600	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
107	9.500	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
108	9.400	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
109	9.300	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
110	9.200	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
111	9.100	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
112	9.000	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
113	8.900	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
114	8.800	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
115	8.700	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
116	8.600	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
117	8.500	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
118	8.400	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
119	8.300	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
120	8.200	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
121	8.100	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
122	8.000	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00

123	7.900	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
124	7.800	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
125	7.700	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
126	7.600	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
127	7.500	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
128	7.400	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
129	7.300	7.33	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
130	7.200	7.33	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
131	7.100	7.33	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
132	7.000	7.32	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
133	6.900	7.32	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
134	6.800	7.32	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
135	6.700	7.32	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
136	6.600	7.32	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
137	6.500	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
138	6.400	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
139	6.300	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
140	6.200	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
141	6.100	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
142	6.000	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
143	5.900	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
144	5.800	7.32	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
145	5.700	7.32	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
146	5.600	7.32	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
147	5.500	7.32	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
148	5.400	7.31	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
149	5.300	7.31	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
150	5.200	7.31	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
151	5.100	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
152	5.000	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
153	4.900	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
154	4.800	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
155	4.700	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
156	4.600	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
157	4.500	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
158	4.400	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
159	4.300	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
160	4.200	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
161	4.100	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
162	4.000	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
163	3.900	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
164	3.800	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
165	3.700	7.30	7.90	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
180	3.600	7.31	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
181	3.500	7.31	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
182	3.400	7.31	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
183	3.300	7.31	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
184	3.200	7.31	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
185	3.100	7.32	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
186	3.000	7.32	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

187	2.900	7.32	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
188	2.800	7.32	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
189	2.700	7.32	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
190	2.600	7.33	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
191	2.500	7.33	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
192	2.400	7.33	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
193	2.300	7.33	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
194	2.200	7.33	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
195	2.100	7.34	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
196	2.000	7.34	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
197	1.900	7.34	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
198	1.800	7.34	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
199	1.700	7.34	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
200	1.600	7.35	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
201	1.500	7.35	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
202	1.400	7.35	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
203	1.300	7.35	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
204	1.200	7.36	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
205	1.100	7.36	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
206	1.000	7.36	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
207	0.900	7.36	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
208	0.800	7.36	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
209	0.700	7.37	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
210	0.600	7.37	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
211	0.500	7.37	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
212	0.400	7.37	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
213	0.300	7.37	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
214	0.200	7.38	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
215	0.100	7.38	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
216	0.000	7.38	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00

SPECIAL REPORT: ICWWtoBlue

BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#1 SETT	BOD#2 DECAY	ABOD#2 SOD	FULL SOD	CORR DECAY	ORG-N SETT	ORG-N DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	km	mg/L	1/da	1/da	1/da	1/da	1/da	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da			
166	1.300	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
167	1.200	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
168	1.100	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
169	1.000	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
170	0.900	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
171	0.800	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
172	0.700	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
173	0.600	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
174	0.500	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
175	0.400	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
176	0.300	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
177	0.200	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
178	0.100	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		
179	0.000	7.30	0.62	0.26	0.00	0.00	0.00	0.00	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00		

REACH NO. 1 BayouBlue#1

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

ELEM NO.	TYPE	FLOW	TEMP deg C	SALN ppt	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 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 µg/L	CHL A #/100mL	COLI	NCM
1	HDWTR	1.72700	31.30	0.00	0.00	0.00	5.00	5.54	0.00	5.54	0.00	1.16	0.11	0.00	0.00	20.00	0.00	0.00
EACH	INCR	0.00030	30.00	0.00	0.00	0.00	5.00	5.54	0.00			1.16	0.11	0.00	0.00	0.00	0.00	
63	WSTLD	-0.15091	31.51	0.00	0.00	0.00	6.65	5.85	0.00	5.85	0.00	1.15	0.11	0.00	0.00	20.00	0.00	0.00
119	WSTLD	0.00020	30.00	0.00	0.00	0.00	5.00	69.00	0.00	69.00	0.00	5.00	10.00	0.00	0.00	0.00	0.00	0.00
119	WSTLD	0.00017	30.00	0.00	0.00	0.00	5.00	103.50	0.00	103.50	0.00	7.50	15.00	0.00	0.00	0.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s
1	20.20	20.10	1.72730	0.0	0.34546	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.345
2	20.10	20.00	1.72761	0.0	0.34552	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
3	20.00	19.90	1.72791	0.0	0.34558	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
4	19.90	19.80	1.72821	0.0	0.34564	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
5	19.80	19.70	1.72852	0.0	0.34570	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
6	19.70	19.60	1.72882	0.0	0.34576	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
7	19.60	19.50	1.72912	0.0	0.34582	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
8	19.50	19.40	1.72942	0.0	0.34588	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
9	19.40	19.30	1.72973	0.0	0.34595	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
10	19.30	19.20	1.73003	0.0	0.34601	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
11	19.20	19.10	1.73033	0.0	0.34607	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
12	19.10	19.00	1.73064	0.0	0.34613	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
13	19.00	18.90	1.73094	0.0	0.34619	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
14	18.90	18.80	1.73124	0.0	0.34625	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
15	18.80	18.70	1.73155	0.0	0.34631	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
16	18.70	18.60	1.73185	0.0	0.34637	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
17	18.60	18.50	1.73215	0.0	0.34643	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
18	18.50	18.40	1.73245	0.0	0.34649	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.346
19	18.40	18.30	1.73276	0.0	0.34655	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
20	18.30	18.20	1.73306	0.0	0.34661	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
21	18.20	18.10	1.73336	0.0	0.34667	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
22	18.10	18.00	1.73367	0.0	0.34673	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
23	18.00	17.90	1.73397	0.0	0.34679	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
24	17.90	17.80	1.73427	0.0	0.34685	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
25	17.80	17.70	1.73458	0.0	0.34692	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
26	17.70	17.60	1.73488	0.0	0.34698	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
27	17.60	17.50	1.73518	0.0	0.34704	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
28	17.50	17.40	1.73548	0.0	0.34710	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
29	17.40	17.30	1.73579	0.0	0.34716	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
30	17.30	17.20	1.73609	0.0	0.34722	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
31	17.20	17.10	1.73639	0.0	0.34728	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
32	17.10	17.00	1.73670	0.0	0.34734	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
33	17.00	16.90	1.73700	0.0	0.34740	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
34	16.90	16.80	1.73730	0.0	0.34746	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.347
35	16.80	16.70	1.73761	0.0	0.34752	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
36	16.70	16.60	1.73791	0.0	0.34758	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
37	16.60	16.50	1.73821	0.0	0.34764	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348

38	16.50	16.40	1.73852	0.0	0.34770	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
39	16.40	16.30	1.73882	0.0	0.34776	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
40	16.30	16.20	1.73912	0.0	0.34782	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
41	16.20	16.10	1.73942	0.0	0.34788	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
42	16.10	16.00	1.73973	0.0	0.34795	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
43	16.00	15.90	1.74003	0.0	0.34801	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
44	15.90	15.80	1.74033	0.0	0.34807	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
45	15.80	15.70	1.74064	0.0	0.34813	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
46	15.70	15.60	1.74094	0.0	0.34819	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
47	15.60	15.50	1.74124	0.0	0.34825	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
48	15.50	15.40	1.74155	0.0	0.34831	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
49	15.40	15.30	1.74185	0.0	0.34837	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
50	15.30	15.20	1.74215	0.0	0.34843	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
51	15.20	15.10	1.74245	0.0	0.34849	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.348
52	15.10	15.00	1.74276	0.0	0.34855	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.349
53	15.00	14.90	1.74306	0.0	0.34861	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.349
54	14.90	14.80	1.74336	0.0	0.34867	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.349
55	14.80	14.70	1.74367	0.0	0.34873	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.349
56	14.70	14.60	1.74397	0.0	0.34879	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.349
57	14.60	14.50	1.74427	0.0	0.34885	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.349
58	14.50	14.40	1.74458	0.0	0.34892	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.349
59	14.40	14.30	1.74488	0.0	0.34898	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.349
60	14.30	14.20	1.74518	0.0	0.34904	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.349
61	14.20	14.10	1.74548	0.0	0.34910	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.349
62	14.10	14.00	1.74579	0.0	0.34916	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.349
63	14.00	13.90	1.59518	0.0	0.31904	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.319
64	13.90	13.80	1.59548	0.0	0.31910	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.319
65	13.80	13.70	1.59579	0.0	0.31916	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.319
66	13.70	13.60	1.59609	0.0	0.31922	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.319
67	13.60	13.50	1.59639	0.0	0.31928	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.319
68	13.50	13.40	1.59670	0.0	0.31934	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.319
69	13.40	13.30	1.59700	0.0	0.31940	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.319
70	13.30	13.20	1.59730	0.0	0.31946	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.319
71	13.20	13.10	1.59761	0.0	0.31952	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
72	13.10	13.00	1.59791	0.0	0.31958	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
73	13.00	12.90	1.59821	0.0	0.31964	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
74	12.90	12.80	1.59851	0.0	0.31970	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
75	12.80	12.70	1.59882	0.0	0.31976	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
76	12.70	12.60	1.59912	0.0	0.31982	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
77	12.60	12.50	1.59942	0.0	0.31988	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
78	12.50	12.40	1.59973	0.0	0.31995	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
79	12.40	12.30	1.60003	0.0	0.32001	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
80	12.30	12.20	1.60033	0.0	0.32007	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
81	12.20	12.10	1.60064	0.0	0.32013	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
82	12.10	12.00	1.60094	0.0	0.32019	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
83	12.00	11.90	1.60124	0.0	0.32025	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
84	11.90	11.80	1.60154	0.0	0.32031	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
85	11.80	11.70	1.60185	0.0	0.32037	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
86	11.70	11.60	1.60215	0.0	0.32043	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320
87	11.60	11.50	1.60245	0.0	0.32049	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.320

88	11.50	11.40	1.60276	0.0	0.32055	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
89	11.40	11.30	1.60306	0.0	0.32061	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
90	11.30	11.20	1.60336	0.0	0.32067	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
91	11.20	11.10	1.60367	0.0	0.32073	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
92	11.10	11.00	1.60397	0.0	0.32079	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
93	11.00	10.90	1.60427	0.0	0.32085	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
94	10.90	10.80	1.60457	0.0	0.32091	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
95	10.80	10.70	1.60488	0.0	0.32098	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
96	10.70	10.60	1.60518	0.0	0.32104	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
97	10.60	10.50	1.60548	0.0	0.32110	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
98	10.50	10.40	1.60579	0.0	0.32116	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
99	10.40	10.30	1.60609	0.0	0.32122	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
100	10.30	10.20	1.60639	0.0	0.32128	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
101	10.20	10.10	1.60670	0.0	0.32134	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
102	10.10	10.00	1.60700	0.0	0.32140	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
103	10.00	9.90	1.60730	0.0	0.32146	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.321
104	9.90	9.80	1.60761	0.0	0.32152	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
105	9.80	9.70	1.60791	0.0	0.32158	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
106	9.70	9.60	1.60821	0.0	0.32164	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
107	9.60	9.50	1.60851	0.0	0.32170	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
108	9.50	9.40	1.60882	0.0	0.32176	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
109	9.40	9.30	1.60912	0.0	0.32182	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
110	9.30	9.20	1.60942	0.0	0.32188	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
111	9.20	9.10	1.60973	0.0	0.32195	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
112	9.10	9.00	1.61003	0.0	0.32201	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
113	9.00	8.90	1.61033	0.0	0.32207	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
114	8.90	8.80	1.61064	0.0	0.32213	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
115	8.80	8.70	1.61094	0.0	0.32219	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
116	8.70	8.60	1.61124	0.0	0.32225	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
117	8.60	8.50	1.61154	0.0	0.32231	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
118	8.50	8.40	1.61185	0.0	0.32237	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.322
119	8.40	8.30	1.61252	0.0	0.32250	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
120	8.30	8.20	1.61282	0.0	0.32256	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
121	8.20	8.10	1.61313	0.0	0.32263	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
122	8.10	8.00	1.61343	0.0	0.32269	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
123	8.00	7.90	1.61373	0.0	0.32275	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
124	7.90	7.80	1.61404	0.0	0.32281	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
125	7.80	7.70	1.61434	0.0	0.32287	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
126	7.70	7.60	1.61464	0.0	0.32293	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
127	7.60	7.50	1.61494	0.0	0.32299	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
128	7.50	7.40	1.61525	0.0	0.32305	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
129	7.40	7.30	1.61555	0.0	0.32311	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
130	7.30	7.20	1.61585	0.0	0.32317	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
131	7.20	7.10	1.61616	0.0	0.32323	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
132	7.10	7.00	1.61646	0.0	0.32329	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
133	7.00	6.90	1.61676	0.0	0.32335	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
134	6.90	6.80	1.61707	0.0	0.32341	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
135	6.80	6.70	1.61737	0.0	0.32347	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.323
136	6.70	6.60	1.61767	0.0	0.32353	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
137	6.60	6.50	1.61798	0.0	0.32360	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324

138	6.50	6.40	1.61828	0.0	0.32366	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
139	6.40	6.30	1.61858	0.0	0.32372	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
140	6.30	6.20	1.61888	0.0	0.32378	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
141	6.20	6.10	1.61919	0.0	0.32384	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
142	6.10	6.00	1.61949	0.0	0.32390	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
143	6.00	5.90	1.61979	0.0	0.32396	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
144	5.90	5.80	1.62010	0.0	0.32402	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
145	5.80	5.70	1.62040	0.0	0.32408	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
146	5.70	5.60	1.62070	0.0	0.32414	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
147	5.60	5.50	1.62101	0.0	0.32420	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
148	5.50	5.40	1.62131	0.0	0.32426	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
149	5.40	5.30	1.62161	0.0	0.32432	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
150	5.30	5.20	1.62191	0.0	0.32438	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
151	5.20	5.10	1.62222	0.0	0.32444	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.324
152	5.10	5.00	1.62252	0.0	0.32450	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
153	5.00	4.90	1.62282	0.0	0.32456	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
154	4.90	4.80	1.62313	0.0	0.32463	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
155	4.80	4.70	1.62343	0.0	0.32469	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
156	4.70	4.60	1.62373	0.0	0.32475	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
157	4.60	4.50	1.62404	0.0	0.32481	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
158	4.50	4.40	1.62434	0.0	0.32487	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
159	4.40	4.30	1.62464	0.0	0.32493	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
160	4.30	4.20	1.62494	0.0	0.32499	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
161	4.20	4.10	1.62525	0.0	0.32505	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
162	4.10	4.00	1.62555	0.0	0.32511	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
163	4.00	3.90	1.62585	0.0	0.32517	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
164	3.90	3.80	1.62616	0.0	0.32523	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
165	3.80	3.70	1.62646	0.0	0.32529	0.00	0.50	10.00	500.00	1000.00	5.00	0.00	0.000	0.500	0.325
TOT					0.58				82500.00	165000.00					
AVG				0.3312		0.50	10.00				5.00				
CUM					0.58										

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	mg/L		1/da	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da	
1	20.100	7.40	8.03	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
2	20.000	7.40	8.03	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.25	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
3	19.900	7.40	8.03	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
4	19.800	7.40	8.03	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
5	19.700	7.40	8.03	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
6	19.600	7.40	8.03	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
7	19.500	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
8	19.400	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.01	1.01	1.01	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
9	19.300	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
10	19.200	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
11	19.100	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
12	19.000	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
13	18.900	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
14	18.800	7.40	8.04	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.02	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	
15	18.700	7.40	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	

16	18.600	7.39	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
17	18.500	7.39	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
18	18.400	7.39	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
19	18.300	7.39	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
20	18.200	7.39	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
21	18.100	7.39	8.05	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
22	18.000	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
23	17.900	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
24	17.800	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
25	17.700	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
26	17.600	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.26	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00
27	17.500	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
28	17.400	7.39	8.06	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
29	17.300	7.39	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
30	17.200	7.39	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
31	17.100	7.39	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
32	17.000	7.39	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
33	16.900	7.38	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
34	16.800	7.38	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
35	16.700	7.38	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
36	16.600	7.38	8.07	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
37	16.500	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
38	16.400	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
39	16.300	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
40	16.200	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
41	16.100	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
42	16.000	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
43	15.900	7.38	8.08	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
44	15.800	7.38	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
45	15.700	7.38	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
46	15.600	7.38	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
47	15.500	7.38	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
48	15.400	7.38	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
49	15.300	7.37	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
50	15.200	7.37	8.09	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
51	15.100	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
52	15.000	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
53	14.900	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
54	14.800	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
55	14.700	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
56	14.600	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
57	14.500	7.37	8.10	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
58	14.400	7.37	8.11	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
59	14.300	7.37	8.11	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
60	14.200	7.37	8.11	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
61	14.100	7.37	8.11	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
62	14.000	7.37	8.11	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
63	13.900	7.37	7.75	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
64	13.800	7.37	7.75	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
65	13.700	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00

66	13.600	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
67	13.500	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
68	13.400	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
69	13.300	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
70	13.200	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
71	13.100	7.36	7.76	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
72	13.000	7.36	7.77	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
73	12.900	7.36	7.77	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
74	12.800	7.36	7.77	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
75	12.700	7.36	7.77	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
76	12.600	7.36	7.77	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
77	12.500	7.36	7.77	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
78	12.400	7.36	7.77	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
79	12.300	7.36	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
80	12.200	7.36	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
81	12.100	7.36	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
82	12.000	7.35	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
83	11.900	7.35	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
84	11.800	7.35	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
85	11.700	7.35	7.78	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
86	11.600	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
87	11.500	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
88	11.400	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
89	11.300	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
90	11.200	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
91	11.100	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
92	11.000	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
93	10.900	7.35	7.79	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
94	10.800	7.35	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
95	10.700	7.35	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
96	10.600	7.35	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
97	10.500	7.35	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
98	10.400	7.34	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
99	10.300	7.34	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
100	10.200	7.34	7.80	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
101	10.100	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
102	10.000	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
103	9.900	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
104	9.800	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
105	9.700	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
106	9.600	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
107	9.500	7.34	7.81	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
108	9.400	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
109	9.300	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
110	9.200	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
111	9.100	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
112	9.000	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
113	8.900	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
114	8.800	7.34	7.82	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
115	8.700	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00

116	8.600	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
117	8.500	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
118	8.400	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
119	8.300	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
120	8.200	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
121	8.100	7.33	7.83	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
122	8.000	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
123	7.900	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
124	7.800	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
125	7.700	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
126	7.600	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
127	7.500	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
128	7.400	7.33	7.84	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
129	7.300	7.33	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
130	7.200	7.33	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
131	7.100	7.33	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
132	7.000	7.32	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
133	6.900	7.32	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
134	6.800	7.32	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
135	6.700	7.32	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
136	6.600	7.32	7.85	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
137	6.500	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
138	6.400	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
139	6.300	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
140	6.200	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
141	6.100	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
142	6.000	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
143	5.900	7.32	7.86	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
144	5.800	7.32	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
145	5.700	7.32	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
146	5.600	7.32	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
147	5.500	7.32	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
148	5.400	7.31	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
149	5.300	7.31	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
150	5.200	7.31	7.87	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
151	5.100	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
152	5.000	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
153	4.900	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
154	4.800	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
155	4.700	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
156	4.600	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
157	4.500	7.31	7.88	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
158	4.400	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
159	4.300	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
160	4.200	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
161	4.100	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
162	4.000	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
163	3.900	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
164	3.800	7.31	7.89	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
165	3.700	7.30	7.90	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00

AVG 20 DEG C RATE 6.40 0.15 0.00 0.00 0.00 0.00 0.00 0.50 0.02 0.00 0.13 0.00 0.00 0.00 0.00 0.00 0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL				
1	20.100	31.20	0.00	0.00	0.00	5.05	5.55	0.00	5.55	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
2	20.000	31.21	0.00	0.00	0.00	5.11	5.55	0.00	5.55	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
3	19.900	31.21	0.00	0.00	0.00	5.16	5.56	0.00	5.56	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
4	19.800	31.22	0.00	0.00	0.00	5.21	5.56	0.00	5.56	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
5	19.700	31.22	0.00	0.00	0.00	5.26	5.57	0.00	5.57	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
6	19.600	31.23	0.00	0.00	0.00	5.31	5.57	0.00	5.57	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
7	19.500	31.23	0.00	0.00	0.00	5.35	5.58	0.00	5.58	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
8	19.400	31.24	0.00	0.00	0.00	5.40	5.58	0.00	5.58	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
9	19.300	31.24	0.00	0.00	0.00	5.44	5.59	0.00	5.59	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
10	19.200	31.25	0.00	0.00	0.00	5.48	5.59	0.00	5.59	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
11	19.100	31.25	0.00	0.00	0.00	5.52	5.60	0.00	5.60	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
12	19.000	31.26	0.00	0.00	0.00	5.56	5.60	0.00	5.60	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
13	18.900	31.26	0.00	0.00	0.00	5.60	5.61	0.00	5.61	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
14	18.800	31.27	0.00	0.00	0.00	5.64	5.61	0.00	5.61	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
15	18.700	31.27	0.00	0.00	0.00	5.68	5.62	0.00	5.62	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
16	18.600	31.28	0.00	0.00	0.00	5.71	5.62	0.00	5.62	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
17	18.500	31.28	0.00	0.00	0.00	5.75	5.63	0.00	5.63	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
18	18.400	31.29	0.00	0.00	0.00	5.78	5.63	0.00	5.63	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
19	18.300	31.29	0.00	0.00	0.00	5.82	5.64	0.00	5.64	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
20	18.200	31.30	0.00	0.00	0.00	5.85	5.64	0.00	5.64	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
21	18.100	31.30	0.00	0.00	0.00	5.88	5.65	0.00	5.65	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
22	18.000	31.31	0.00	0.00	0.00	5.91	5.65	0.00	5.65	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
23	17.900	31.31	0.00	0.00	0.00	5.94	5.66	0.00	5.66	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
24	17.800	31.32	0.00	0.00	0.00	5.97	5.66	0.00	5.66	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
25	17.700	31.32	0.00	0.00	0.00	6.00	5.67	0.00	5.67	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
26	17.600	31.33	0.00	0.00	0.00	6.02	5.67	0.00	5.67	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
27	17.500	31.33	0.00	0.00	0.00	6.05	5.67	0.00	5.67	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
28	17.400	31.34	0.00	0.00	0.00	6.08	5.68	0.00	5.68	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
29	17.300	31.34	0.00	0.00	0.00	6.10	5.68	0.00	5.68	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
30	17.200	31.35	0.00	0.00	0.00	6.13	5.69	0.00	5.69	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
31	17.100	31.35	0.00	0.00	0.00	6.15	5.69	0.00	5.69	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
32	17.000	31.36	0.00	0.00	0.00	6.17	5.70	0.00	5.70	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
33	16.900	31.36	0.00	0.00	0.00	6.20	5.70	0.00	5.70	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
34	16.800	31.36	0.00	0.00	0.00	6.22	5.71	0.00	5.71	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
35	16.700	31.37	0.00	0.00	0.00	6.24	5.71	0.00	5.71	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
36	16.600	31.37	0.00	0.00	0.00	6.26	5.72	0.00	5.72	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
37	16.500	31.38	0.00	0.00	0.00	6.28	5.72	0.00	5.72	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
38	16.400	31.38	0.00	0.00	0.00	6.30	5.73	0.00	5.73	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
39	16.300	31.39	0.00	0.00	0.00	6.32	5.73	0.00	5.73	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
40	16.200	31.39	0.00	0.00	0.00	6.34	5.74	0.00	5.74	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
41	16.100	31.40	0.00	0.00	0.00	6.36	5.74	0.00	5.74	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
42	16.000	31.40	0.00	0.00	0.00	6.37	5.75	0.00	5.75	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
43	15.900	31.41	0.00	0.00	0.00	6.39	5.75	0.00	5.75	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
44	15.800	31.41	0.00	0.00	0.00	6.41	5.76	0.00	5.76	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
45	15.700	31.42	0.00	0.00	0.00	6.42	5.76	0.00	5.76	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00

46	15.600	31.42	0.00	0.00	0.00	6.44	5.77	0.00	5.77	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
47	15.500	31.43	0.00	0.00	0.00	6.46	5.77	0.00	5.77	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
48	15.400	31.43	0.00	0.00	0.00	6.47	5.78	0.00	5.78	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
49	15.300	31.44	0.00	0.00	0.00	6.48	5.78	0.00	5.78	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
50	15.200	31.44	0.00	0.00	0.00	6.50	5.79	0.00	5.79	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
51	15.100	31.45	0.00	0.00	0.00	6.51	5.79	0.00	5.79	0.00	1.16	0.11	0.00	1.27	0.00	20.00	0.00	0.	0.00
52	15.000	31.45	0.00	0.00	0.00	6.53	5.80	0.00	5.80	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
53	14.900	31.46	0.00	0.00	0.00	6.54	5.80	0.00	5.80	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
54	14.800	31.46	0.00	0.00	0.00	6.55	5.80	0.00	5.80	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
55	14.700	31.47	0.00	0.00	0.00	6.56	5.81	0.00	5.81	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
56	14.600	31.47	0.00	0.00	0.00	6.58	5.81	0.00	5.81	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
57	14.500	31.48	0.00	0.00	0.00	6.59	5.82	0.00	5.82	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
58	14.400	31.48	0.00	0.00	0.00	6.60	5.82	0.00	5.82	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
59	14.300	31.49	0.00	0.00	0.00	6.61	5.83	0.00	5.83	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
60	14.200	31.49	0.00	0.00	0.00	6.62	5.83	0.00	5.83	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
61	14.100	31.50	0.00	0.00	0.00	6.63	5.84	0.00	5.84	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
62	14.000	31.50	0.00	0.00	0.00	6.64	5.84	0.00	5.84	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
63	13.900	31.51	0.00	0.00	0.00	6.65	5.85	0.00	5.85	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
64	13.800	31.51	0.00	0.00	0.00	6.66	5.85	0.00	5.85	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
65	13.700	31.52	0.00	0.00	0.00	6.67	5.86	0.00	5.86	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
66	13.600	31.52	0.00	0.00	0.00	6.68	5.86	0.00	5.86	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
67	13.500	31.52	0.00	0.00	0.00	6.68	5.87	0.00	5.87	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
68	13.400	31.53	0.00	0.00	0.00	6.69	5.87	0.00	5.87	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
69	13.300	31.53	0.00	0.00	0.00	6.70	5.88	0.00	5.88	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
70	13.200	31.54	0.00	0.00	0.00	6.71	5.88	0.00	5.88	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
71	13.100	31.54	0.00	0.00	0.00	6.72	5.89	0.00	5.89	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
72	13.000	31.55	0.00	0.00	0.00	6.72	5.89	0.00	5.89	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
73	12.900	31.55	0.00	0.00	0.00	6.73	5.90	0.00	5.90	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
74	12.800	31.56	0.00	0.00	0.00	6.74	5.90	0.00	5.90	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
75	12.700	31.56	0.00	0.00	0.00	6.74	5.91	0.00	5.91	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
76	12.600	31.57	0.00	0.00	0.00	6.75	5.91	0.00	5.91	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
77	12.500	31.57	0.00	0.00	0.00	6.76	5.92	0.00	5.92	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
78	12.400	31.58	0.00	0.00	0.00	6.76	5.92	0.00	5.92	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
79	12.300	31.58	0.00	0.00	0.00	6.77	5.93	0.00	5.93	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
80	12.200	31.59	0.00	0.00	0.00	6.78	5.93	0.00	5.93	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
81	12.100	31.59	0.00	0.00	0.00	6.78	5.94	0.00	5.94	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
82	12.000	31.60	0.00	0.00	0.00	6.79	5.94	0.00	5.94	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
83	11.900	31.60	0.00	0.00	0.00	6.79	5.95	0.00	5.95	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
84	11.800	31.61	0.00	0.00	0.00	6.80	5.95	0.00	5.95	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
85	11.700	31.61	0.00	0.00	0.00	6.80	5.96	0.00	5.96	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
86	11.600	31.62	0.00	0.00	0.00	6.81	5.96	0.00	5.96	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
87	11.500	31.62	0.00	0.00	0.00	6.81	5.97	0.00	5.97	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
88	11.400	31.63	0.00	0.00	0.00	6.82	5.97	0.00	5.97	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
89	11.300	31.63	0.00	0.00	0.00	6.82	5.98	0.00	5.98	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
90	11.200	31.64	0.00	0.00	0.00	6.82	5.98	0.00	5.98	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
91	11.100	31.64	0.00	0.00	0.00	6.83	5.99	0.00	5.99	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
92	11.000	31.65	0.00	0.00	0.00	6.83	5.99	0.00	5.99	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
93	10.900	31.65	0.00	0.00	0.00	6.84	6.00	0.00	6.00	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
94	10.800	31.66	0.00	0.00	0.00	6.84	6.00	0.00	6.00	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
95	10.700	31.66	0.00	0.00	0.00	6.84	6.01	0.00	6.01	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00

96	10.600	31.67	0.00	0.00	0.00	6.85	6.01	0.00	6.01	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
97	10.500	31.67	0.00	0.00	0.00	6.85	6.02	0.00	6.02	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
98	10.400	31.68	0.00	0.00	0.00	6.85	6.02	0.00	6.02	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
99	10.300	31.68	0.00	0.00	0.00	6.86	6.03	0.00	6.03	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
100	10.200	31.68	0.00	0.00	0.00	6.86	6.03	0.00	6.03	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
101	10.100	31.69	0.00	0.00	0.00	6.86	6.03	0.00	6.03	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
102	10.000	31.69	0.00	0.00	0.00	6.86	6.04	0.00	6.04	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
103	9.900	31.70	0.00	0.00	0.00	6.87	6.04	0.00	6.04	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
104	9.800	31.70	0.00	0.00	0.00	6.87	6.05	0.00	6.05	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
105	9.700	31.71	0.00	0.00	0.00	6.87	6.05	0.00	6.05	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
106	9.600	31.71	0.00	0.00	0.00	6.87	6.06	0.00	6.06	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
107	9.500	31.72	0.00	0.00	0.00	6.88	6.06	0.00	6.06	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
108	9.400	31.72	0.00	0.00	0.00	6.88	6.07	0.00	6.07	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
109	9.300	31.73	0.00	0.00	0.00	6.88	6.07	0.00	6.07	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
110	9.200	31.73	0.00	0.00	0.00	6.88	6.08	0.00	6.08	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
111	9.100	31.74	0.00	0.00	0.00	6.88	6.08	0.00	6.08	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
112	9.000	31.74	0.00	0.00	0.00	6.89	6.09	0.00	6.09	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
113	8.900	31.75	0.00	0.00	0.00	6.89	6.09	0.00	6.09	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
114	8.800	31.75	0.00	0.00	0.00	6.89	6.10	0.00	6.10	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
115	8.700	31.76	0.00	0.00	0.00	6.89	6.10	0.00	6.10	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
116	8.600	31.76	0.00	0.00	0.00	6.89	6.11	0.00	6.11	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
117	8.500	31.77	0.00	0.00	0.00	6.89	6.11	0.00	6.11	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
118	8.400	31.77	0.00	0.00	0.00	6.90	6.12	0.00	6.12	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
119	8.300	31.78	0.00	0.00	0.00	6.90	6.14	0.00	6.14	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
120	8.200	31.78	0.00	0.00	0.00	6.90	6.14	0.00	6.14	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
121	8.100	31.79	0.00	0.00	0.00	6.90	6.15	0.00	6.15	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
122	8.000	31.79	0.00	0.00	0.00	6.90	6.15	0.00	6.15	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
123	7.900	31.80	0.00	0.00	0.00	6.90	6.16	0.00	6.16	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
124	7.800	31.80	0.00	0.00	0.00	6.90	6.16	0.00	6.16	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
125	7.700	31.81	0.00	0.00	0.00	6.90	6.17	0.00	6.17	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
126	7.600	31.81	0.00	0.00	0.00	6.90	6.17	0.00	6.17	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
127	7.500	31.82	0.00	0.00	0.00	6.91	6.18	0.00	6.18	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
128	7.400	31.82	0.00	0.00	0.00	6.91	6.18	0.00	6.18	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
129	7.300	31.83	0.00	0.00	0.00	6.91	6.18	0.00	6.18	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
130	7.200	31.83	0.00	0.00	0.00	6.91	6.19	0.00	6.19	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
131	7.100	31.84	0.00	0.00	0.00	6.91	6.19	0.00	6.19	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
132	7.000	31.84	0.00	0.00	0.00	6.91	6.20	0.00	6.20	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
133	6.900	31.84	0.00	0.00	0.00	6.91	6.20	0.00	6.20	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
134	6.800	31.85	0.00	0.00	0.00	6.91	6.21	0.00	6.21	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
135	6.700	31.85	0.00	0.00	0.00	6.91	6.21	0.00	6.21	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
136	6.600	31.86	0.00	0.00	0.00	6.91	6.22	0.00	6.22	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
137	6.500	31.86	0.00	0.00	0.00	6.91	6.22	0.00	6.22	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
138	6.400	31.87	0.00	0.00	0.00	6.91	6.23	0.00	6.23	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
139	6.300	31.87	0.00	0.00	0.00	6.91	6.23	0.00	6.23	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
140	6.200	31.88	0.00	0.00	0.00	6.91	6.23	0.00	6.23	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
141	6.100	31.88	0.00	0.00	0.00	6.91	6.24	0.00	6.24	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
142	6.000	31.89	0.00	0.00	0.00	6.92	6.24	0.00	6.24	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
143	5.900	31.89	0.00	0.00	0.00	6.92	6.25	0.00	6.25	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
144	5.800	31.90	0.00	0.00	0.00	6.92	6.25	0.00	6.25	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
145	5.700	31.90	0.00	0.00	0.00	6.92	6.26	0.00	6.26	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00

146	5.600	31.91	0.00	0.00	0.00	6.92	6.26	0.00	6.26	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
147	5.500	31.91	0.00	0.00	0.00	6.92	6.27	0.00	6.27	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
148	5.400	31.92	0.00	0.00	0.00	6.92	6.27	0.00	6.27	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
149	5.300	31.92	0.00	0.00	0.00	6.92	6.27	0.00	6.27	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
150	5.200	31.93	0.00	0.00	0.00	6.92	6.28	0.00	6.28	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
151	5.100	31.93	0.00	0.00	0.00	6.92	6.28	0.00	6.28	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
152	5.000	31.94	0.00	0.00	0.00	6.92	6.29	0.00	6.29	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
153	4.900	31.94	0.00	0.00	0.00	6.92	6.29	0.00	6.29	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
154	4.800	31.95	0.00	0.00	0.00	6.92	6.30	0.00	6.30	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
155	4.700	31.95	0.00	0.00	0.00	6.92	6.30	0.00	6.30	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
156	4.600	31.96	0.00	0.00	0.00	6.92	6.31	0.00	6.31	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
157	4.500	31.96	0.00	0.00	0.00	6.92	6.31	0.00	6.31	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
158	4.400	31.97	0.00	0.00	0.00	6.92	6.31	0.00	6.31	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
159	4.300	31.97	0.00	0.00	0.00	6.92	6.32	0.00	6.32	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
160	4.200	31.98	0.00	0.00	0.00	6.92	6.32	0.00	6.32	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
161	4.100	31.98	0.00	0.00	0.00	6.92	6.33	0.00	6.33	0.00	1.15	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
162	4.000	31.99	0.00	0.00	0.00	6.92	6.33	0.00	6.33	0.00	1.14	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
163	3.900	31.99	0.00	0.00	0.00	6.92	6.34	0.00	6.34	0.00	1.14	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
164	3.800	32.00	0.00	0.00	0.00	6.92	6.34	0.00	6.34	0.00	1.14	0.11	0.00	1.26	0.00	20.00	0.00	0.	0.00
165	3.700	32.00	0.00	0.00	0.00	6.84	6.29	0.00	6.29	0.00	1.12	0.11	0.00	1.23	0.00	20.00	0.00	0.	0.00

FINAL REPORT BayouBlue#1 LA-QUAL TMDL for Bayou Blue

REACH NO. 3 BayouBlue#2

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

ELEM NO.	TYPE	FLOW	TEMP	SALN	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	PHOS	CHL A	COLI	NCM
		deg C	ppt		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	#/100mL			
180	UPR RCH	1.62646	32.00	0.00	0.00	0.00	6.84	6.29	0.00	6.29	0.00	1.12	0.11	0.00	0.00	20.00	0.00	0.00
180	TRIB	1.41600	32.00	0.00	0.00	0.00	5.26	5.15	0.00	5.15	0.00	0.57	0.05	0.00	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST	ENDING DIST	FLOW	PCT EFF	ADVCTV VELO	TRAVEL TIME	DEPTH	WIDTH	VOLUME	SURFACE AREA	X-SECT AREA	TIDAL PRISM	TIDAL VELO	DISPRSN	MEAN VELO
	km	km	m³/s		m/s	days	m	m	m³	m²	m²	m³	m/s	m²/s	m/s
180	3.70	3.60	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
181	3.60	3.50	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
182	3.50	3.40	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
183	3.40	3.30	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
184	3.30	3.20	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
185	3.20	3.10	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
186	3.10	3.00	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
187	3.00	2.90	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
188	2.90	2.80	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
189	2.80	2.70	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
190	2.70	2.60	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
191	2.60	2.50	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
192	2.50	2.40	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
193	2.40	2.30	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
194	2.30	2.20	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
195	2.20	2.10	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
196	2.10	2.00	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
197	2.00	1.90	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052
198	1.90	1.80	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052

199	1.80	1.70	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
200	1.70	1.60	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
201	1.60	1.50	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
202	1.50	1.40	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
203	1.40	1.30	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
204	1.30	1.20	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
205	1.20	1.10	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
206	1.10	1.00	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
207	1.00	0.90	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
208	0.90	0.80	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
209	0.80	0.70	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
210	0.70	0.60	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
211	0.60	0.50	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
212	0.50	0.40	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
213	0.40	0.30	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
214	0.30	0.20	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
215	0.20	0.10	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
216	0.10	0.00	3.04246	0.0	0.05161	0.02	0.90	65.50	5895.00	6550.00	58.95	0.00	0.000	0.500	0.052	
TOT					0.83				218114.98	242350.00						
AVG					0.0516		0.90	65.50			58.95					
CUM					1.41											

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	BOD#1 DECAY	ABOD#1 DECAY	BOD#2 SETT	BOD#2 DECAY	ABOD#2 SOD	BKGD SOD	FULL SOD	CORR DECAY	ORGN SETT	ORGN DECAY	NH3 SRCE	NH3 RATE	DENIT SRCE	PO4 PROD	ALG PROD	MAC DECAY	COLI DECAY	NCM SETT	NCM
	mg/L	1/da	1/da	1/da	1/da	1/da	1/da	*	*	*	1/da	1/da	1/da	*	1/da	*	**	**	1/da	1/da	1/da			
180	3.600	7.31	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
181	3.500	7.31	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
182	3.400	7.31	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
183	3.300	7.31	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
184	3.200	7.31	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
185	3.100	7.32	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.28	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
186	3.000	7.32	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
187	2.900	7.32	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.06	1.06	1.06	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
188	2.800	7.32	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
189	2.700	7.32	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	
190	2.600	7.33	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
191	2.500	7.33	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
192	2.400	7.33	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
193	2.300	7.33	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
194	2.200	7.33	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
195	2.100	7.34	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
196	2.000	7.34	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
197	1.900	7.34	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.05	1.05	1.05	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
198	1.800	7.34	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
199	1.700	7.34	1.30	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
200	1.600	7.35	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
201	1.500	7.35	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
202	1.400	7.35	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
203	1.300	7.35	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	
204	1.200	7.36	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	

205	1.100	7.36	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00
206	1.000	7.36	1.29	0.26	0.00	0.00	0.00	0.00	0.00	1.04	1.04	1.04	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
207	0.900	7.36	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
208	0.800	7.36	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
209	0.700	7.37	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
210	0.600	7.37	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
211	0.500	7.37	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
212	0.400	7.37	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
213	0.300	7.37	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
214	0.200	7.38	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.27	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
215	0.100	7.38	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
216	0.000	7.38	1.29	0.25	0.00	0.00	0.00	0.00	0.00	1.03	1.03	1.03	0.03	0.00	0.26	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			1.05	0.15	0.00	0.00	0.00	0.00	0.00	0.50			0.02	0.00	0.13	0.00	0.00	0.00		0.00	0.00	0.00	

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT		CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	g/m³	#/100mL				
180	3.600	31.98	0.00	0.00	0.00	6.03	5.75	0.00	5.75	0.00	0.84	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
181	3.500	31.97	0.00	0.00	0.00	6.02	5.78	0.00	5.78	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
182	3.400	31.95	0.00	0.00	0.00	6.02	5.82	0.00	5.82	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
183	3.300	31.94	0.00	0.00	0.00	6.01	5.86	0.00	5.86	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
184	3.200	31.92	0.00	0.00	0.00	6.01	5.90	0.00	5.90	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
185	3.100	31.90	0.00	0.00	0.00	6.01	5.94	0.00	5.94	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
186	3.000	31.89	0.00	0.00	0.00	6.00	5.97	0.00	5.97	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
187	2.900	31.87	0.00	0.00	0.00	6.00	6.01	0.00	6.01	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
188	2.800	31.85	0.00	0.00	0.00	5.99	6.05	0.00	6.05	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
189	2.700	31.84	0.00	0.00	0.00	5.99	6.08	0.00	6.08	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
190	2.600	31.82	0.00	0.00	0.00	5.98	6.12	0.00	6.12	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
191	2.500	31.81	0.00	0.00	0.00	5.98	6.16	0.00	6.16	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
192	2.400	31.79	0.00	0.00	0.00	5.97	6.19	0.00	6.19	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
193	2.300	31.77	0.00	0.00	0.00	5.97	6.23	0.00	6.23	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
194	2.200	31.76	0.00	0.00	0.00	5.96	6.26	0.00	6.26	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
195	2.100	31.74	0.00	0.00	0.00	5.96	6.30	0.00	6.30	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
196	2.000	31.72	0.00	0.00	0.00	5.96	6.34	0.00	6.34	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
197	1.900	31.71	0.00	0.00	0.00	5.95	6.37	0.00	6.37	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
198	1.800	31.69	0.00	0.00	0.00	5.95	6.41	0.00	6.41	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
199	1.700	31.68	0.00	0.00	0.00	5.94	6.44	0.00	6.44	0.00	0.83	0.08	0.00	0.91	0.00	20.00	0.00	0.	0.00	
200	1.600	31.66	0.00	0.00	0.00	5.94	6.48	0.00	6.48	0.00	0.83	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00	
201	1.500	31.64	0.00	0.00	0.00	5.93	6.51	0.00	6.51	0.00	0.83	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00	
202	1.400	31.63	0.00	0.00	0.00	5.93	6.54	0.00	6.54	0.00	0.83	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00	
203	1.300	31.61	0.00	0.00	0.00	5.92	6.58	0.00	6.58	0.00	0.82	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00	
204	1.200	31.59	0.00	0.00	0.00	5.92	6.61	0.00	6.61	0.00	0.82	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00	
205	1.100	31.58	0.00	0.00	0.00	5.92	6.65	0.00	6.65	0.00	0.82	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00	
206	1.000	31.56	0.00	0.00	0.00	5.91	6.68	0.00	6.68	0.00	0.82	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00	
207	0.900	31.55	0.00	0.00	0.00	5.91	6.71	0.00	6.71	0.00	0.82	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00	
208	0.800	31.53	0.00	0.00	0.00	5.90	6.75	0.00	6.75	0.00	0.82	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00	
209	0.700	31.51	0.00	0.00	0.00	5.90	6.78	0.00	6.78	0.00	0.82	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00	
210	0.600	31.50	0.00	0.00	0.00	5.89	6.81	0.00	6.81	0.00	0.82	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00	
211	0.500	31.48	0.00	0.00	0.00	5.89	6.85	0.00	6.85	0.00	0.82	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00	
212	0.400	31.46	0.00	0.00	0.00	5.89	6.88	0.00	6.88	0.00	0.82	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00	

213	0.300	31.45	0.00	0.00	0.00	5.88	6.91	0.00	6.91	0.00	0.82	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00
214	0.200	31.43	0.00	0.00	0.00	5.88	6.94	0.00	6.94	0.00	0.82	0.08	0.00	0.90	0.00	20.00	0.00	0.	0.00
215	0.100	31.42	0.00	0.00	0.00	5.86	6.93	0.00	6.93	0.00	0.81	0.08	0.00	0.89	0.00	20.00	0.00	0.	0.00
216	0.000	31.40	0.00	0.00	0.00	5.71	6.53	0.00	6.53	0.00	0.69	0.08	0.00	0.77	0.00	20.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL TMDL for Bayou Blue

BayouBlue#1

TRAVEL TIME = 1.41 DAYS
MAXIMUM EFFLUENT = 0.02 PERCENT
FLOW = 1.59518 TO 3.04246 m³/s
DISPERSION = 0.5000 TO 0.5000 m²/s
VELOCITY = 0.05161 TO 0.34916 m/s
DEPTH = 0.50 TO 0.90 m
WIDTH = 10.00 TO 65.50 m
BOD DECAY = 0.25 TO 0.26 per day
NH3 DECAY = 0.25 TO 0.28 per day
SOD = 1.01 TO 1.06 g/m²/d
NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 1.29 TO 8.11 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.02 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day
TEMPERATURE = 31.20 TO 32.00 deg C
DISSOLVED OXYGEN = 5.05 TO 6.92 mg/L

FINAL REPORT ICWWtoBlue LA-QUAL TMDL for Bayou Blue

REACH NO. 2 ICWWtoBlue

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

ELEM NO.	TYPE	FLOW deg C	TEMP ppt	SALN	CM-I mg/L	CM-II mg/L	DO mg/L	BOD#1 mg/L	BOD#2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORGN mg/L	NH3 µg/L	NO3+2 #/100mL	PHOS	CHL A	COLI	NCM
166	HDWTR	1.41600	31.30	0.00	0.00	0.00	5.00	3.83	0.00	3.83	0.00	0.49	0.04	0.00	0.00	20.00	0.00	0.00

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

ELEM NO.	BEGIN DIST km	ENDING DIST km	FLOW m³/s	PCT EFF	ADVCTV VELO m/s	TRAVEL TIME days	DEPTH m	WIDTH m	VOLUME m³	SURFACE AREA m²	X-SECT AREA m²	TIDAL PRISM m³	TIDAL VELO m/s	DISPRSN m²/s	MEAN VELO m/s	
166	1.40	1.30	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
167	1.30	1.20	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
168	1.20	1.10	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
169	1.10	1.00	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
170	1.00	0.90	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
171	0.90	0.80	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
172	0.80	0.70	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
173	0.70	0.60	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
174	0.60	0.50	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
175	0.50	0.40	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
176	0.40	0.30	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
177	0.30	0.20	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
178	0.20	0.10	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
179	0.10	0.00	1.41600	0.0	0.02299	0.05	1.40	44.00	6160.00	4400.00	61.60	0.00	0.000	0.500	0.023	
TOT					0.70				86240.00	61600.00						
AVG				0.0230		1.40	44.00				61.60					
CUM					0.70											

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

ELEM NO.	ENDING DIST	SAT D.O.	REAER RATE	BOD#1 DECAY	BOD#1 SETT	ABOD#1 DECAY	BOD#2 DECAY	BOD#2 SETT	ABOD#2 DECAY	BKGD SOD	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	*	1/da	*	**	**	1/da	1/da	1/da
166	1.300	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
167	1.200	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
168	1.100	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
169	1.000	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
170	0.900	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
171	0.800	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
172	0.700	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
173	0.600	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
174	0.500	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
175	0.400	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
176	0.300	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
177	0.200	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
178	0.100	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
179	0.000	7.30	0.62	0.26	0.00	0.00	0.00	0.00	0.00	1.49	1.49	1.49	0.03	0.00	0.27	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00
AVG 20 DEG C RATE			0.50	0.15	0.00	0.00	0.00	0.00	0.00	0.70			0.02	0.00	0.13	0.00	0.00	0.00			0.00	0.00	0.00

* g/m²/d ** mg/L/day

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

ELEM NO.	ENDING DIST	TEMP DEG C	SALN PPT	CM-I	CM-II	DO	BOD#1	BOD#2	EBOD#1	EBOD#2	ORGN	NH3	NO3+2	TOTN	PHOS	CHL A	MACRO	COLI	NCM
						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	
166	1.300	32.00	0.00	0.00	0.00	5.01	3.94	0.00	3.94	0.00	0.49	0.04	0.00	0.53	0.00	20.00	0.00	0.	0.00
167	1.200	32.00	0.00	0.00	0.00	5.02	4.02	0.00	4.02	0.00	0.49	0.04	0.00	0.53	0.00	20.00	0.00	0.	0.00
168	1.100	32.00	0.00	0.00	0.00	5.03	4.11	0.00	4.11	0.00	0.49	0.04	0.00	0.53	0.00	20.00	0.00	0.	0.00
169	1.000	32.00	0.00	0.00	0.00	5.03	4.20	0.00	4.20	0.00	0.49	0.04	0.00	0.53	0.00	20.00	0.00	0.	0.00
170	0.900	32.00	0.00	0.00	0.00	5.04	4.28	0.00	4.28	0.00	0.49	0.04	0.00	0.53	0.00	20.00	0.00	0.	0.00
171	0.800	32.00	0.00	0.00	0.00	5.04	4.36	0.00	4.36	0.00	0.49	0.04	0.00	0.53	0.00	20.00	0.00	0.	0.00
172	0.700	32.00	0.00	0.00	0.00	5.04	4.44	0.00	4.44	0.00	0.49	0.04	0.00	0.53	0.00	20.00	0.00	0.	0.00
173	0.600	32.00	0.00	0.00	0.00	5.04	4.52	0.00	4.52	0.00	0.48	0.04	0.00	0.53	0.00	20.00	0.00	0.	0.00
174	0.500	32.00	0.00	0.00	0.00	5.04	4.60	0.00	4.60	0.00	0.48	0.04	0.00	0.52	0.00	20.00	0.00	0.	0.00
175	0.400	32.00	0.00	0.00	0.00	5.04	4.68	0.00	4.68	0.00	0.48	0.04	0.00	0.52	0.00	20.00	0.00	0.	0.00
176	0.300	32.00	0.00	0.00	0.00	5.04	4.76	0.00	4.76	0.00	0.48	0.04	0.00	0.52	0.00	20.00	0.00	0.	0.00
177	0.200	32.00	0.00	0.00	0.00	5.04	4.84	0.00	4.84	0.00	0.49	0.04	0.00	0.53	0.00	20.00	0.00	0.	0.00
178	0.100	32.00	0.00	0.00	0.00	5.07	4.94	0.00	4.94	0.00	0.50	0.04	0.00	0.54	0.00	20.00	0.00	0.	0.00
179	0.000	32.00	0.00	0.00	0.00	5.26	5.15	0.00	5.15	0.00	0.57	0.05	0.00	0.62	0.00	20.00	0.00	0.	0.00

STREAM SUMMARY LA-QUAL TMDL for Bayou Blue

ICWWtoBlue

TRAVEL TIME = 0.70 DAYS

MAXIMUM EFFLUENT = 0.00 PERCENT

FLOW = 1.41600 TO 1.41600 m³/s

DISPERSION = 0.5000 TO 0.5000 m²/s

VELOCITY = 0.02299 TO 0.02299 m/s

DEPTH = 1.40 TO 1.40 m

WIDTH = 44.00 TO 44.00 m

BOD DECAY = 0.26 TO 0.26 per day

NH3 DECAY = 0.27 TO 0.27 per day

SOD = 1.49 TO 1.49 g/m²/d

NH3 SOURCE = 0.00 TO 0.00 g/m²/d
REAERATION = 0.62 TO 0.62 per day
BOD SETTLING = 0.00 TO 0.00 per day
ORG-N DECAY = 0.03 TO 0.03 per day
ORG-N SETTLING = 0.00 TO 0.00 per day
TEMPERATURE = 32.00 TO 32.00 deg C
DISSOLVED OXYGEN = 5.01 TO 5.26 mg/L
LA-QUAL TMDL for Bayou Blue

REACH SUMMARY REPORT FOR BayouBlue#1

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
1	BayouBlue#1	20.20	3.70	16.50	0.58	1.62646	0.33116	0.500	10.00	57.430	1.087	1.640	32.81
3	BayouBlue#2	3.70	0.00	3.70	0.83	3.04246	0.05161	0.900	65.50	107.429	0.169	2.953	214.91

LA-QUAL TMDL for Bayou Blue

REACH SUMMARY REPORT FOR ICWWtoBlue

RCH NO.	REACH NAME	BEGIN DIST km	ENDING DIST km	REACH LENGTH km	TRAVEL TIME days	FLOW AT EOR m3/s	AVERAGE VELO m/s	AVG DEPTH m	AVG WIDTH m	FLOW AT EOR cfs	AVERAGE VELO fps	AVG DEPTH ft	AVG WIDTH ft
2	ICWWtoBlue	1.40	0.00	1.40	0.70	1.41600	0.02299	1.400	44.00	49.999	0.075	4.593	144.36

DISSOLVED OXYGEN LOADING FOR REACH 1: BayouBlue#1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE IN	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM DECA	SOD BKGD	SOD BOD1	SOD ALG	SOD NCM	ALG PHOT	ALG RESP	MAC PHOT	TOT OUT	TOT IN
1	746.	0.	-754.	0.	0.	0.	0.	0.	0.	9.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-756.2	756.2	0.00
2	754.	0.	-762.	0.	0.	0.	0.	0.	0.	9.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-764.3	764.3	0.00
3	762.	0.	-770.	0.	0.	0.	0.	0.	0.	9.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-772.1	772.1	0.00
4	770.	0.	-778.	0.	0.	0.	0.	0.	0.	9.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-779.7	779.7	0.00
5	778.	0.	-785.	0.	0.	0.	0.	0.	0.	9.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-787.1	787.1	0.00
6	785.	0.	-792.	0.	0.	0.	0.	0.	0.	8.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-794.3	794.3	0.00
7	792.	0.	-799.	0.	0.	0.	0.	0.	0.	8.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-801.3	801.3	0.00
8	799.	0.	-806.	0.	0.	0.	0.	0.	0.	8.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-808.1	808.1	0.00
9	806.	0.	-813.	0.	0.	0.	0.	0.	0.	8.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-814.8	814.8	0.00
10	813.	0.	-819.	0.	0.	0.	0.	0.	0.	8.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-821.3	821.3	0.00
11	819.	0.	-826.	0.	0.	0.	0.	0.	0.	8.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-827.6	827.6	0.00
12	826.	0.	-832.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-833.8	833.8	0.00
13	832.	0.	-838.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-839.8	839.8	0.00
14	838.	0.	-844.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-845.6	845.6	0.00
15	844.	0.	-849.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-851.3	851.3	0.00
16	849.	0.	-855.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-856.8	856.8	0.00
17	855.	0.	-860.	0.	0.	0.	0.	0.	0.	7.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-862.2	862.2	0.00
18	860.	0.	-866.	0.	0.	0.	0.	0.	0.	6.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-867.5	867.5	0.00
19	866.	0.	-871.	0.	0.	0.	0.	0.	0.	6.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-872.6	872.6	0.00
20	871.	0.	-876.	0.	0.	0.	0.	0.	0.	6.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-877.6	877.6	0.00
21	876.	0.	-881.	0.	0.	0.	0.	0.	0.	6.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-882.5	882.5	0.00
22	881.	0.	-885.	0.	0.	0.	0.	0.	0.	6.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-887.2	887.2	0.00
23	885.	0.	-890.	0.	0.	0.	0.	0.	0.	6.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-891.8	891.8	0.00
24	890.	0.	-894.	0.	0.	0.	0.	0.	0.	6.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-896.3	896.3	0.00
25	894.	0.	-899.	0.	0.	0.	0.	0.	0.	6.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-900.7	900.7	0.00

26	899.	0.	-903.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-904.9	904.9	0.00		
27	903.	0.	-907.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-909.1	909.1	0.00		
28	907.	0.	-911.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-913.1	913.1	0.00		
29	911.	0.	-915.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-917.1	917.1	0.00		
30	915.	0.	-919.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-920.9	920.9	0.00		
31	919.	0.	-923.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-924.7	924.7	0.00		
32	923.	0.	-926.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-928.3	928.3	0.00		
33	926.	0.	-930.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-931.9	931.9	0.00		
34	930.	0.	-933.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-935.3	935.3	0.00		
35	933.	0.	-937.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-938.7	938.7	0.00		
36	937.	0.	-940.	0.	0.	0.	0.	0.	0.	0.	0.	5.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-942.0	942.0	0.00		
37	940.	0.	-943.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-945.2	945.2	0.00		
38	943.	0.	-946.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-948.3	948.3	0.00		
39	946.	0.	-949.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-951.3	951.3	0.00		
40	949.	0.	-952.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-954.3	954.3	0.00		
41	952.	0.	-955.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-957.2	957.2	0.00		
42	955.	0.	-958.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-960.0	960.0	0.00		
43	958.	0.	-961.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-962.7	962.7	0.00		
44	961.	0.	-964.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-965.4	965.4	0.00		
45	964.	0.	-966.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-968.0	968.0	0.00		
46	966.	0.	-969.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-970.5	970.5	0.00		
47	969.	0.	-971.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-973.0	973.0	0.00		
48	971.	0.	-974.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-975.4	975.4	0.00		
49	974.	0.	-976.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-977.8	977.8	0.00		
50	976.	0.	-978.	0.	0.	0.	0.	0.	0.	0.	0.	4.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-980.1	980.1	0.00		
51	978.	0.	-980.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-982.3	982.3	0.00		
52	980.	0.	-983.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-984.5	984.5	0.00		
53	983.	0.	-985.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-986.6	986.6	0.00		
54	985.	0.	-987.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-988.6	988.6	0.00		
55	987.	0.	-989.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-990.6	990.6	0.00		
56	989.	0.	-991.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-992.6	992.6	0.00		
57	991.	0.	-993.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-994.5	994.5	0.00		
58	993.	0.	-995.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-996.4	996.4	0.00		
59	995.	0.	-996.	0.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-998.2	998.2	0.00		

DISSOLVED OXYGEN LOADING FOR REACH 1: BayouBlue#1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	SOD PHOT	ALG RESP	ALG PHOT	MAC OUT	TOT IN	TOT
60	996.	0.	-998.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-1000.0	1000.0	0.00
61	998.	0.	-1000.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-1001.7	1001.7	0.00
62	1000.	0.	-1002.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-1003.4	1003.4	0.00
63	1002.	0.	-916.	0.	0.	0.	0.	0.	0.	-87.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-1004.9	1004.9	0.00
64	916.	0.	-918.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-919.7	919.7	0.00
65	918.	0.	-919.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-921.1	921.1	0.00
66	919.	0.	-921.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-922.5	922.5	0.00
67	921.	0.	-922.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-923.9	923.9	0.00
68	922.	0.	-923.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-925.2	925.2	0.00
69	923.	0.	-925.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-926.5	926.5	0.00
70	925.	0.	-926.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-927.7	927.7	0.00
71	926.	0.	-927.	0.	0.	0.	0.	0.	0.	0.	3.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-929.0	929.0	0.00
72	927.	0.	-928.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-930.2	930.2	0.00

73	928.	0.	-929.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-931.3	931.3	0.00
74	929.	0.	-931.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-932.5	932.5	0.00
75	931.	0.	-932.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-933.6	933.6	0.00
76	932.	0.	-933.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-934.6	934.6	0.00
77	933.	0.	-934.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-935.7	935.7	0.00
78	934.	0.	-935.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-936.7	936.7	0.00
79	935.	0.	-936.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-937.7	937.7	0.00
80	936.	0.	-937.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-938.7	938.7	0.00
81	937.	0.	-938.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-939.6	939.6	0.00
82	938.	0.	-939.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-940.5	940.5	0.00
83	939.	0.	-940.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-941.4	941.4	0.00
84	940.	0.	-940.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-942.3	942.3	0.00
85	940.	0.	-941.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-943.2	943.2	0.00
86	941.	0.	-942.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-944.0	944.0	0.00
87	942.	0.	-943.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-944.8	944.8	0.00
88	943.	0.	-944.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-945.6	945.6	0.00
89	944.	0.	-945.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-946.4	946.4	0.00
90	945.	0.	-945.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-947.1	947.1	0.00
91	945.	0.	-946.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-947.9	947.9	0.00
92	946.	0.	-947.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-948.6	948.6	0.00
93	947.	0.	-947.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-949.3	949.3	0.00
94	947.	0.	-948.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-950.0	950.0	0.00
95	948.	0.	-949.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-950.6	950.6	0.00
96	949.	0.	-949.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-951.3	951.3	0.00
97	949.	0.	-950.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-951.9	951.9	0.00
98	950.	0.	-951.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-952.5	952.5	0.00
99	951.	0.	-951.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-953.1	953.1	0.00
100	951.	0.	-952.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-953.7	953.7	0.00
101	952.	0.	-952.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-954.3	954.3	0.00
102	952.	0.	-953.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-954.9	954.9	0.00
103	953.	0.	-954.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-955.4	955.4	0.00
104	954.	0.	-954.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-956.0	956.0	0.00
105	954.	0.	-955.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-956.5	956.5	0.00
106	955.	0.	-955.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-957.0	957.0	0.00
107	955.	0.	-956.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-957.5	957.5	0.00
108	956.	0.	-956.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-958.0	958.0	0.00
109	956.	0.	-957.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-958.4	958.4	0.00
110	957.	0.	-957.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-958.9	958.9	0.00
111	957.	0.	-957.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-959.4	959.4	0.00
112	957.	0.	-958.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-959.8	959.8	0.00
113	958.	0.	-958.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-960.2	960.2	0.00
114	958.	0.	-959.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-960.7	960.7	0.00
115	959.	0.	-959.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-961.1	961.1	0.00
116	959.	0.	-960.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-961.5	961.5	0.00
117	960.	0.	-960.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-961.9	961.9	0.00
118	960.	0.	-960.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-962.3	962.3	0.00

DISSOLVED OXYGEN LOADING FOR REACH 1: BayouBlue#1

IOR	UPMN ADV	UPTR ADV	LOWR DISP	UPMN DISP	UPTR DISP	LOWR IN	INCR OUT	INCR IN	NONP IN	WSLD DECA	WITH DECA	REAE DECA	BOD1 DECA	NH3-N BKGD	ORG-N BOD1	NCM ALG	SOD NCM	SOD PHOT	SOD RESP	SOD PHOT	ALG OUT	ALG IN	MAC	TOT	TOT
119	960.	0.	-961.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	0.	-962.8	962.7	-0.09

120	961.	0.	-961.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-963.2	963.2	0.00
121	961.	0.	-962.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-963.5	963.5	0.00
122	962.	0.	-962.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-963.9	963.9	0.00
123	962.	0.	-962.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-964.2	964.2	0.00
124	962.	0.	-963.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-964.5	964.5	0.00
125	963.	0.	-963.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-964.9	964.9	0.00
126	963.	0.	-963.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-965.2	965.2	0.00
127	963.	0.	-964.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-965.5	965.5	0.00
128	964.	0.	-964.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-965.8	965.8	0.00
129	964.	0.	-964.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-966.1	966.1	0.00
130	964.	0.	-964.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-966.4	966.4	0.00
131	964.	0.	-965.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-966.7	966.7	0.00
132	965.	0.	-965.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-967.0	967.0	0.00
133	965.	0.	-965.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-967.3	967.3	0.00
134	965.	0.	-966.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-967.5	967.5	0.00
135	966.	0.	-966.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-967.8	967.8	0.00
136	966.	0.	-966.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-968.1	968.1	0.00
137	966.	0.	-966.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-968.3	968.3	0.00
138	966.	0.	-967.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-968.6	968.6	0.00
139	967.	0.	-967.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-968.8	968.8	0.00
140	967.	0.	-967.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-969.1	969.1	0.00
141	967.	0.	-967.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-969.3	969.3	0.00
142	967.	0.	-968.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-969.5	969.5	0.00
143	968.	0.	-968.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-969.8	969.8	0.00
144	968.	0.	-968.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-970.0	970.0	0.00
145	968.	0.	-968.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-970.2	970.2	0.00
146	968.	0.	-968.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-970.4	970.4	0.00
147	968.	0.	-969.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-970.6	970.6	0.00
148	969.	0.	-969.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-970.8	970.8	0.00
149	969.	0.	-969.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-971.0	971.0	0.00
150	969.	0.	-969.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-971.3	971.2	0.00
151	969.	0.	-970.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-971.4	971.4	0.00
152	970.	0.	-970.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-971.6	971.6	0.00
153	970.	0.	-970.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-971.8	971.8	0.00
154	970.	0.	-970.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-972.0	972.0	0.00
155	970.	0.	-970.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-972.2	972.2	0.00
156	970.	0.	-970.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-972.4	972.4	0.00
157	970.	0.	-971.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-972.6	972.6	0.00
158	971.	0.	-971.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-972.7	972.7	0.00
159	971.	0.	-971.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-972.9	972.9	0.00
160	971.	0.	-971.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-973.1	973.1	0.00
161	971.	0.	-971.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-973.2	973.2	0.00
162	971.	0.	-971.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-973.4	973.4	0.00
163	971.	0.	-972.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-973.6	973.6	0.00
164	972.	0.	-972.	0.	0.	0.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-973.7	973.7	0.00
165	972.	0.	-961.	0.	0.	-11.	0.	0.	0.	0.	0.	2.	-1.	0.	0.	0.	-1.	0.	0.	0.	0.	0.	0.	-974.2	974.2	0.00
180	961.	643.	-1585.	11.	-29.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1630.4	1630.4	0.00
181	1585.	0.	-1583.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1599.9	1599.9	0.00
182	1583.	0.	-1582.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1598.7	1598.7	0.00
183	1582.	0.	-1581.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1597.6	1597.5	0.00

184	1581.	0.	-1580.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1596.4	1596.4	0.00				
185	1580.	0.	-1579.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1595.2	1595.2	0.00				
186	1579.	0.	-1577.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1594.1	1594.1	0.00				
187	1577.	0.	-1576.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1592.9	1592.9	0.00				
188	1576.	0.	-1575.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1591.8	1591.8	0.00				
189	1575.	0.	-1574.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1590.6	1590.6	0.00				
190	1574.	0.	-1573.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1589.5	1589.5	0.00				
191	1573.	0.	-1571.	0.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1588.3	1588.3	0.00				

DISSOLVED OXYGEN LOADING FOR REACH 1: BayouBlue#1

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	ALG PHOT	ALG RESP	MAC PHOT	TOT OUT	TOT IN						
192	1571.	0.	-1570.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1587.2	1587.2	0.00					
193	1570.	0.	-1569.	0.	0.	0.	0.	0.	0.	0.	10.	-9.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1586.0	1586.0	0.00					
194	1569.	0.	-1568.	0.	0.	0.	0.	0.	0.	0.	10.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1584.9	1584.9	0.00					
195	1568.	0.	-1567.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1583.7	1583.7	0.00					
196	1567.	0.	-1565.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1582.6	1582.6	0.00					
197	1565.	0.	-1564.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1581.5	1581.5	0.00					
198	1564.	0.	-1563.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1580.3	1580.3	0.00					
199	1563.	0.	-1562.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1579.2	1579.2	0.00					
200	1562.	0.	-1561.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1578.1	1578.1	0.00					
201	1561.	0.	-1560.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1577.0	1577.0	0.00					
202	1560.	0.	-1559.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1575.9	1575.9	0.00					
203	1559.	0.	-1557.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1574.8	1574.8	0.00					
204	1557.	0.	-1556.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1573.7	1573.7	0.00					
205	1556.	0.	-1555.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1572.6	1572.6	0.00					
206	1555.	0.	-1554.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1571.5	1571.5	0.00					
207	1554.	0.	-1553.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1570.4	1570.4	0.00					
208	1553.	0.	-1552.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1569.3	1569.3	0.00					
209	1552.	0.	-1551.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1568.3	1568.3	0.00					
210	1551.	0.	-1550.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1567.2	1567.2	0.00					
211	1550.	0.	-1548.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1566.1	1566.1	0.00					
212	1548.	0.	-1547.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1565.1	1565.1	0.00					
213	1547.	0.	-1546.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1564.0	1564.0	0.00					
214	1546.	0.	-1545.	0.	0.	0.	0.	0.	0.	0.	11.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1563.0	1563.0	0.00					
215	1545.	0.	-1541.	0.	0.	-4.	0.	0.	0.	0.	0.	12.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1562.1	1562.1	0.00				
216	1541.	0.	-1501.	4.	0.	-44.	0.	0.	0.	0.	0.	13.	-10.	-1.	0.	0.	-7.	0.	0.	0.	5.	0.	0.	-1562.3	1562.3	0.00				

DISSOLVED OXYGEN LOADING FOR REACH 2: ICWWtoBlue

IOR	UPMN ADV	UPTR ADV	LOWR ADV	UPMN DISP	UPTR DISP	LOWR DISP	INCR IN	INCR OUT	NONP IN	WSLD IN	WITH OUT	REAE DECA	BOD1 DECA	NH3-N DECA	ORG-N DECA	NCM BKGD	SOD BOD1	SOD ALG	SOD NCM	ALG PHOT	ALG RESP	MAC PHOT	TOT OUT	TOT IN						
166	612.	0.	-613.	0.	0.	0.	0.	0.	0.	0.	9.	-6.	0.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-626.3	626.3	0.00					
167	613.	0.	-614.	0.	0.	0.	0.	0.	0.	0.	9.	-6.	0.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-627.6	627.6	0.00					
168	614.	0.	-615.	0.	0.	0.	0.	0.	0.	0.	9.	-7.	0.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-628.5	628.5	0.00					
169	615.	0.	-616.	0.	0.	0.	0.	0.	0.	0.	9.	-7.	0.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-629.3	629.3	0.00					
170	616.	0.	-616.	0.	0.	0.	0.	0.	0.	0.	9.	-7.	0.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-629.9	629.9	0.00					
171	616.	0.	-616.	0.	0.	0.	0.	0.	0.	0.	9.	-7.	0.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-630.4	630.4	0.00					
172	616.	0.	-617.	0.	0.	0.	0.	0.	0.	0.	9.	-7.	0.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-630.7	630.7	0.00					
173	617.	0.	-617.	0.	0.	0.	0.	0.	0.	0.	9.	-7.	0.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-630.9	630.9	0.00					
174	617.	0.	-617.	0.	0.	0.	0.	0.	0.	0.	9.	-7.	0.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-631.1	631.1	0.00					
175	617.	0.	-617.	0.	0.	0.	0.	0.	0.	0.	9.	-8.	0.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-631.1	631.1	0.00					
176	617.	0.	-617.	0.	0.	0.	0.	0.	0.	0.	9.	-8.	0.	0.	0.	-7.	0.	0.	0.	6.	0.	0.	-631.0	631.0	0.00					

177 617. 0. -617. 0. 0. 1. 0. 0. 0. 0. 0. 9. -8. 0. 0. 0. -7. 0. 0. 0. 6. 0. 0. -631.5 631.5 0.00
178 617. 0. -620. -1. 0. 5. 0. 0. 0. 0. 0. 9. -8. 0. 0. 0. -7. 0. 0. 0. 6. 0. 0. -635.9 635.9 0.00
179 620. 0. -643. -5. 0. 29. 0. 0. 0. 0. 0. 8. -8. 0. 0. 0. -7. 0. 0. 0. 6. 0. 0. -663.1 663.1 0.00
LA-QUAL TMDL for Bayou Blue

INPUT/OUTPUT LOADING SUMMARY

	FLOW	DO	BOD#1	BOD#2	ORG-N	NH3-N	NO3-N	PHOS	CHL A	NCM
	m^3/s	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d	kg/d		
HEADWATER FLOW	3.143	1357.8	1295.2	0.0	233.0	21.3	0.0	0.0	0.0	0.0
INCREMENTAL INFLOW	0.050	21.6	23.9	0.0	5.0	0.5	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	0.000	0.2	2.7	0.0	0.2	0.4	0.0	0.0	0.0	0.0
WITHDRAWLS	-0.151	-86.7	-76.2	0.0	-15.0	-1.4	0.0	0.0	0.0	0.0
FLOW THRU LOWER BNDRY	-3.042	-1501.4	-1715.2	0.0	-180.3	-21.6	0.0	0.0	0.0	0.0
DISPERSION THRU LOWER BNDRY		-43.9	-127.1	0.0	-34.9	0.9	16.3	0.0	0.0	0.0
DISPERSION THRU HDWTR BNDRY		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-POINT INPUT		0.0	1180.0	0.0	0.0					0.0
NATURAL REAERATION		1042.0								
DAM REAERATION		0.0								
BACKGROUND SOD		-516.2								
BOD#1 DECAY		-583.3	-583.3							
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			-8.0	8.0				
ORG-N SETTLING					0.0	0.0				
NH3 DECAY		-35.1				-8.1	8.1			
BACKGROUND NH3 SOURCE						0.0				
OTHER DENITRIFICATION							0.0			
PHOSPHORUS SOURCE								0.0		
ALGAE PHOTOSYNTHESIS		345.0				0.0	-33.2	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		0.0								0.0
NCM SETTLING		0.0								0.0
TOTAL INPUTS	3.193	2766.5	2501.9	0.0	238.2	31.1	24.4	0.0	0.0	0.0
TOTAL OUTPUTS	-3.193	-2766.6	-2501.9	0.0	-238.2	-31.1	-33.2	0.0	0.0	0.0
NET CONVERGENCE ERROR	0.000	-0.1	0.0	0.0	0.0	0.0	-8.8	0.0	0.0	0.0

.....EXECUTION COMPLETED

APPENDIX I:
PLOTS OF WATER QUALITY FOR BASELINE CONDITIONS

Figure I-1. Predicted ammonia results for subsegment 120202. 1
Figure I-2. Predicted BOD_u results for subsegment 120202..... 1
Figure I-3. Predicted DO results for subsegment 120202..... 2
Figure I-4. Predicted ammonia results for subsegment 120204. 2
Figure I-5. Predicted BOD_u results for subsegment 120204..... 3
Figure I-6. Predicted DO results for subsegment 120204..... 3
Figure I-7. Predicted ammonia results for subsegments 120304 and 120403. 4
Figure I-8. Predicted BOD_u results for subsegments 120304 and 120403. 4
Figure I-9. Predicted DO results for subsegments 120304 and 120403. 5
Figure I-10. Predicted ammonia results for subsegment 120604. 5
Figure I-11. Predicted BOD_u results for subsegment 120604..... 6
Figure I-12. Predicted DO results for subsegment 120604..... 6

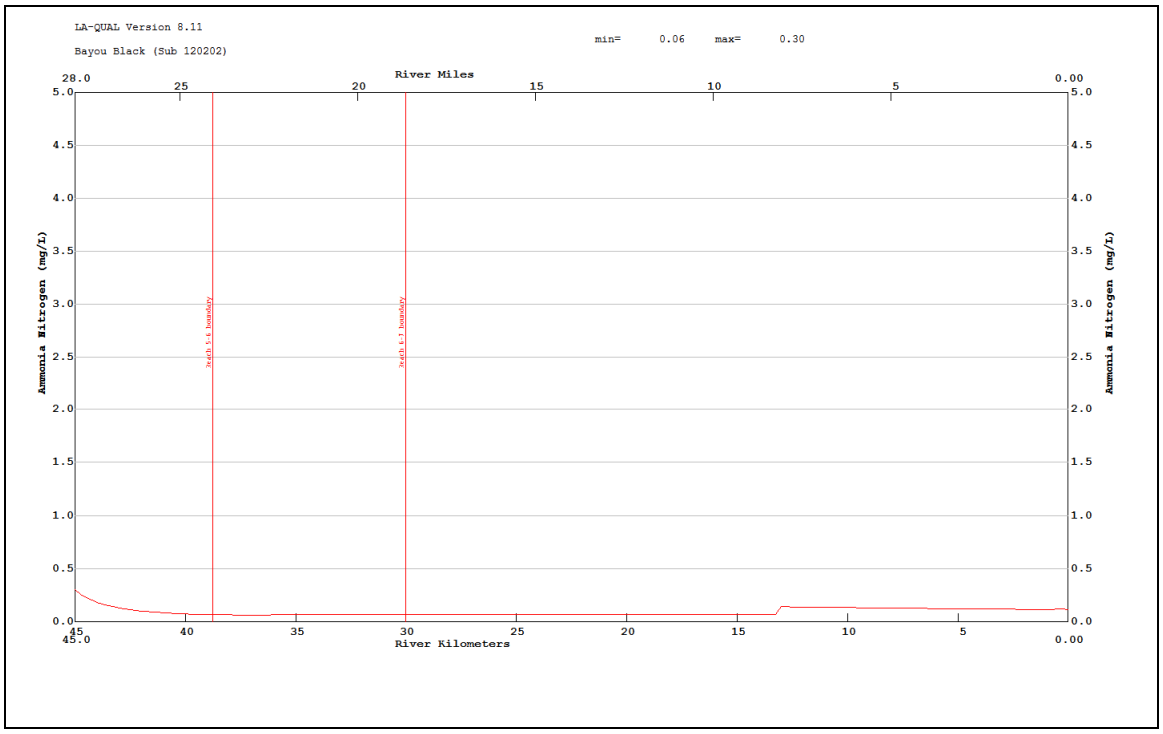

Figure I-1. Predicted ammonia results for subsegment 120202.

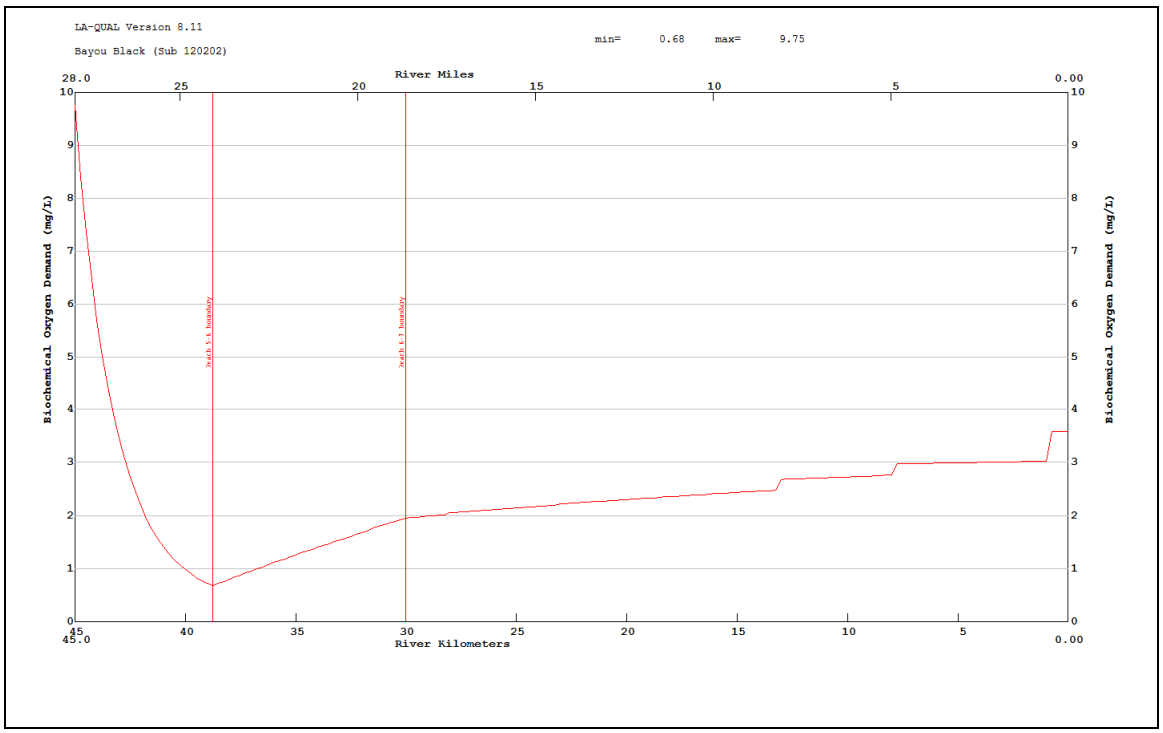

Figure I-2. Predicted BOD_u results for subsegment 120202.

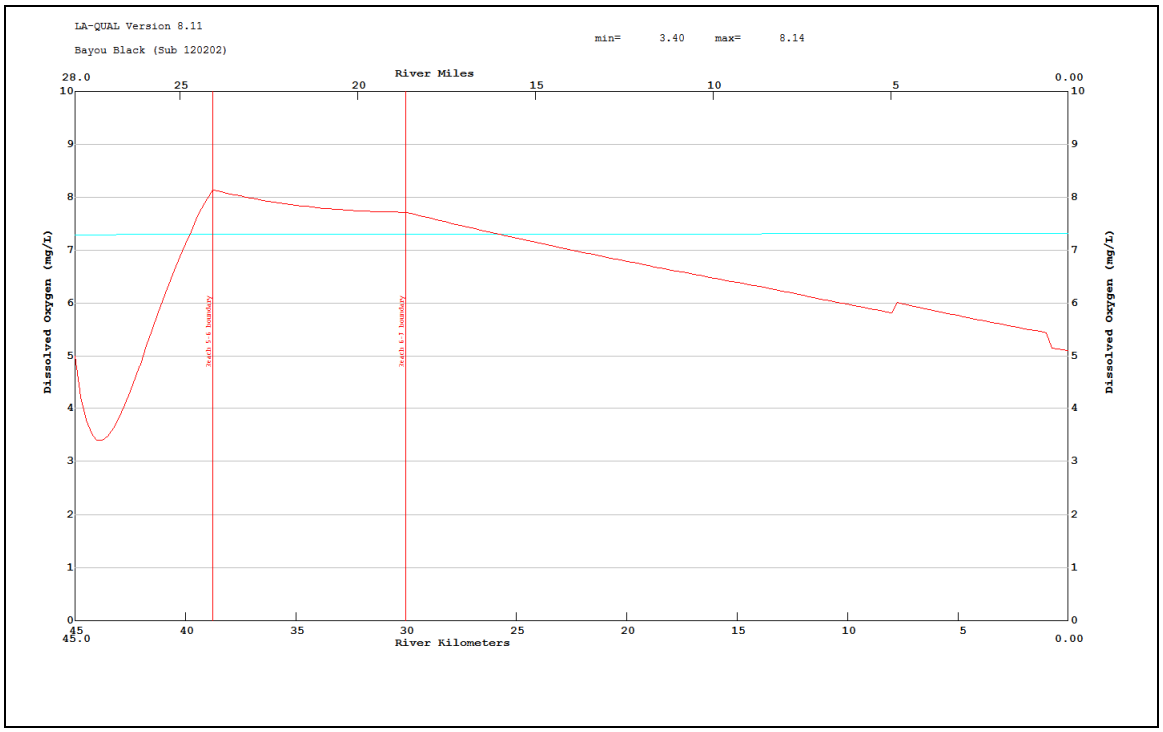

Figure I-3. Predicted DO results for subsegment 120202.

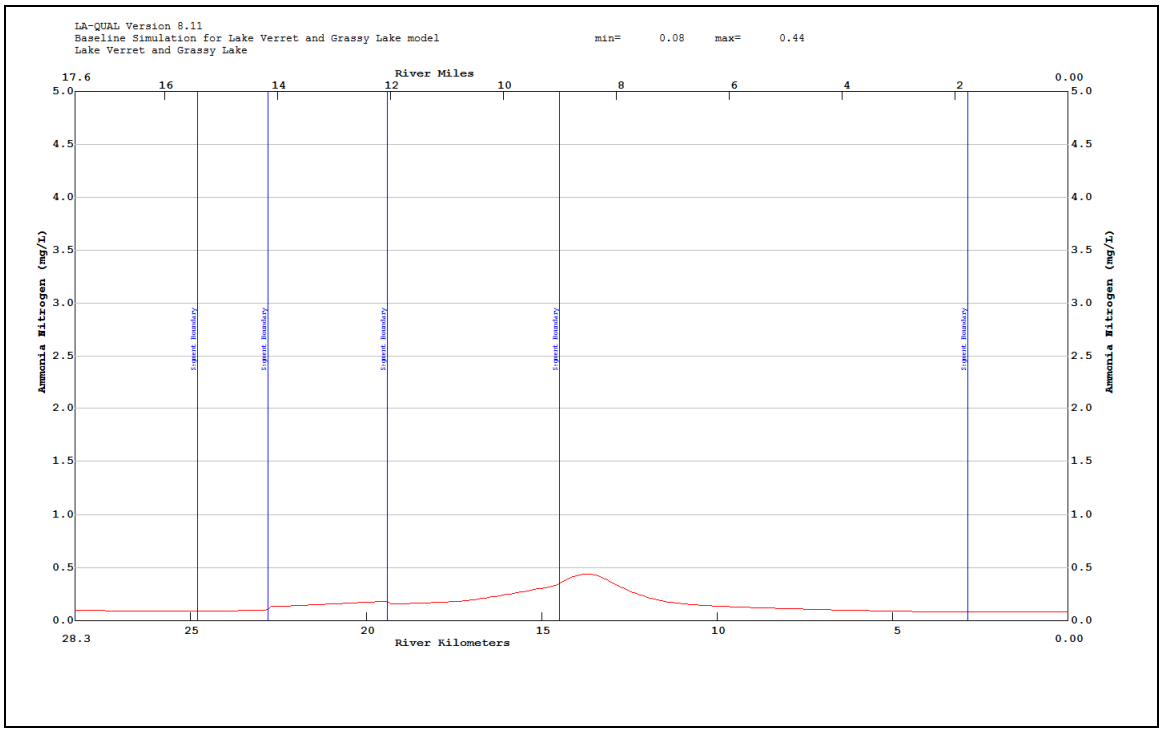

Figure I-4. Predicted ammonia results for subsegment 120204.

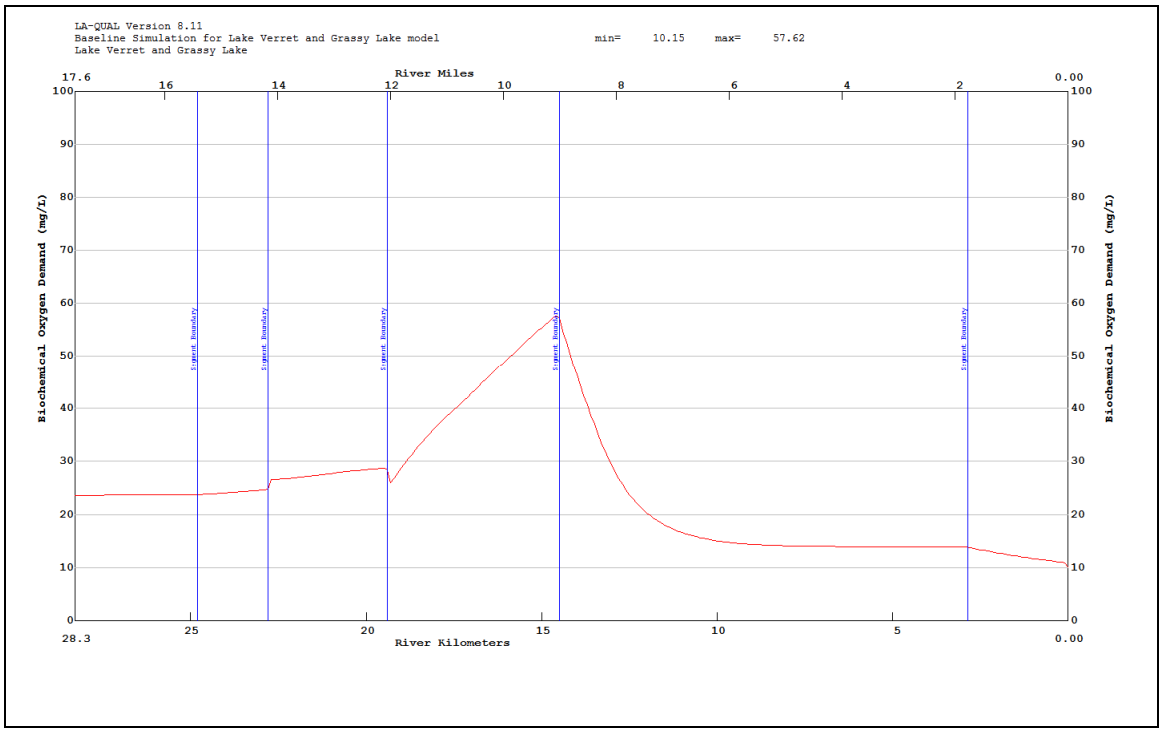

Figure I-5. Predicted BOD_u results for subsegment 120204.

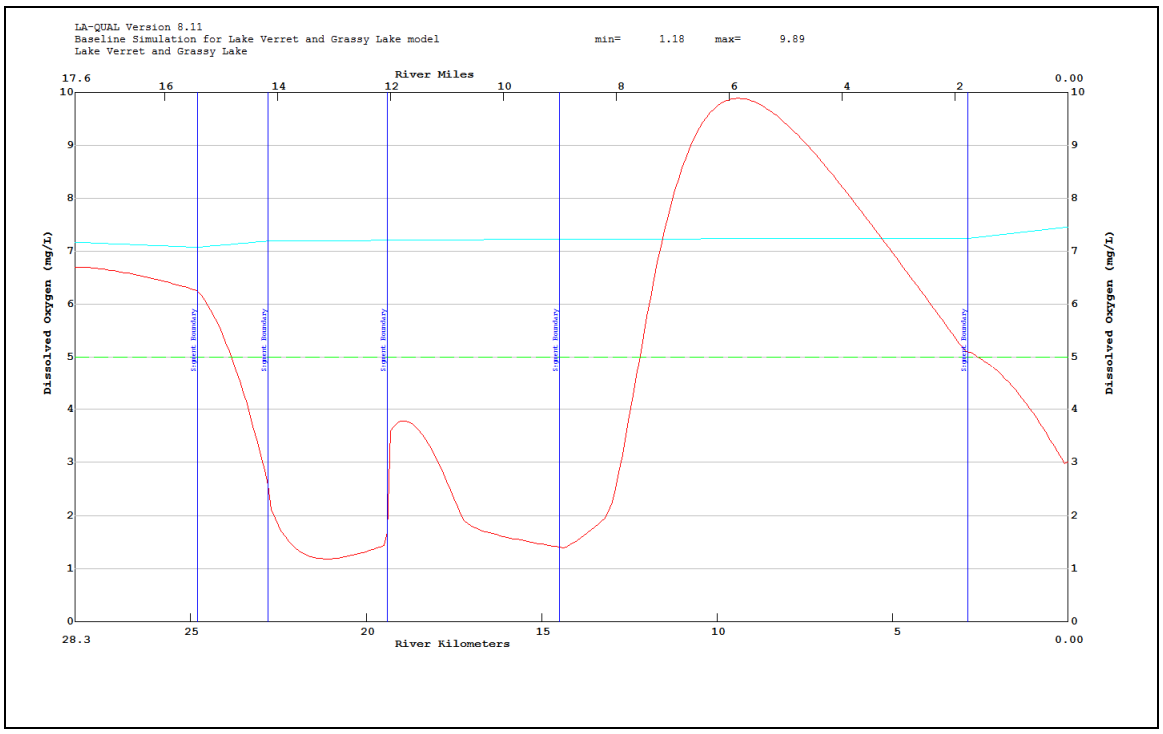

Figure I-6. Predicted DO results for subsegment 120204.

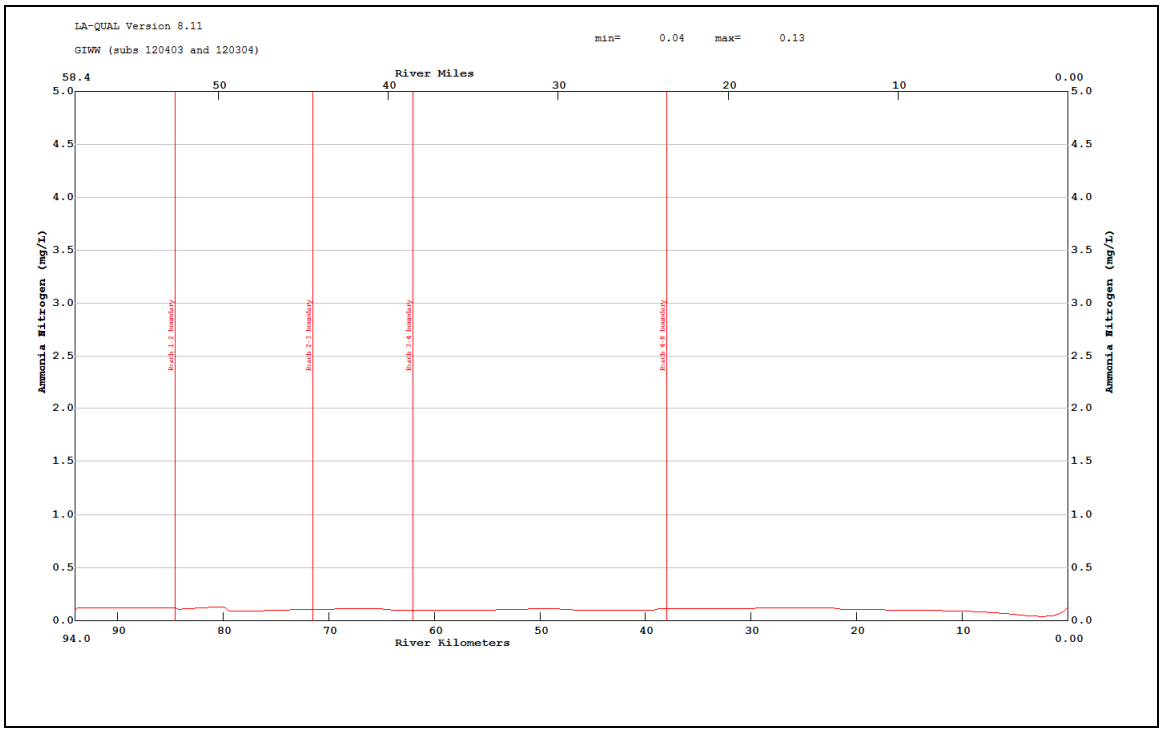

Figure I-7. Predicted ammonia results for subsegments 120304 and 120403.

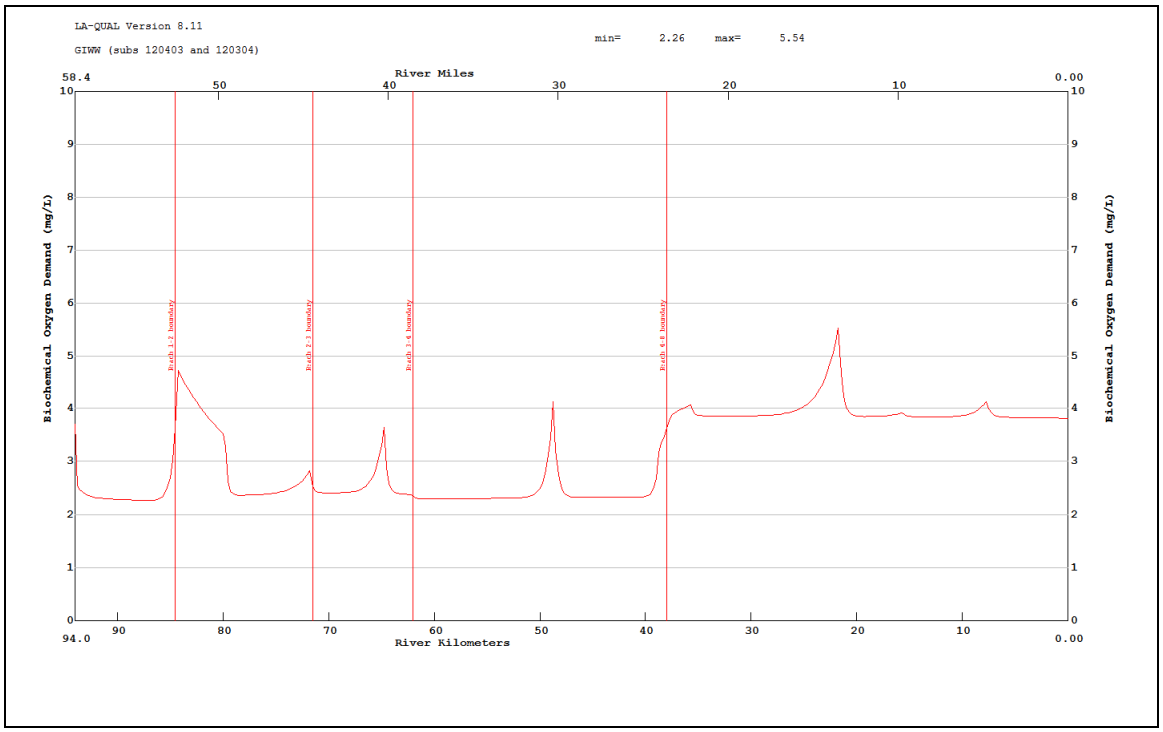

Figure I-8. Predicted BOD_u results for subsegments 120304 and 120403.

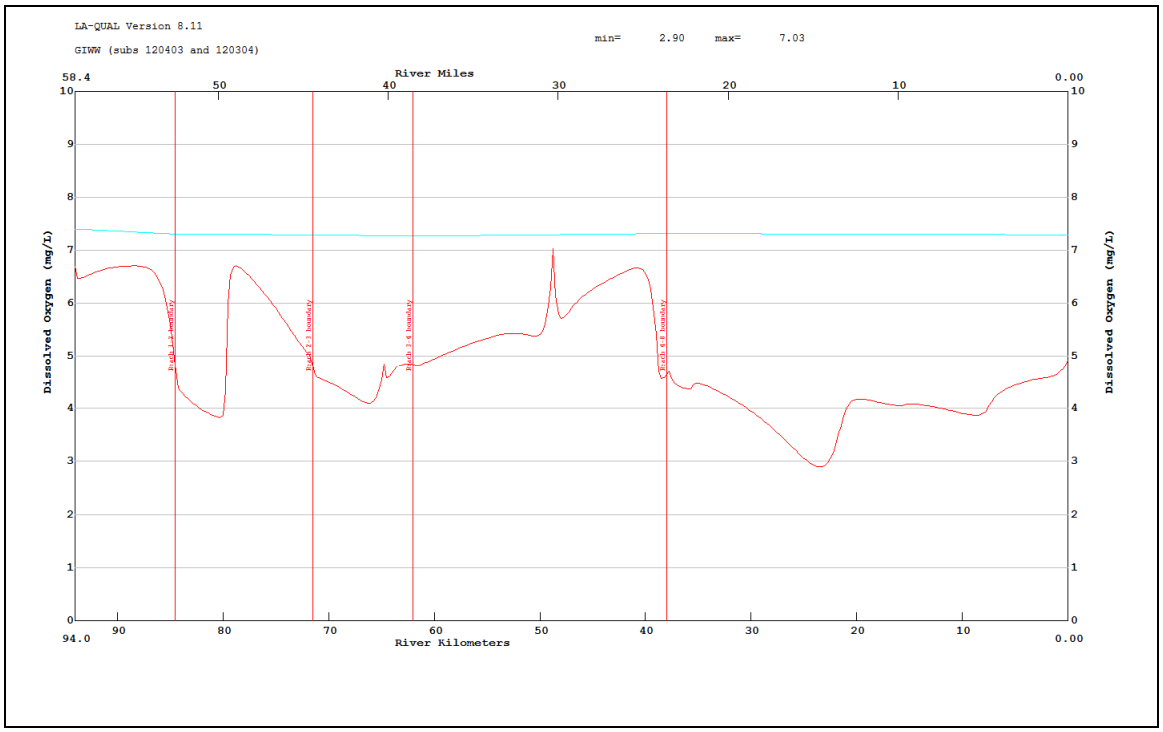

Figure I-9. Predicted DO results for subsegments 120304 and 120403.

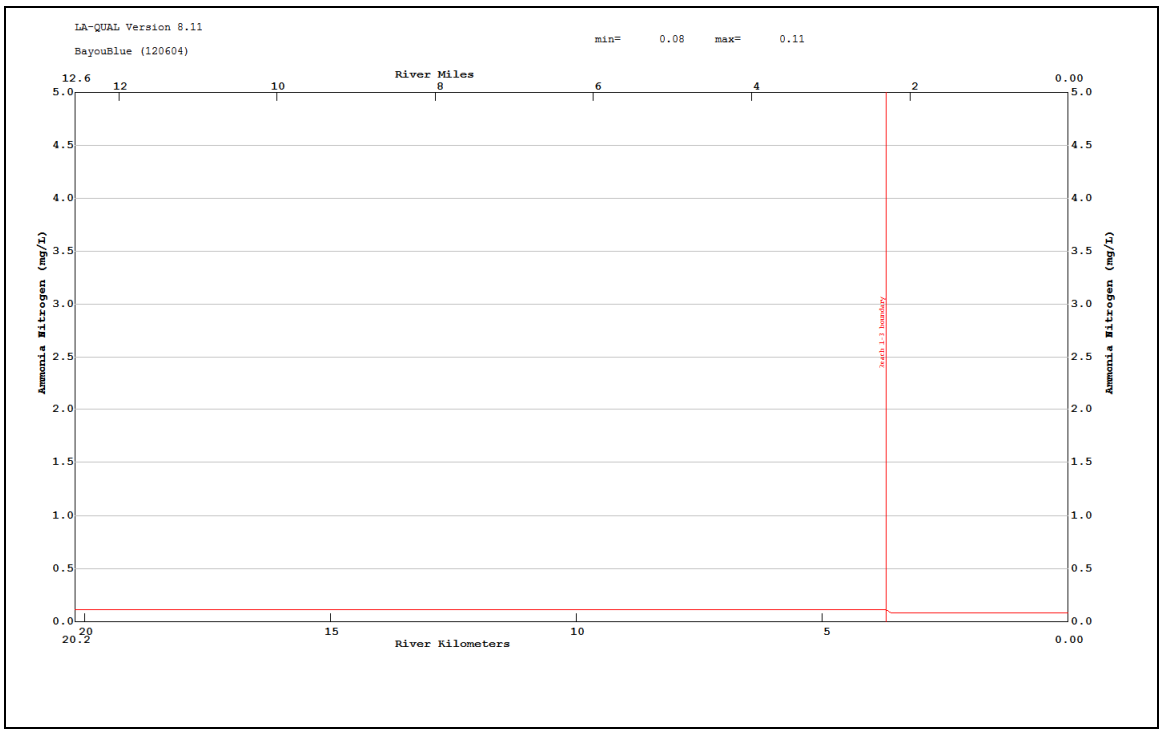

Figure I-10. Predicted ammonia results for subsegment 120604.

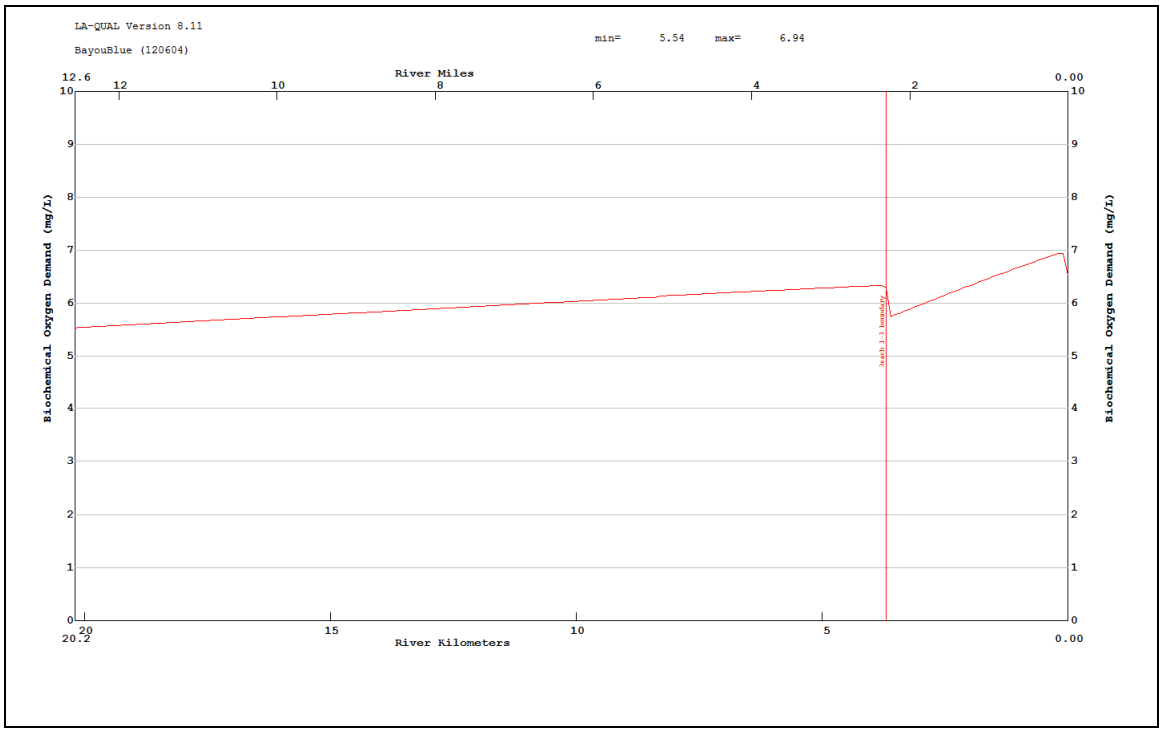

Figure I-11. Predicted BOD_u results for subsegment 120604.

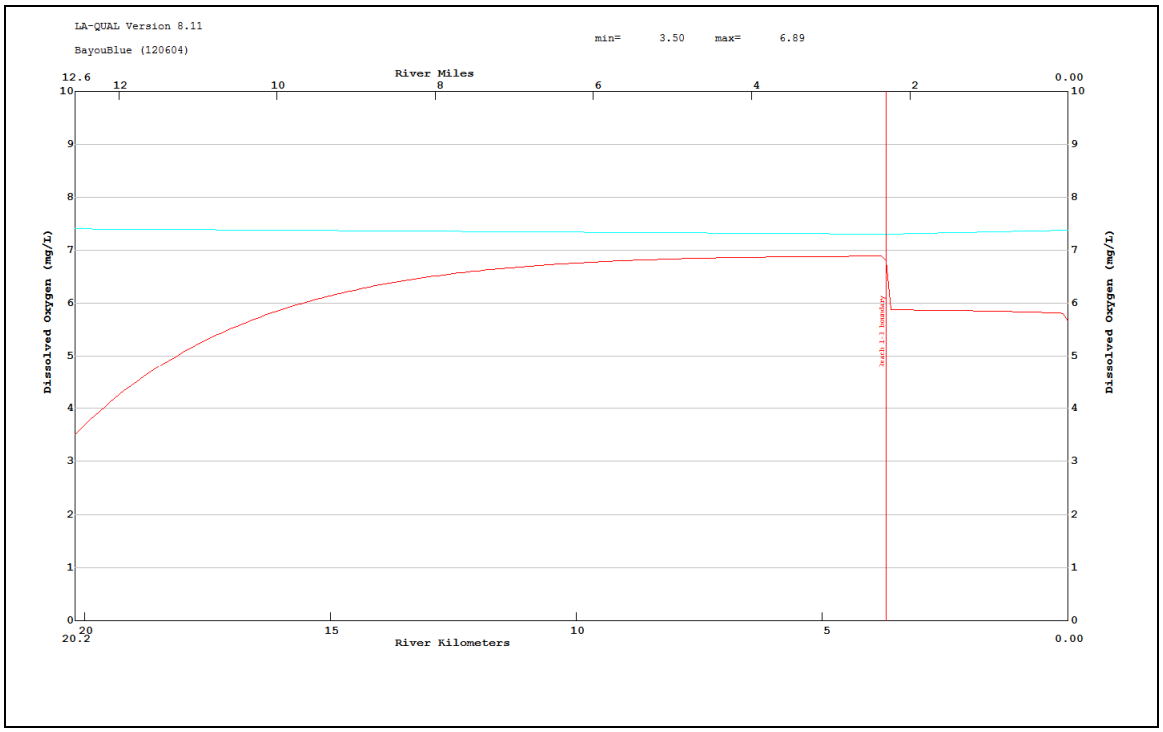

Figure I-12. Predicted DO results for subsegment 120604.

APPENDIX J:
PLOTS OF PROJECTED WATER QUALITY FOR TMDL

Figure J-1. TMDL temperature results for subsegment 120202. 1
Figure J-2. TMDL ammonia results for subsegment 120202. 1
Figure J-3. TMDL BOD_u results for subsegment 120202. 2
Figure J-4. TMDL DO results for subsegment 120202. 2
Figure J-5. TMDL temperature results for subsegment 120204. 3
Figure J-6. TMDL ammonia results for subsegment 120204. 3
Figure J-7. TMDL BOD_u results for subsegment 120204. 4
Figure J-8. TMDL DO results for subsegment 120204. 4
Figure J-9. TMDL temperature results for subsegments 120304 and 120403. 5
Figure J-10. TMDL ammonia results for subsegments 120304 and 120403. 5
Figure J-11. TMDL BOD_u results for subsegments 120304 and 120403. 6
Figure J-12. TMDL DO results for subsegments 120304 and 120403. 6
Figure J-13. TMDL temperature results for subsegment 120604. 7
Figure J-14. TMDL ammonia results for subsegment 120604. 7
Figure J-15. TMDL BOD_u results for subsegment 120604. 8
Figure J-16. TMDL DO results for subsegment 120604. 8

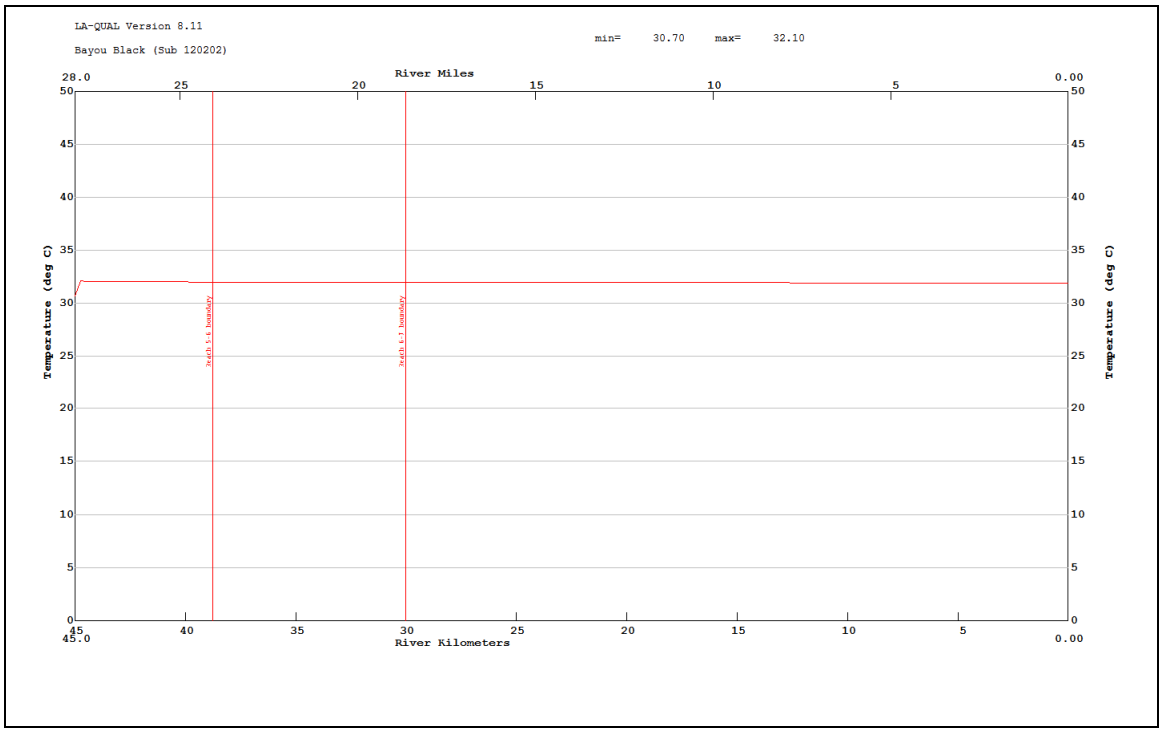

Figure J-1. TMDL temperature results for subsegment 120202.

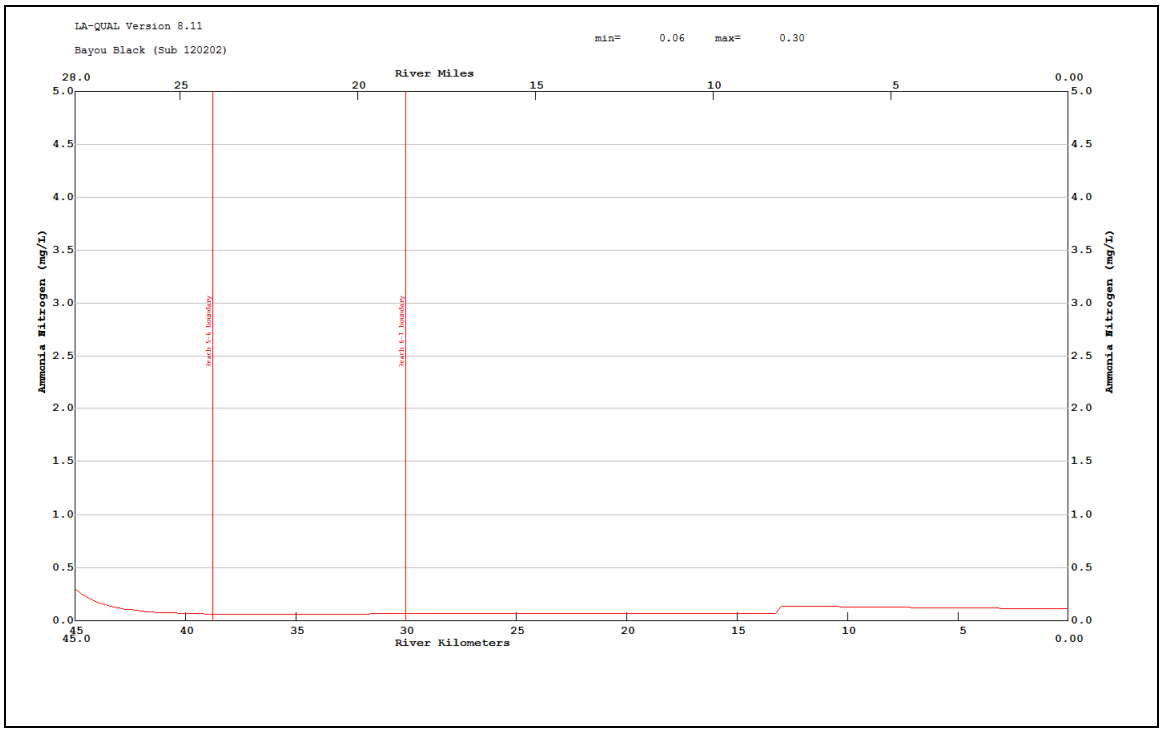

Figure J-2. TMDL ammonia results for subsegment 120202.

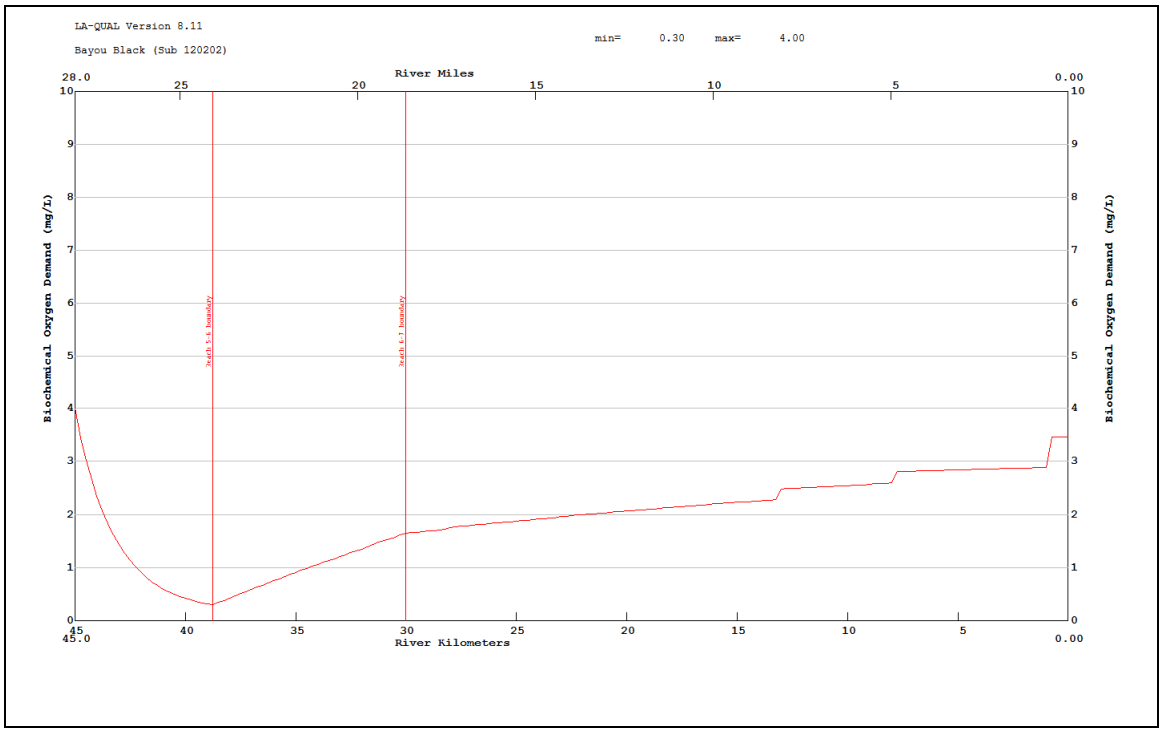

Figure J-3. TMDL BOD_u results for subsegment 120202.

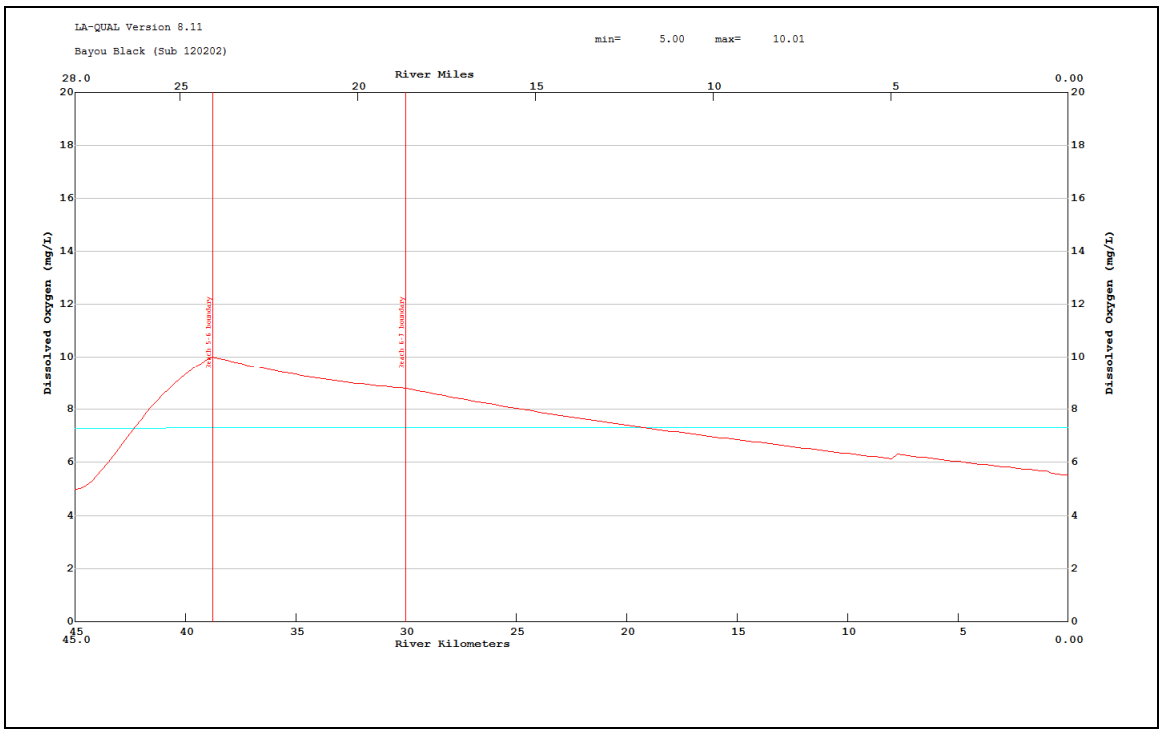

Figure J-4. TMDL DO results for subsegment 120202.

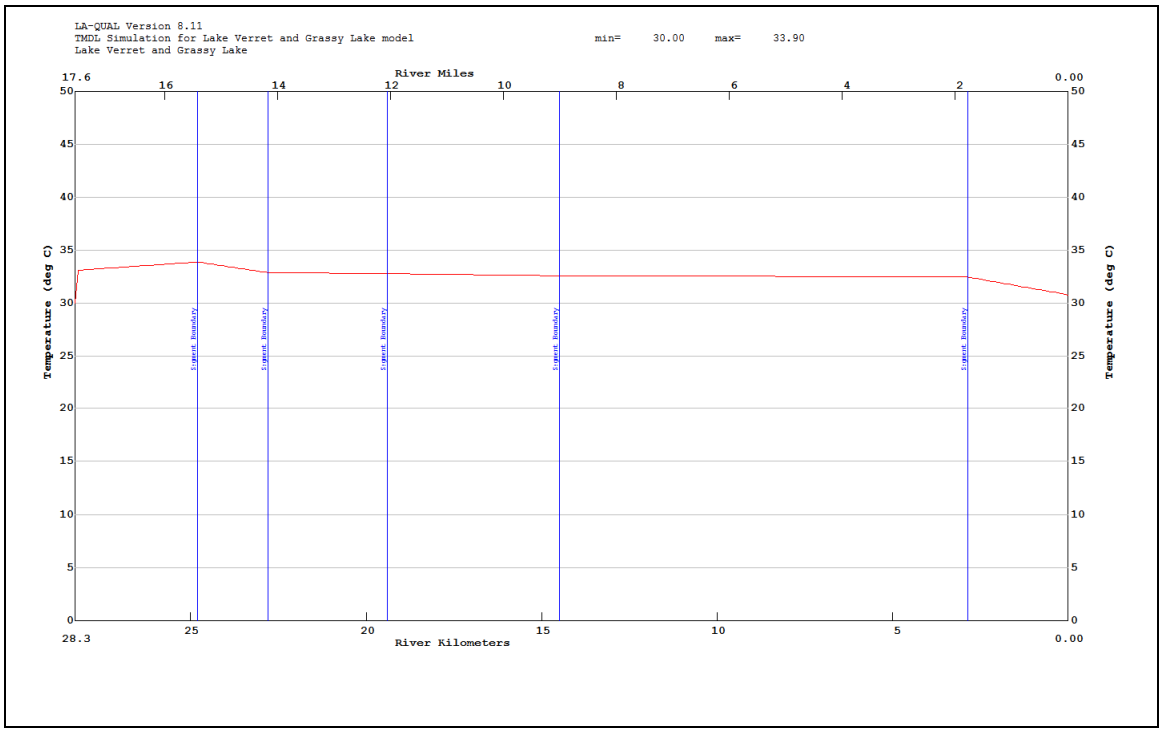

Figure J-5. TMDL temperature results for subsegment 120204.

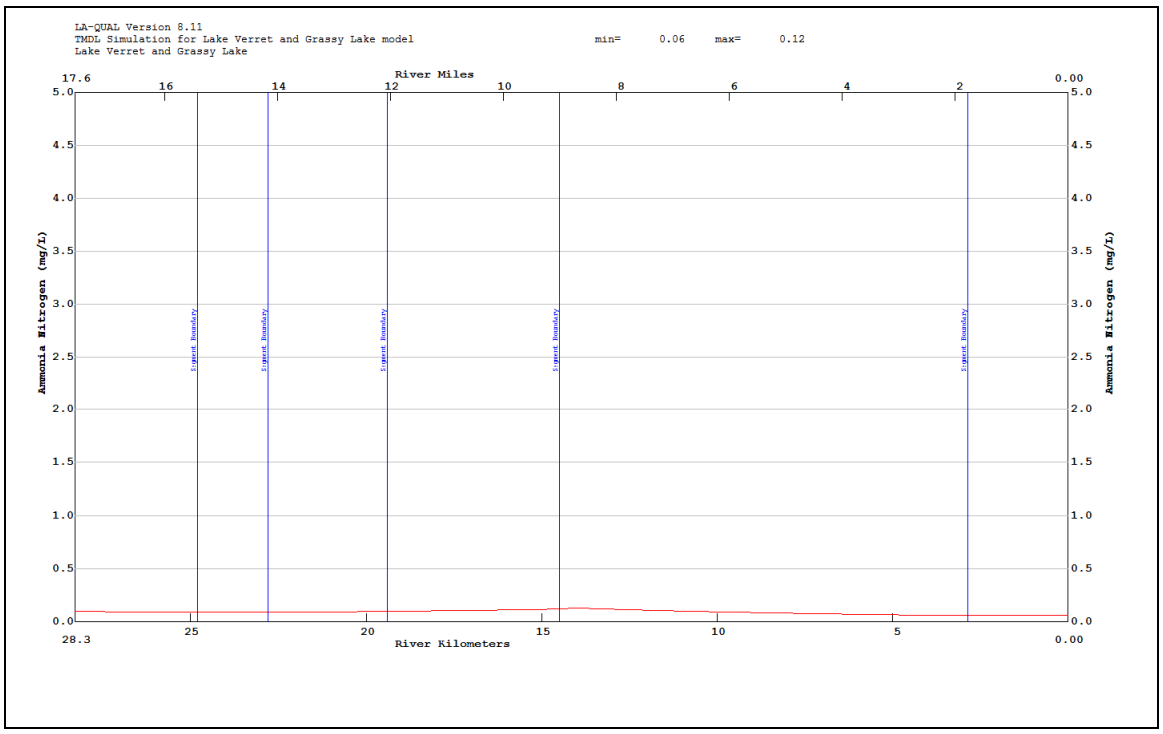

Figure J-6. TMDL ammonia results for subsegment 120204.

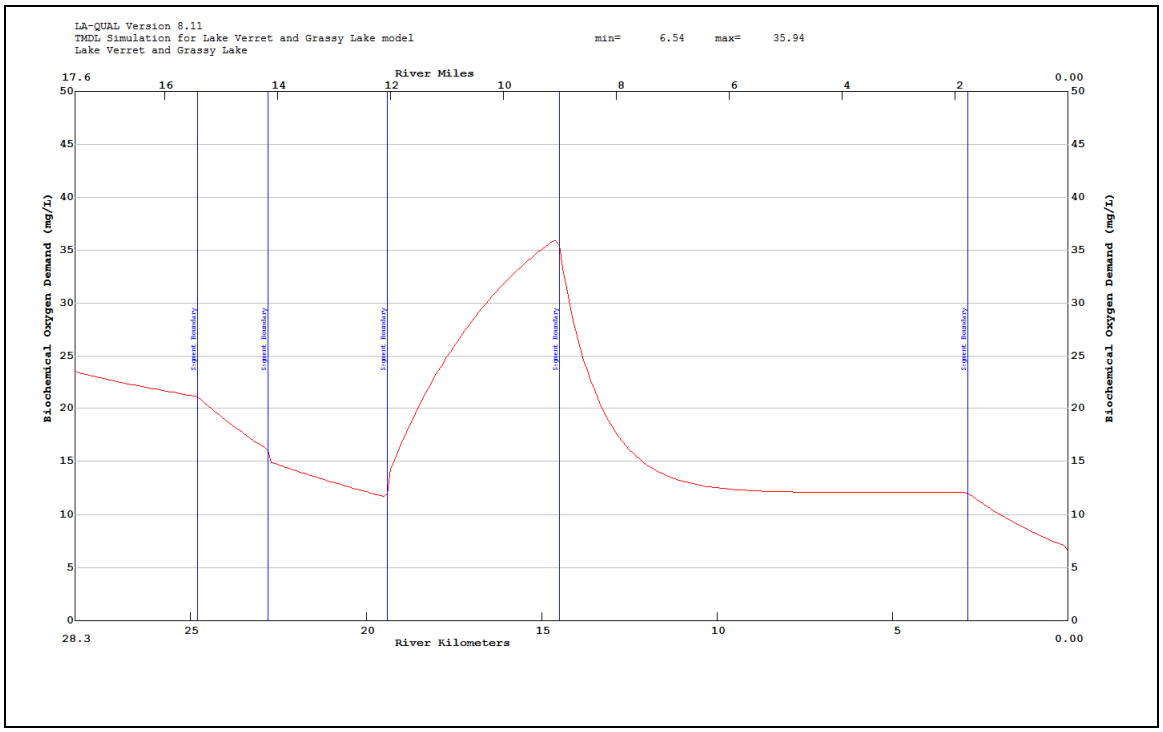

Figure J-7. TMDL BOD_u results for subsegment 120204.

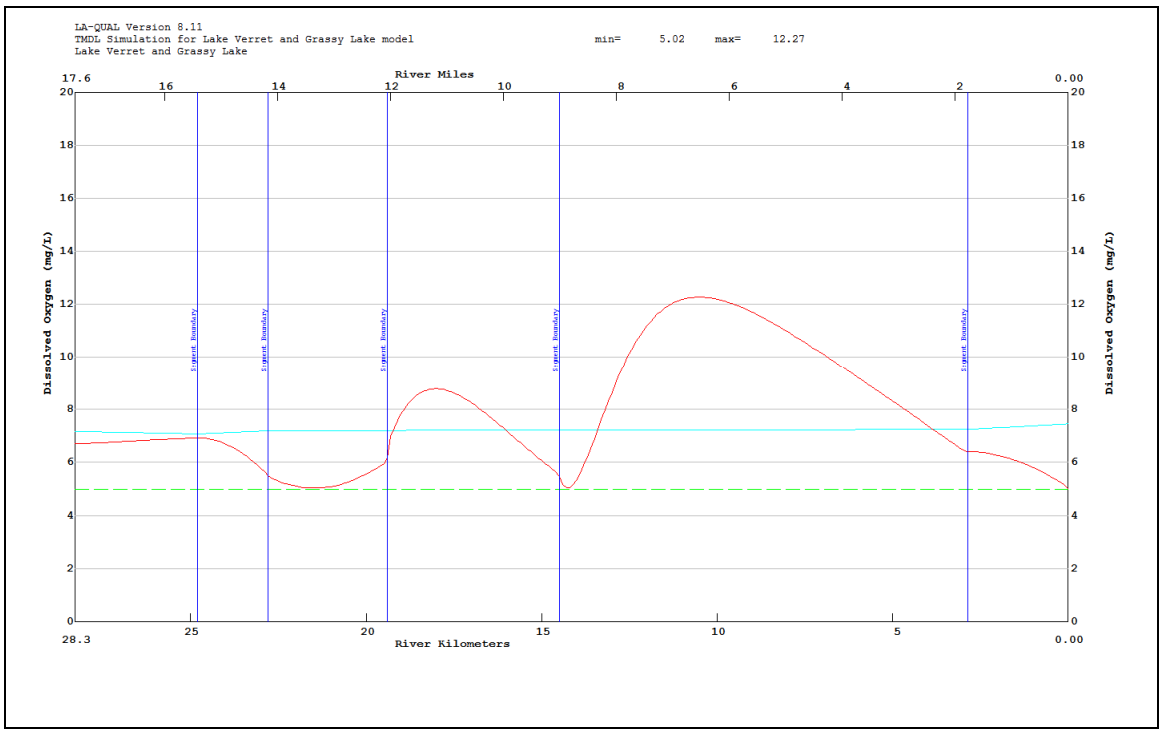

Figure J-8. TMDL DO results for subsegment 120204.

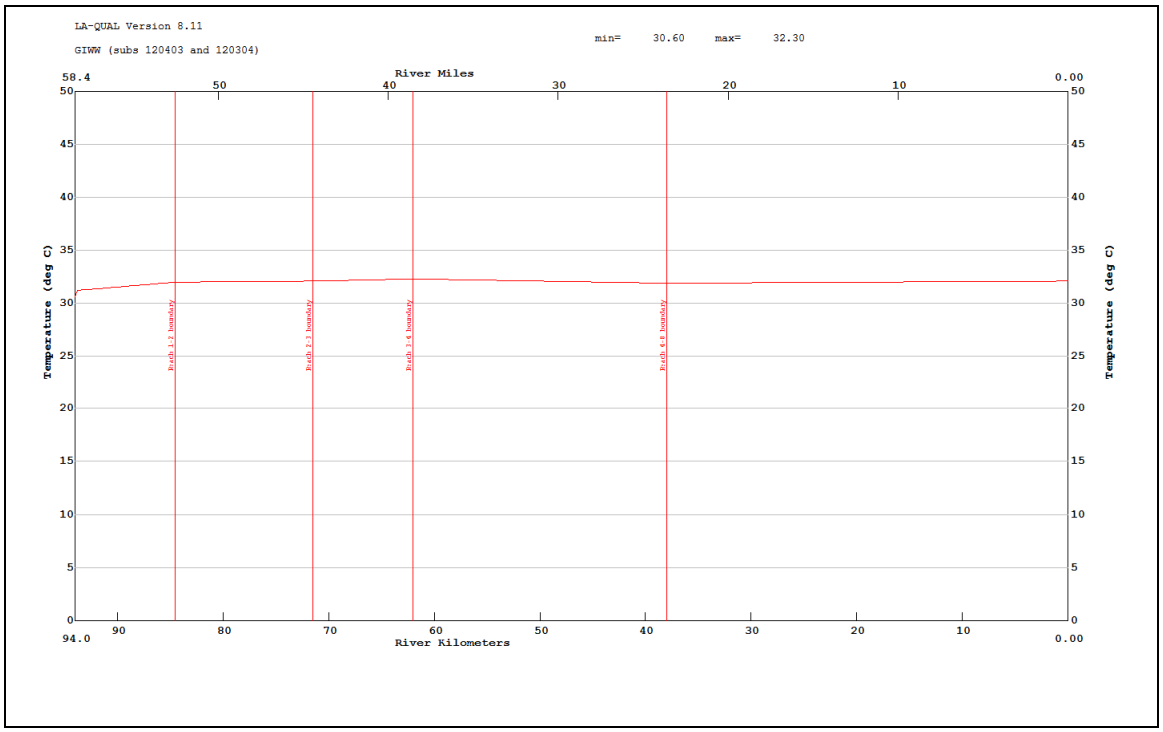

Figure J-9. TMDL temperature results for subsegments 120304 and 120403.

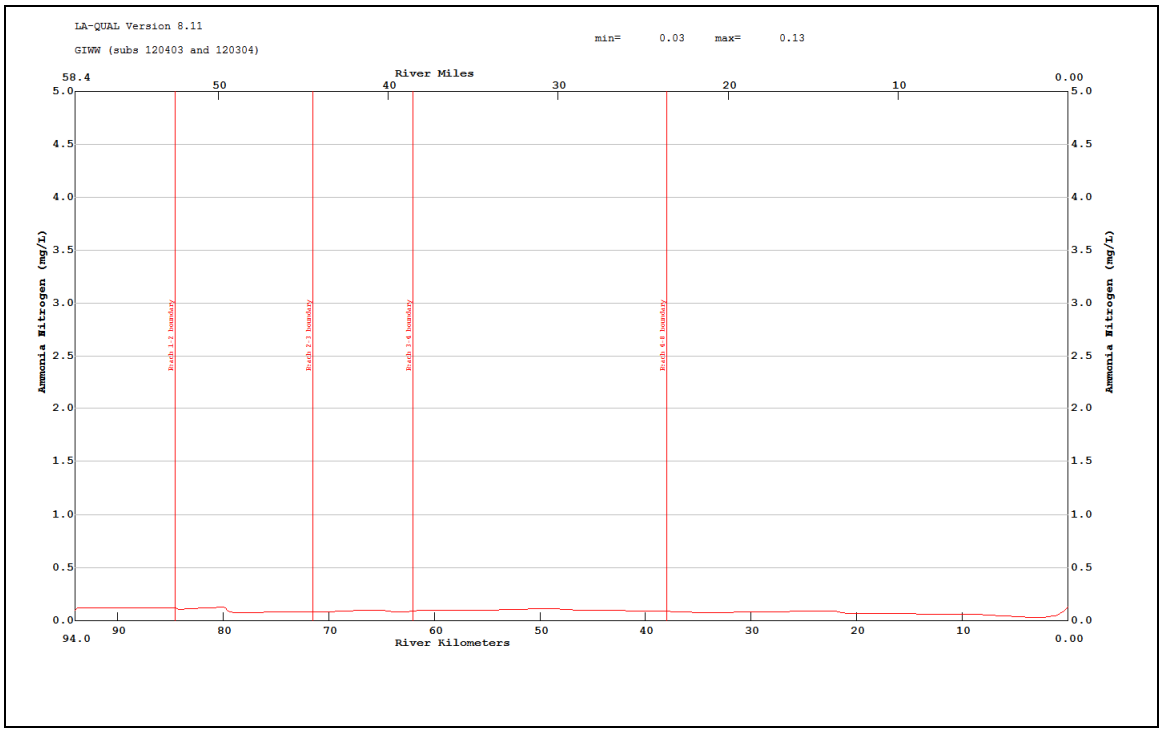

Figure J-10. TMDL ammonia results for subsegments 120304 and 120403.

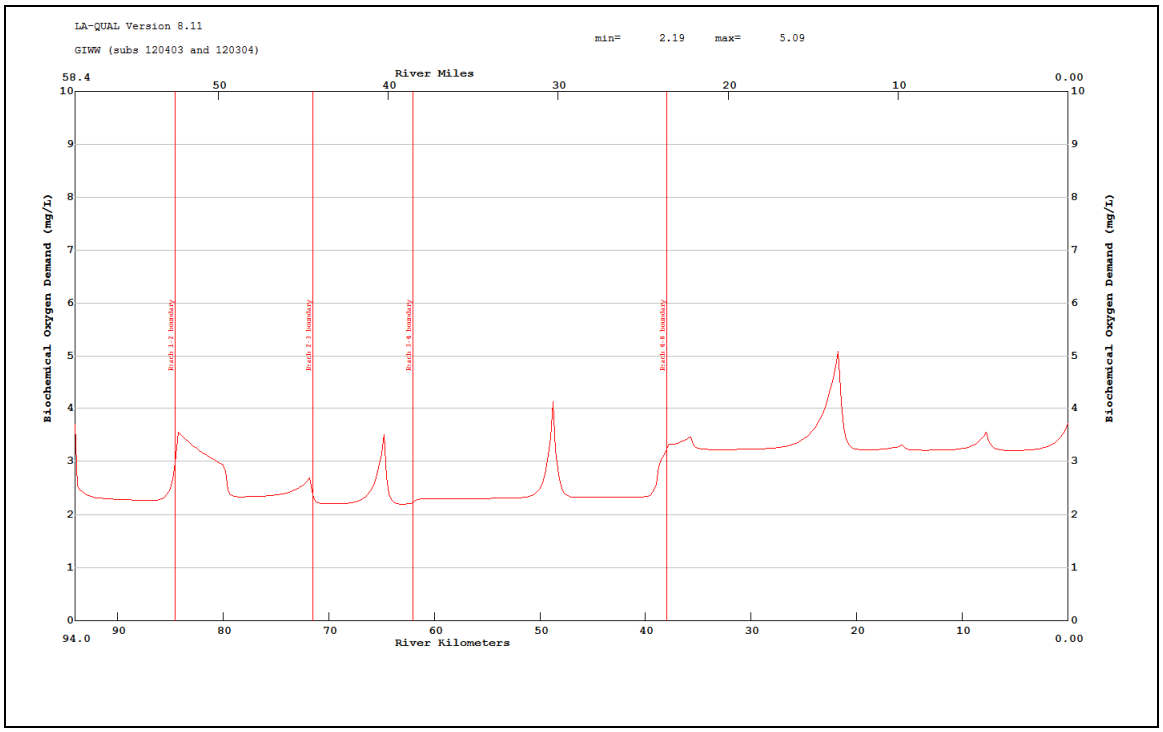

Figure J-11. TMDL BOD_u results for subsegments 120304 and 120403.

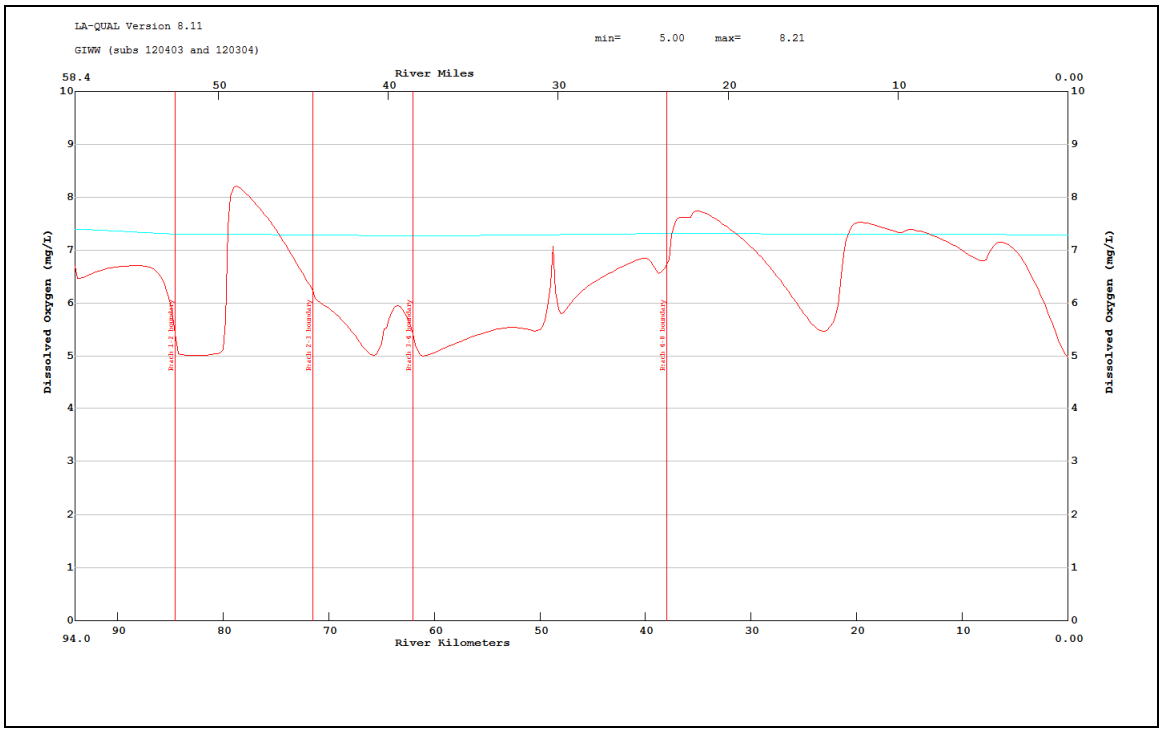

Figure J-12. TMDL DO results for subsegments 120304 and 120403.

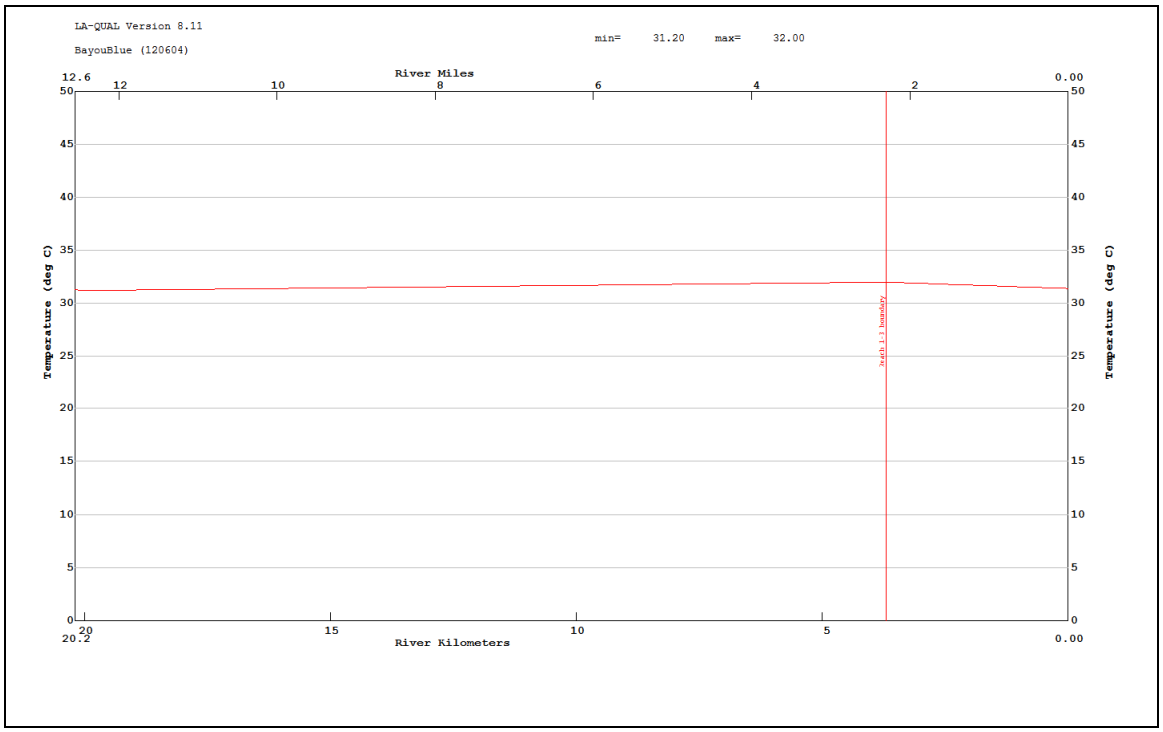

Figure J-13. TMDL temperature results for subsegment 120604.

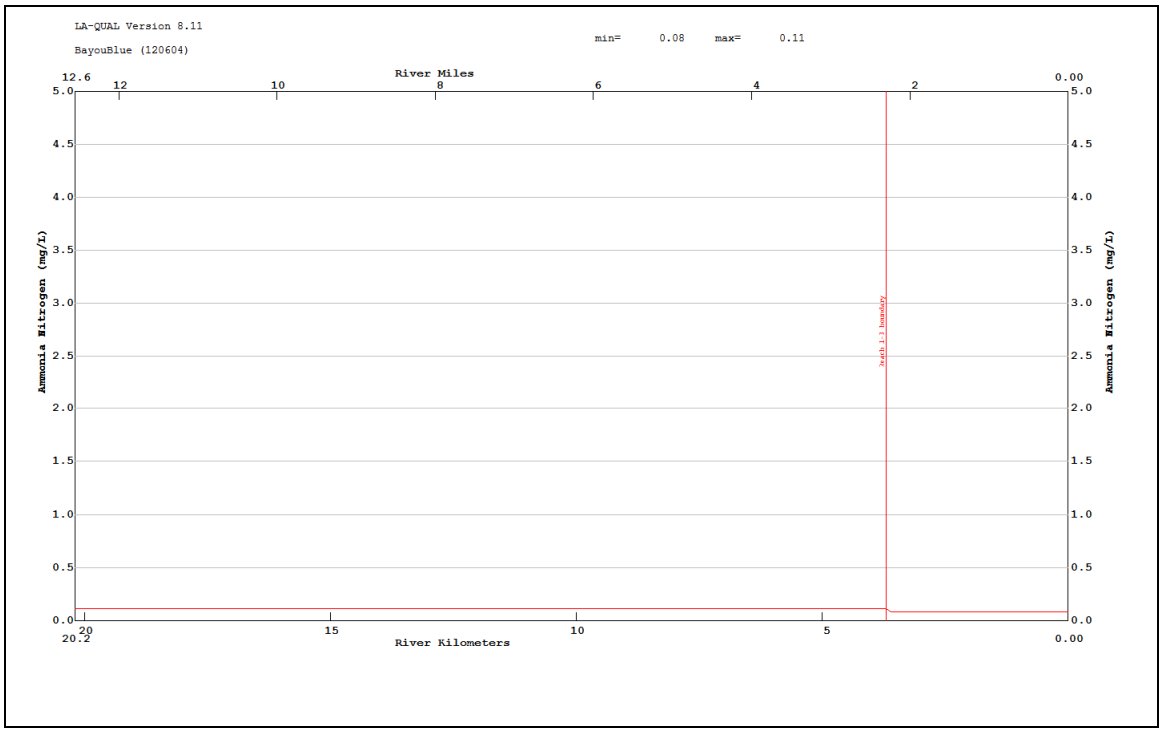

Figure J-14. TMDL ammonia results for subsegment 120604.

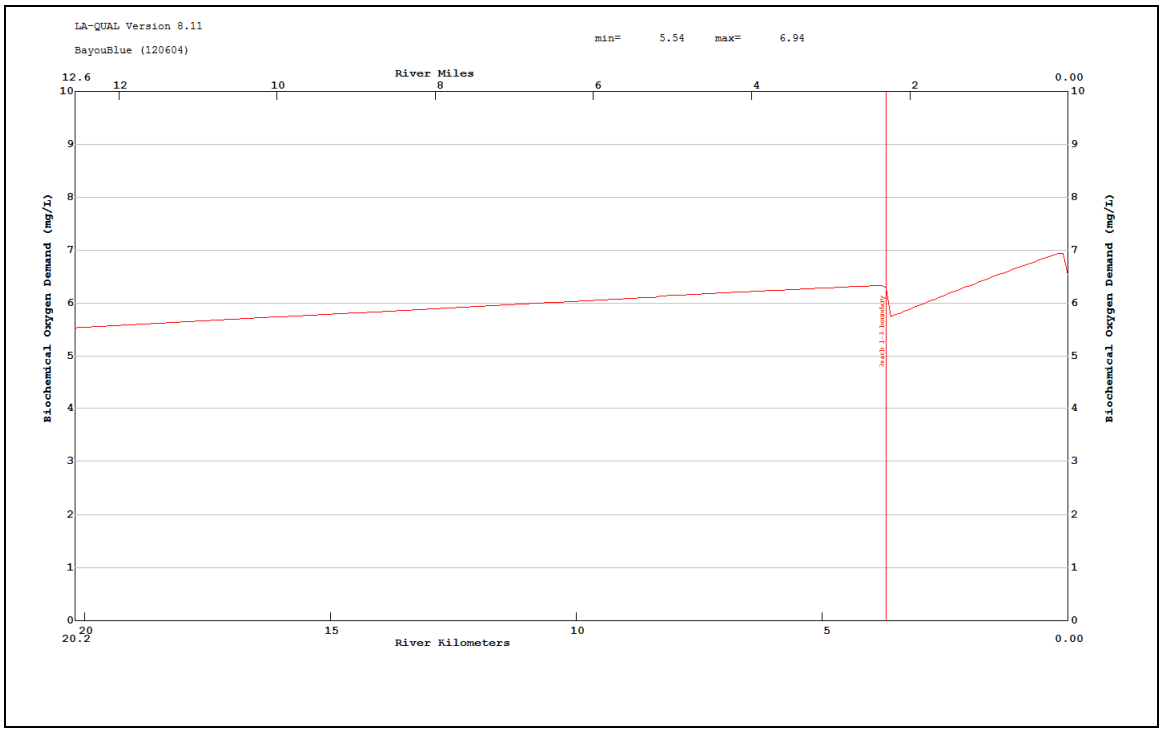

Figure J-15. TMDL BOD_u results for subsegment 120604.

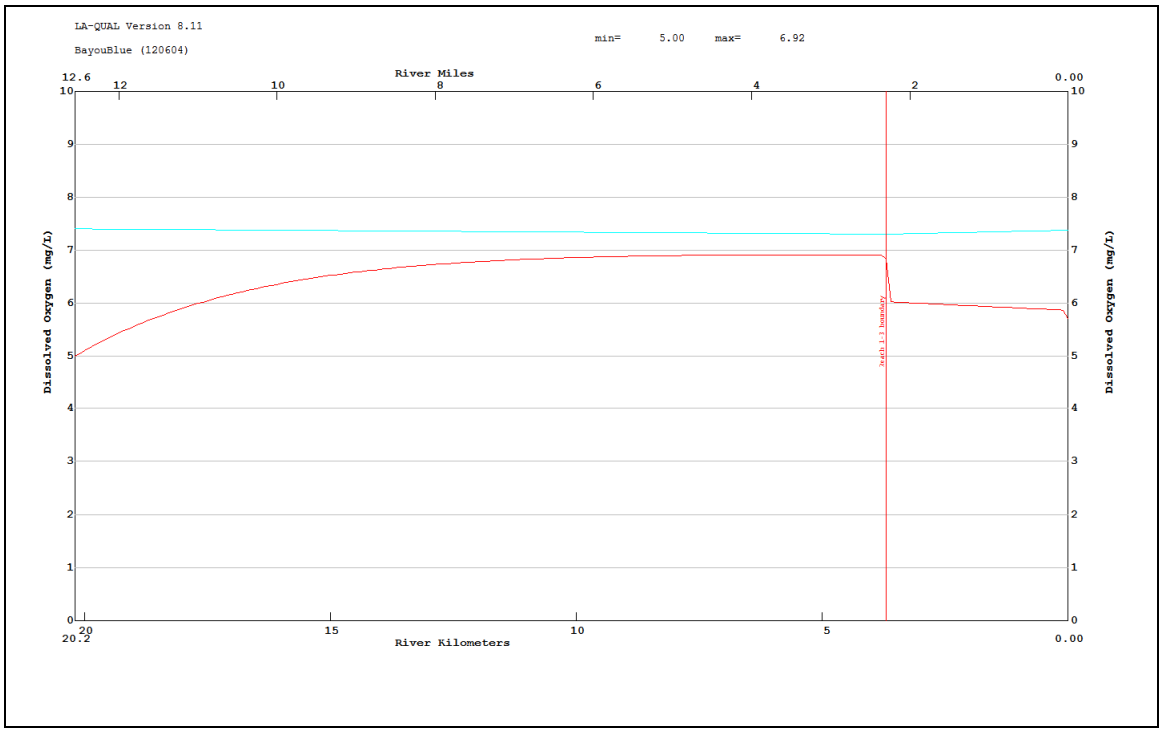

Figure J-16. TMDL DO results for subsegment 120604.

APPENDIX K:
SENSITIVITY ANALYSIS PLOTS

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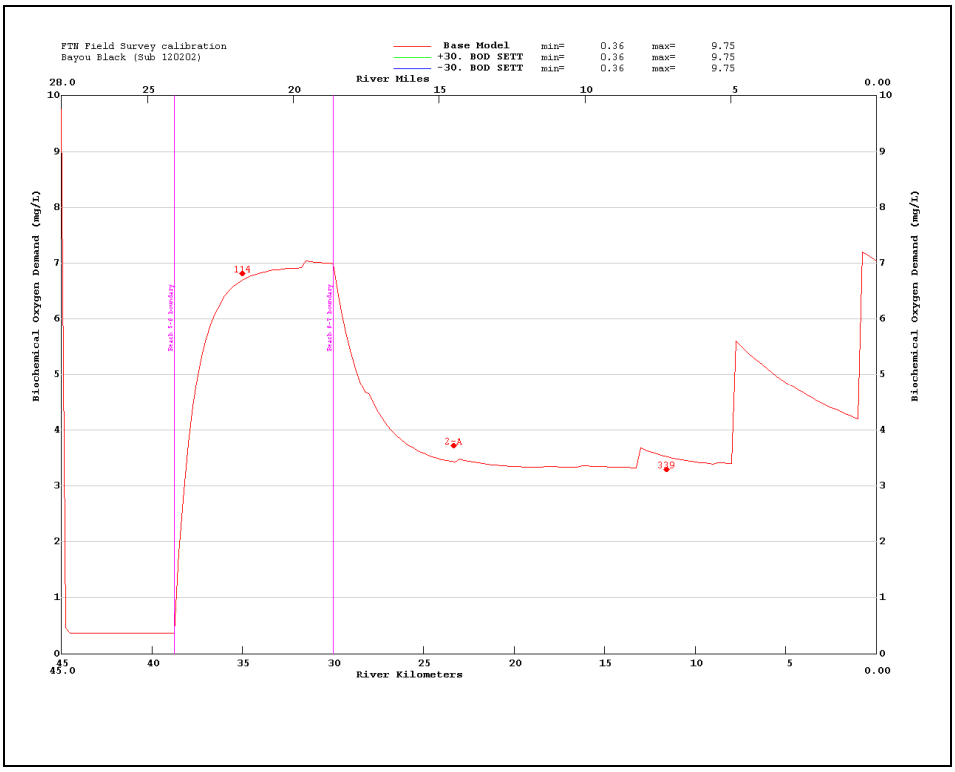

Figure K-1. BOD sensitivity results (BOD settling rate) for subsegment 120202.

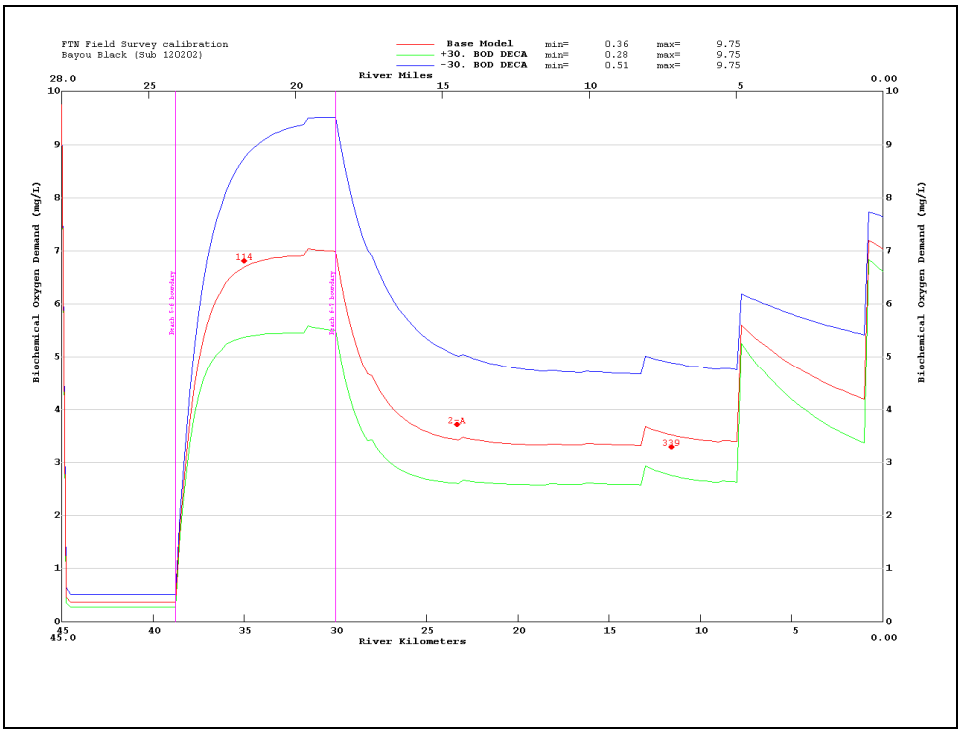

Figure K-2. BOD sensitivity results (BOD aerobic decay rate) for subsegment 120202.

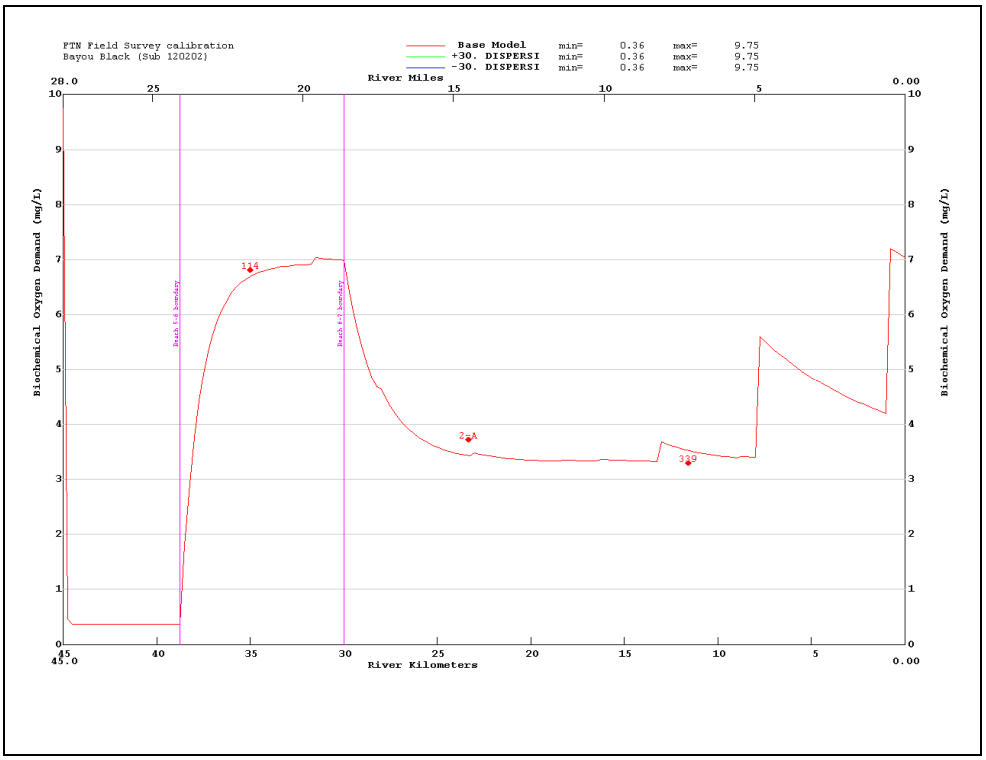

Figure K-3. BOD sensitivity results (dispersion) for subsegment 120202.

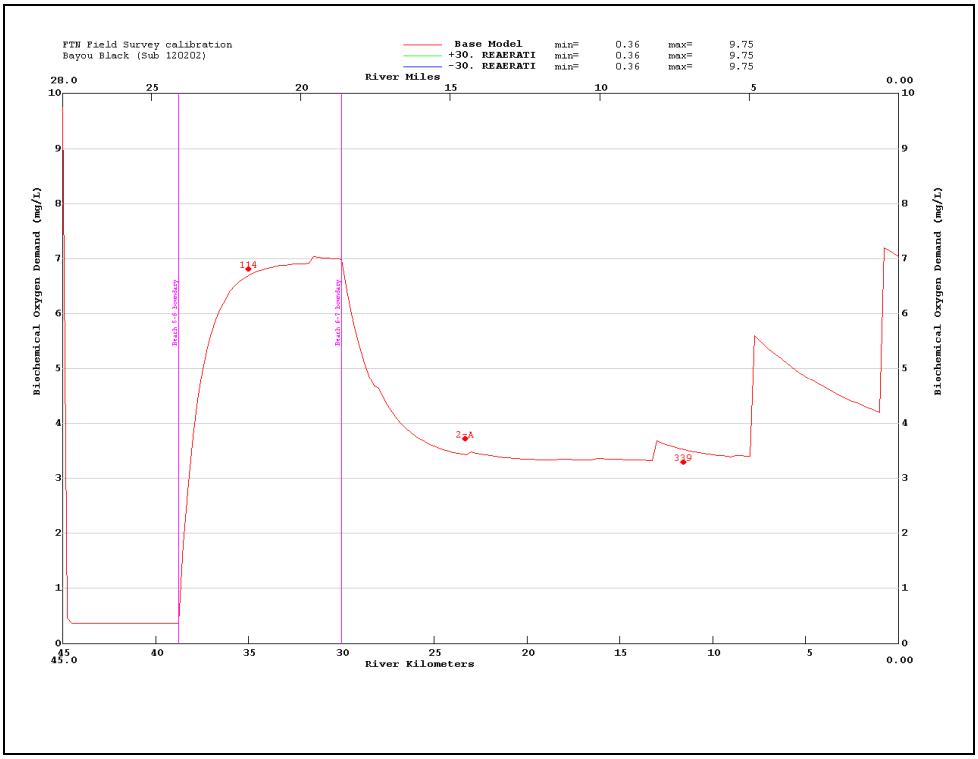

Figure K-4. BOD sensitivity results (reaeration) for subsegment 120202.

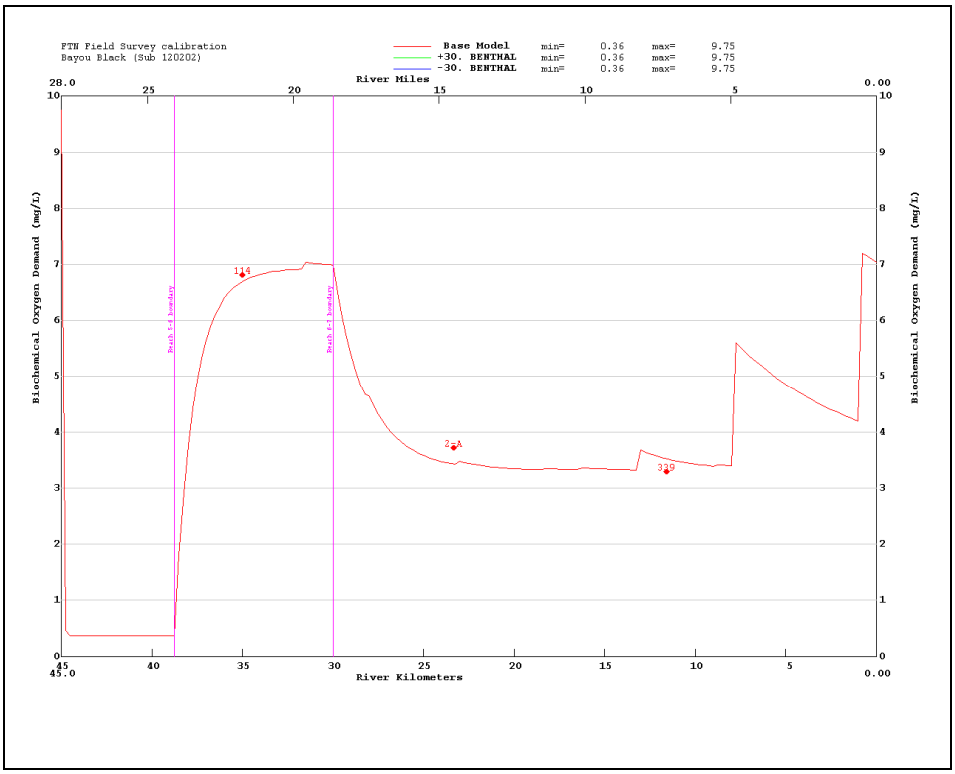

Figure K-5. BOD sensitivity results (background SOD) for subsegment 120202.

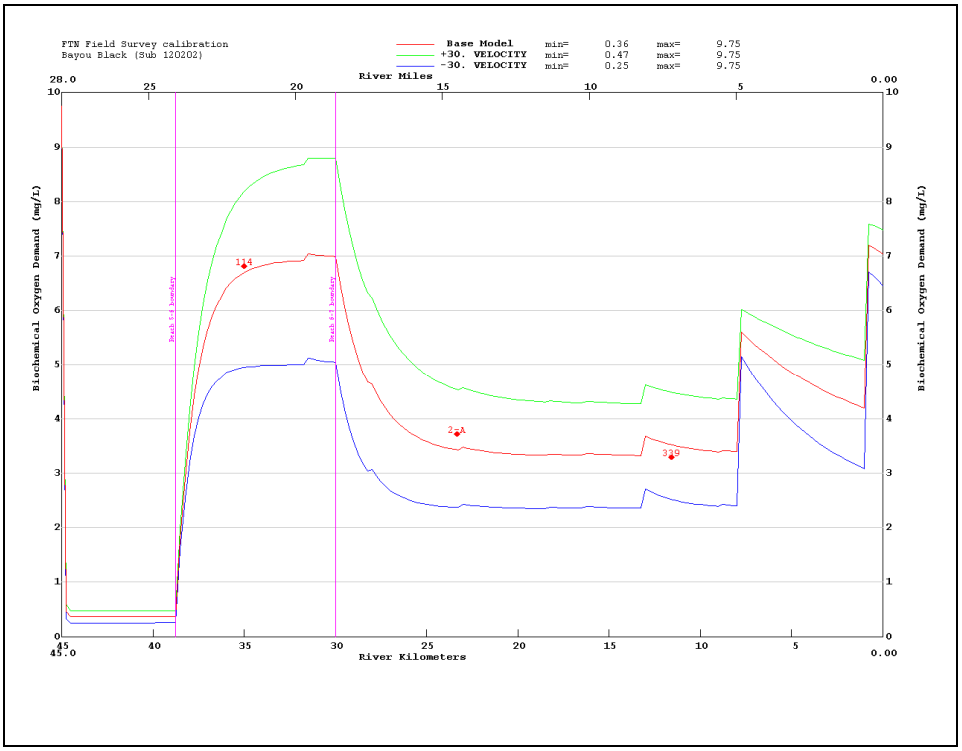

Figure K-6. BOD sensitivity results (stream velocity) for subsegment 120202.

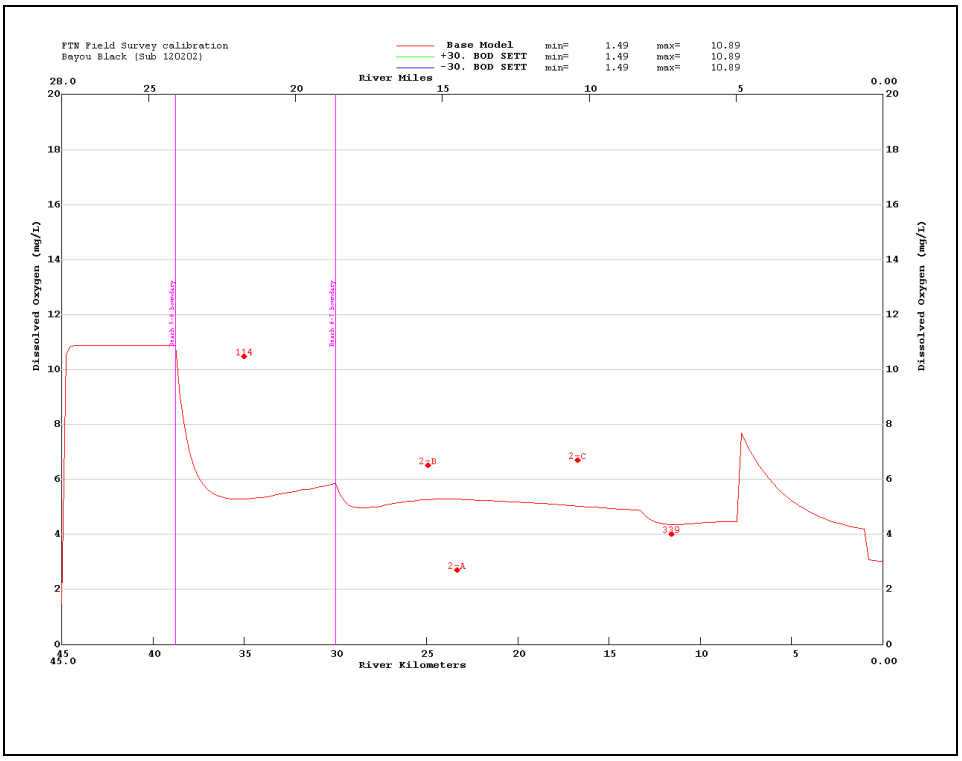

Figure K-7. DO sensitivity results (BOD settling rate) for subsegment 120202.

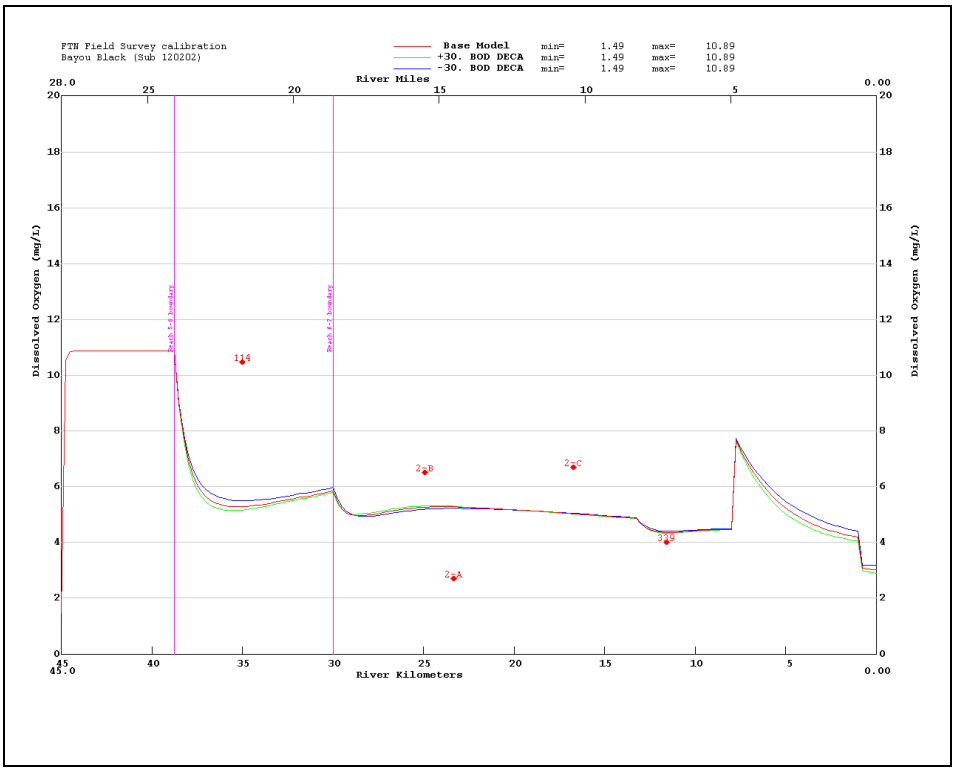

Figure K-8. DO sensitivity results (BOD aerobic decay rate) for subsegment 120202.

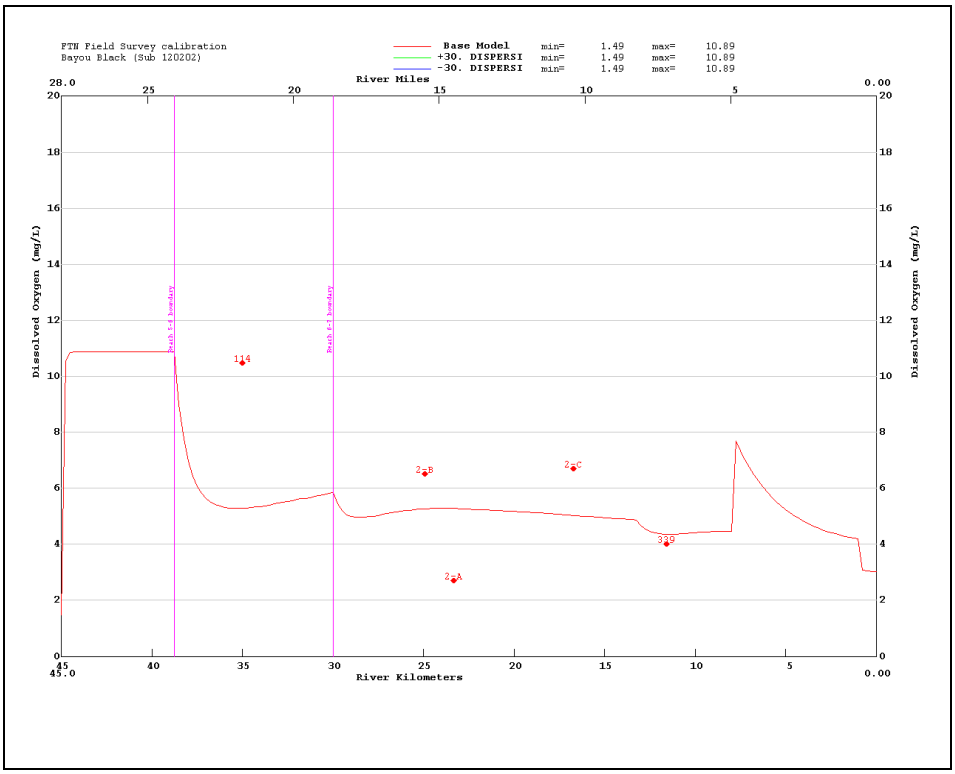

Figure K-9. DO sensitivity results (dispersion) for subsegment 120202.

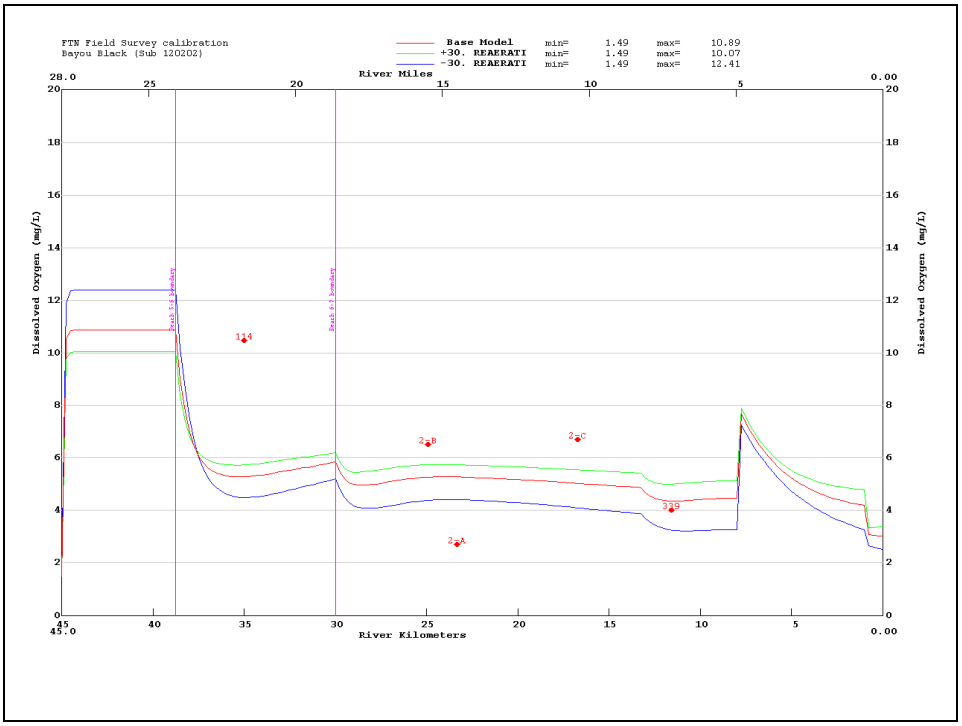

Figure K-10. DO sensitivity results (reaeration) for subsegment 120202.

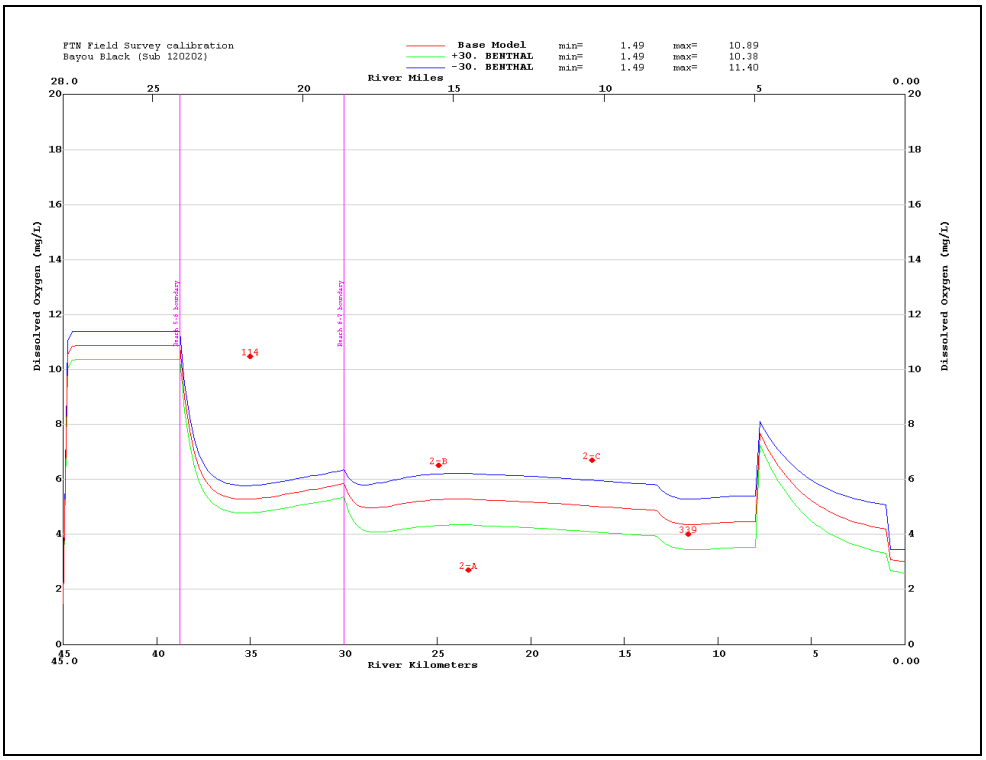

Figure K-11. DO sensitivity results (background SOD) for subsegment 120202.

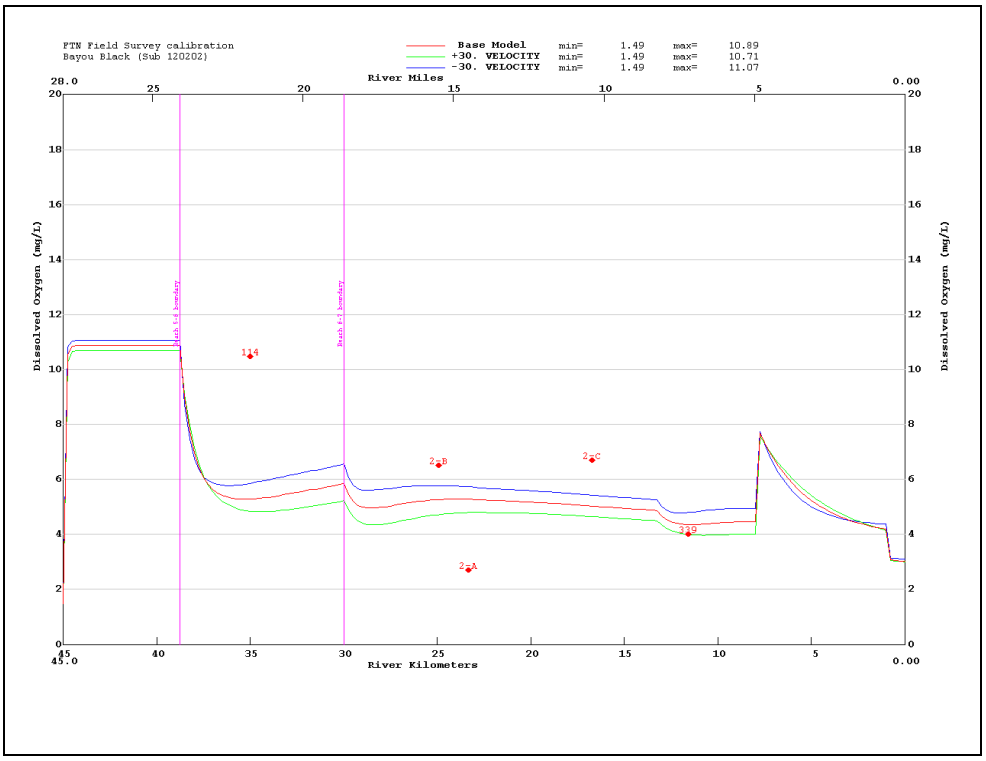

Figure K-12. DO sensitivity results (stream velocity) for subsegment 120202.

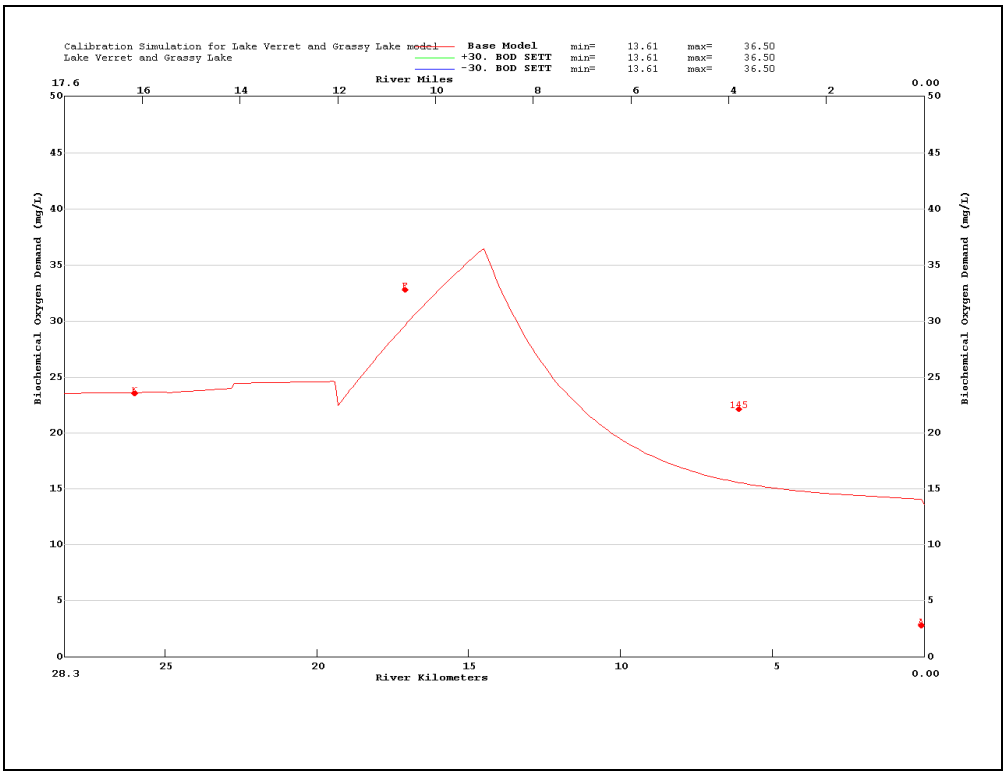

Figure K-13. BOD sensitivity results (BOD settling rate) for subsegment 120204.

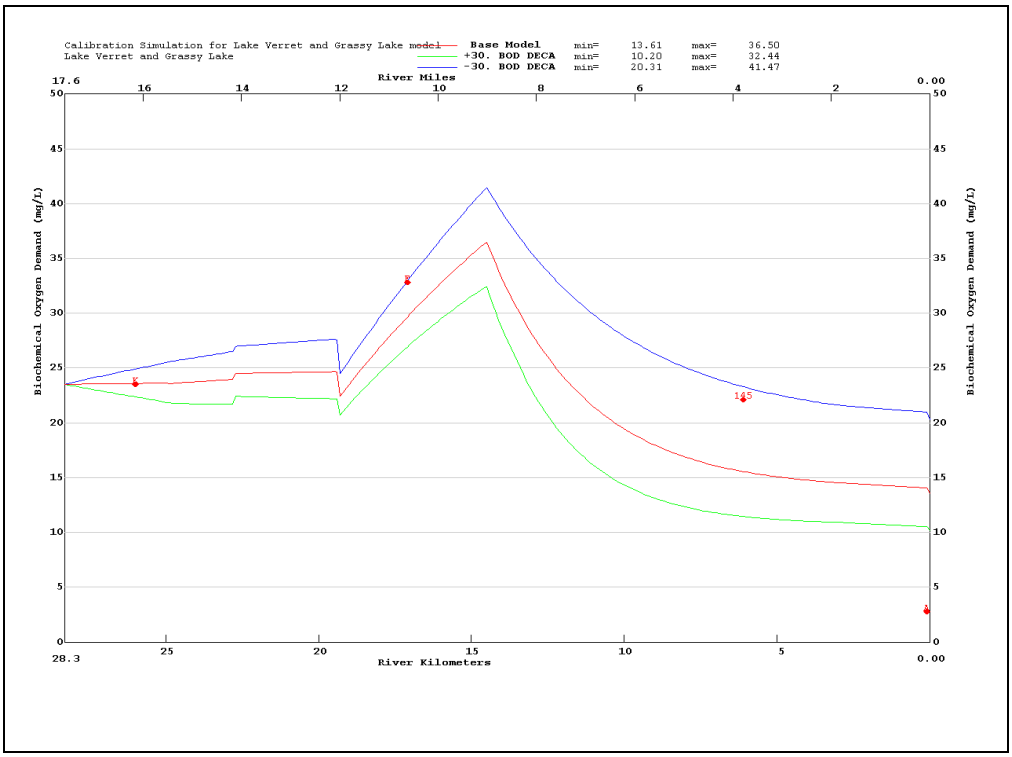

Figure K-14. BOD sensitivity results (BOD aerobic decay rate) for subsegment 120204.

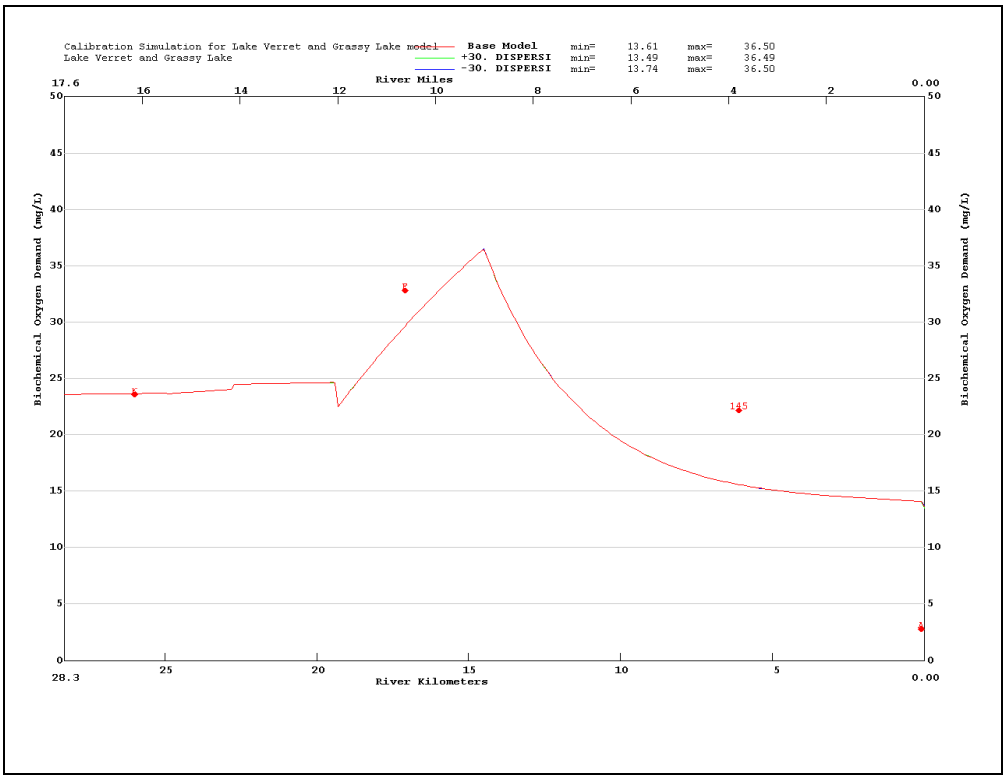

Figure K-15. BOD sensitivity results (dispersion) for subsegment 120204.

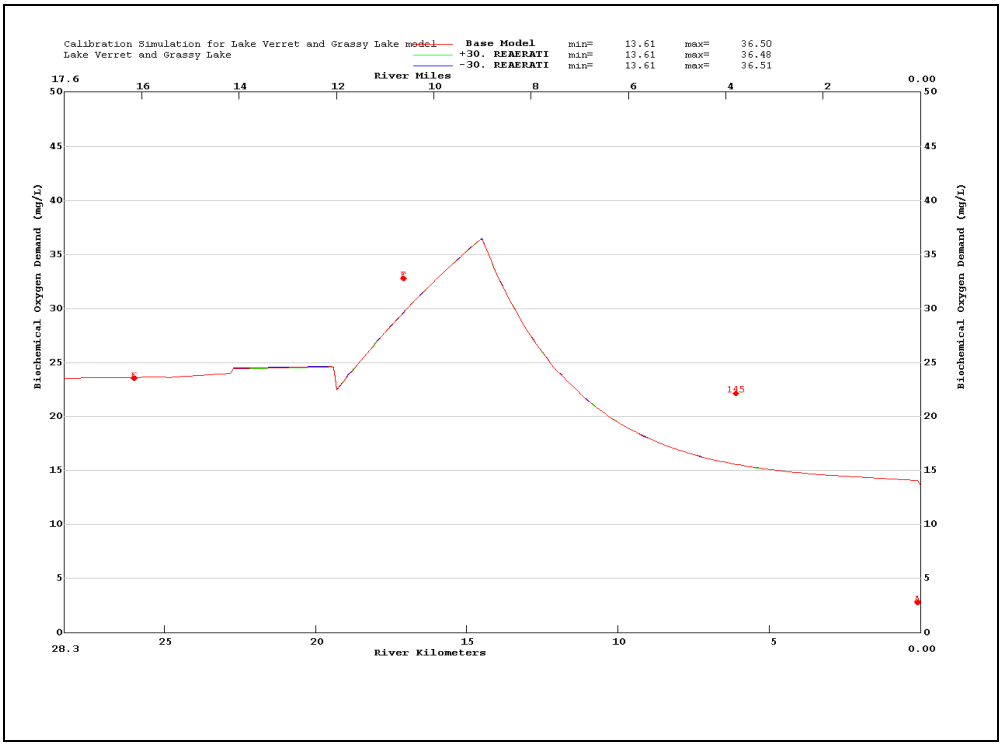

Figure K-16. BOD sensitivity results (reaeration) for subsegment 120204.

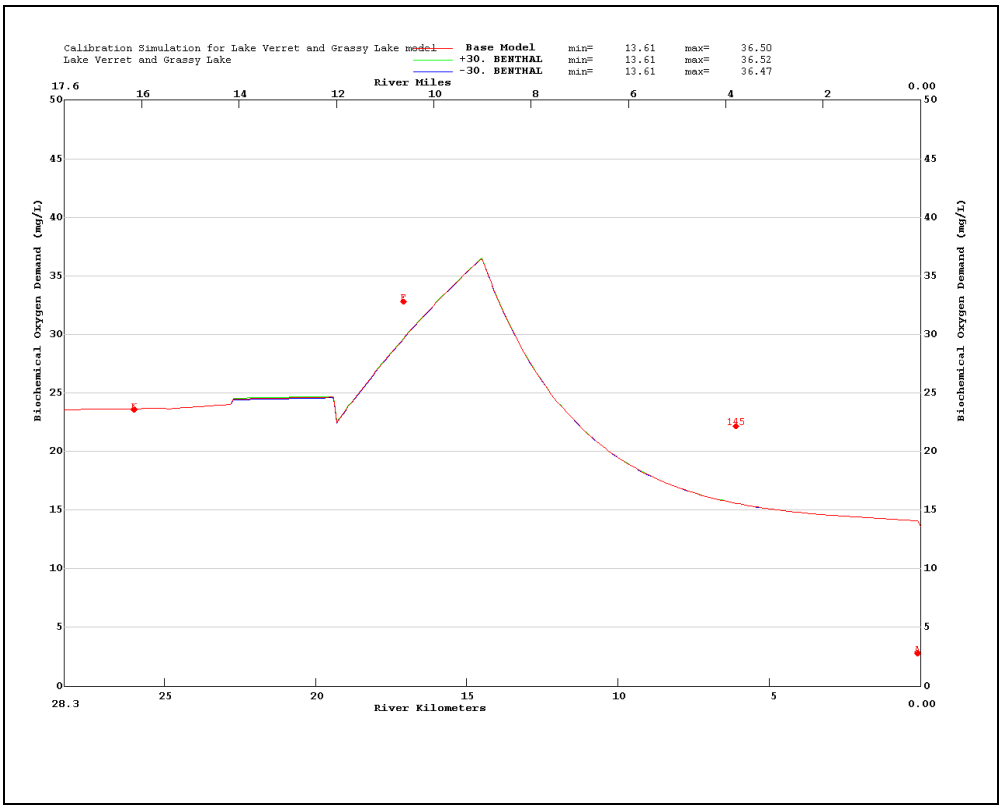

Figure K-17. BOD sensitivity results (background SOD) for subsegment 120204.

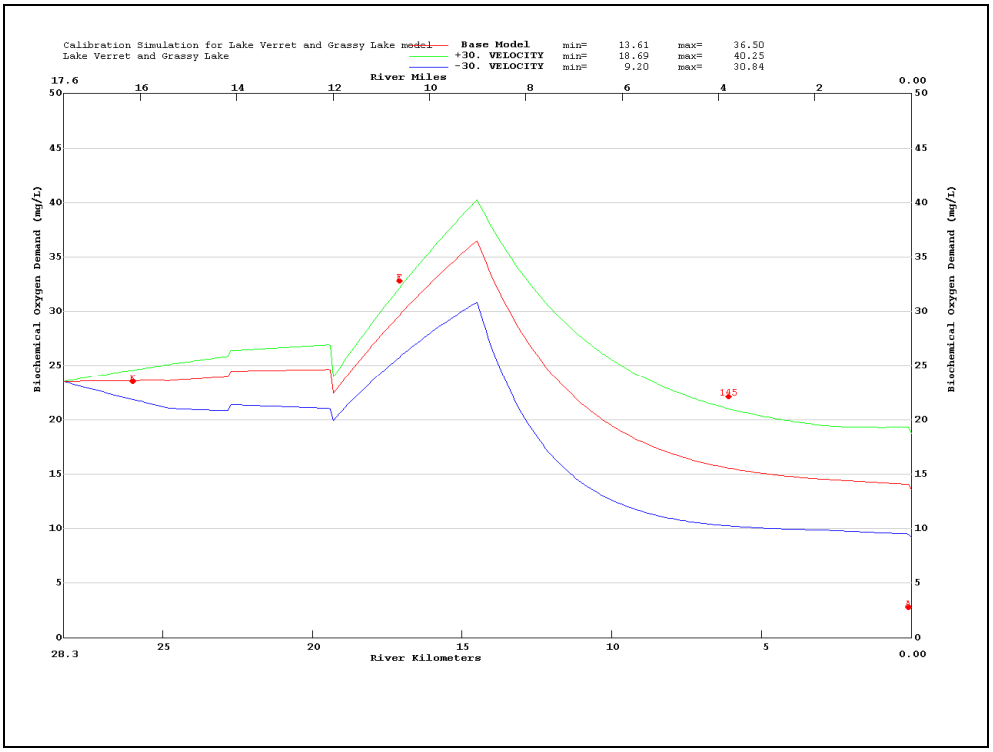

Figure K-18. BOD sensitivity results (stream velocity) for subsegment 120204.

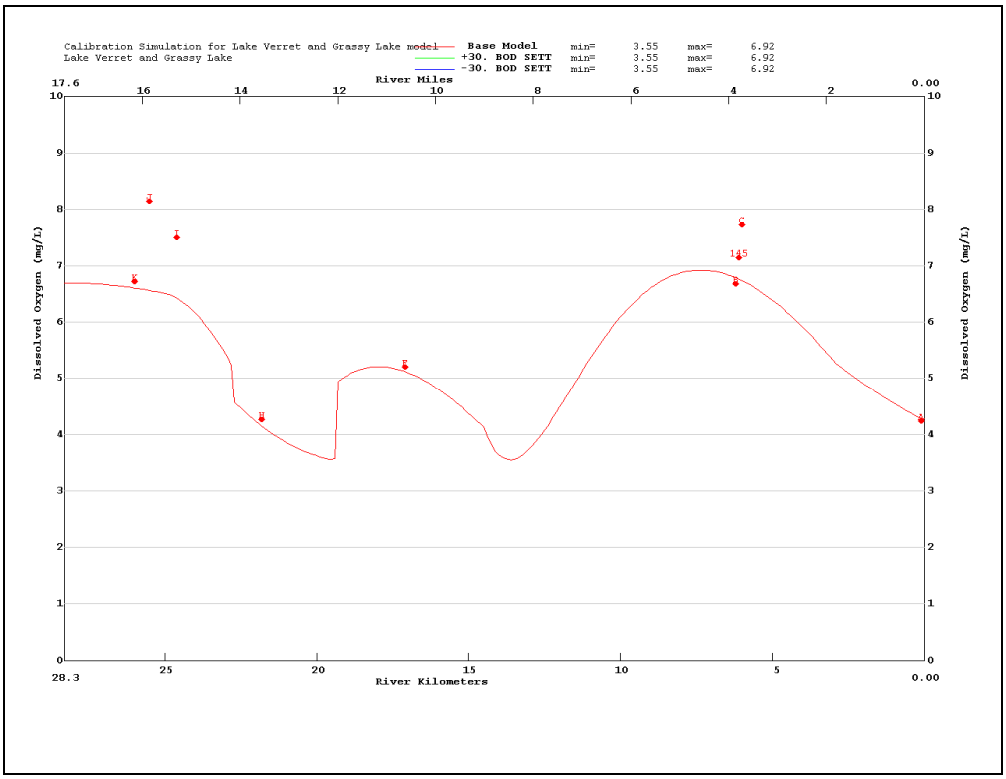

Figure K-19. DO sensitivity results (BOD settling rate) for subsegment 120204.

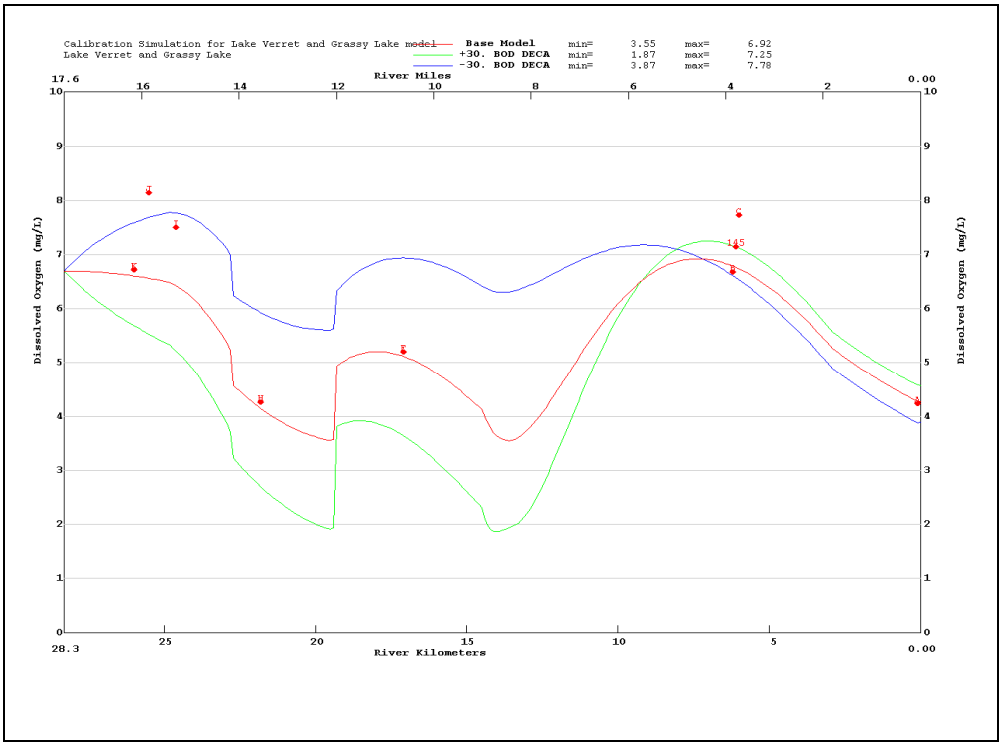

Figure K-20. DO sensitivity results (BOD aerobic decay rate) for subsegment 120204.

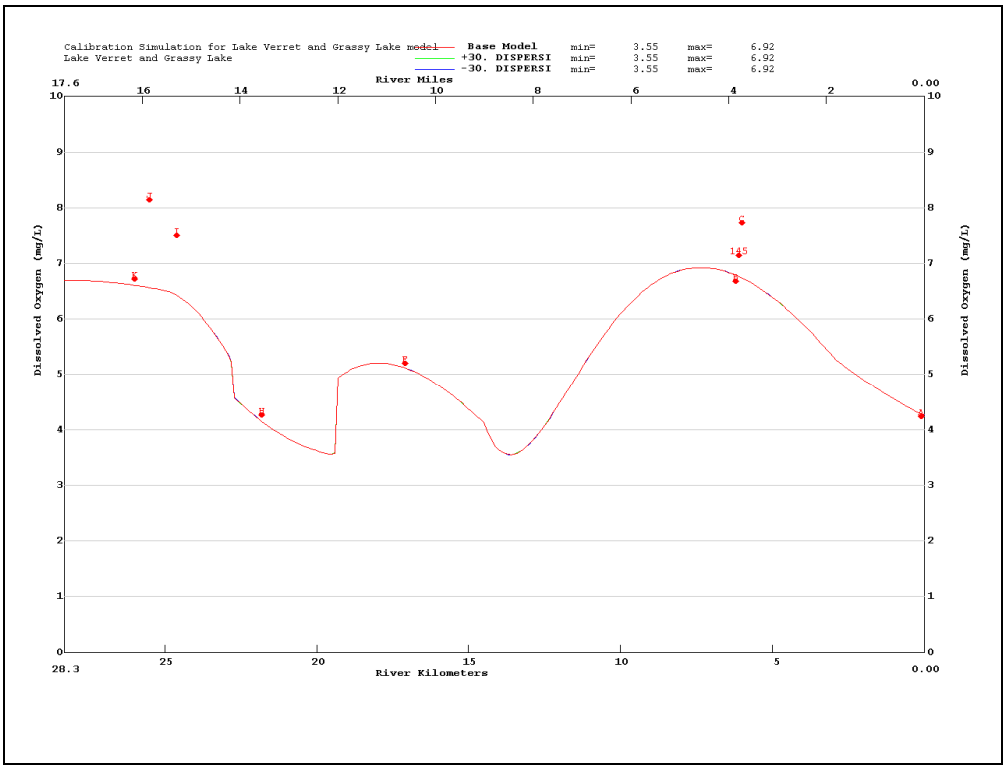

Figure K-21. DO sensitivity results (dispersion) for subsegment 120204.

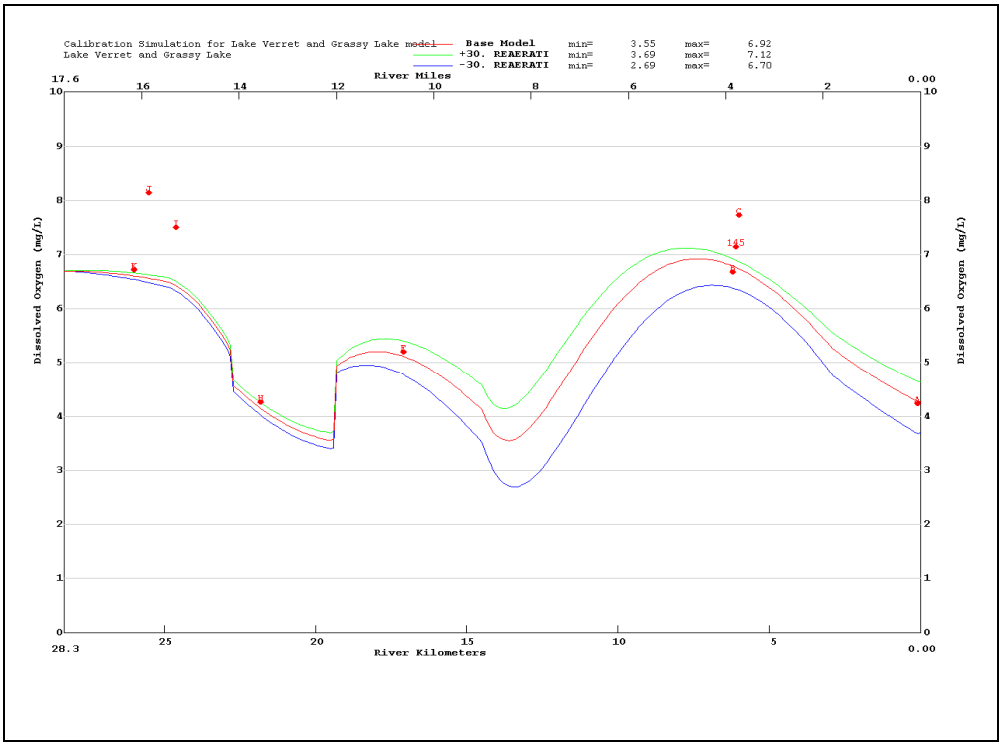

Figure K-22. DO sensitivity results (reaeration) for subsegment 120204.

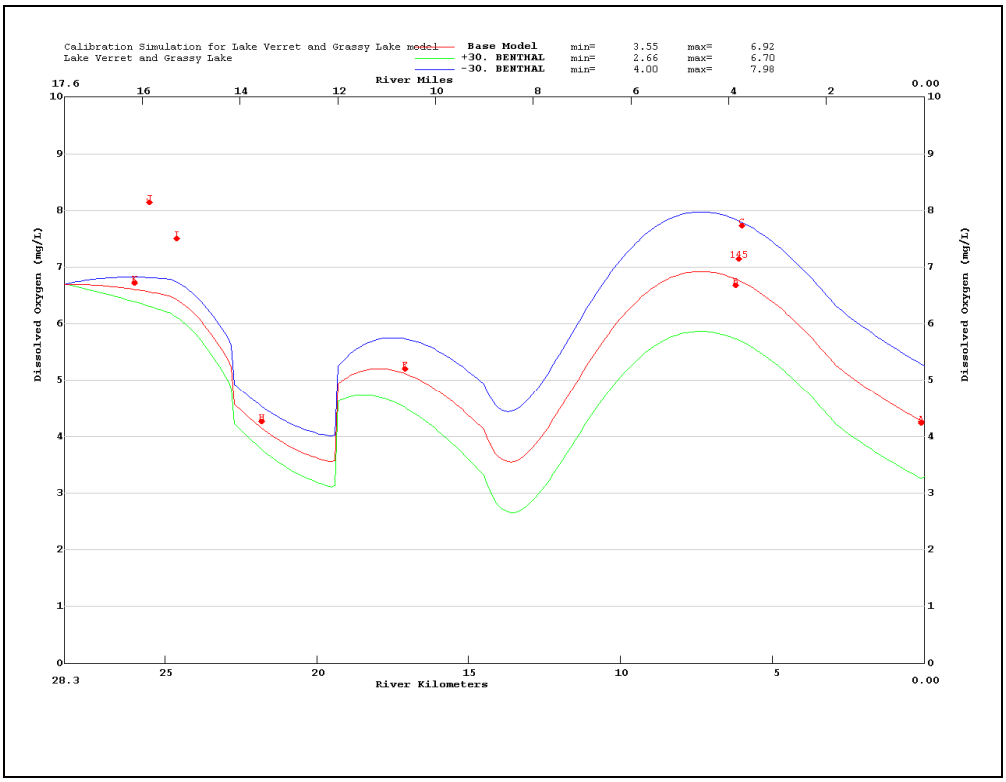

Figure K-23. DO sensitivity results (background SOD) for subsegment 120204.

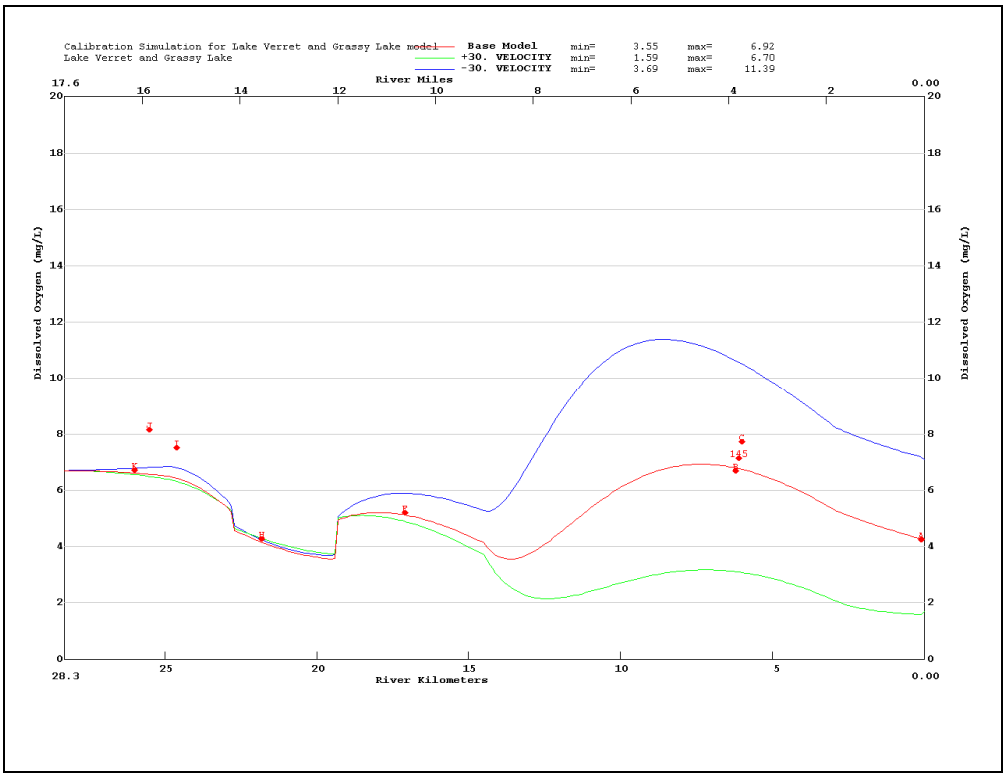

Figure K-24. DO sensitivity results (stream velocity) for subsegment 120204.

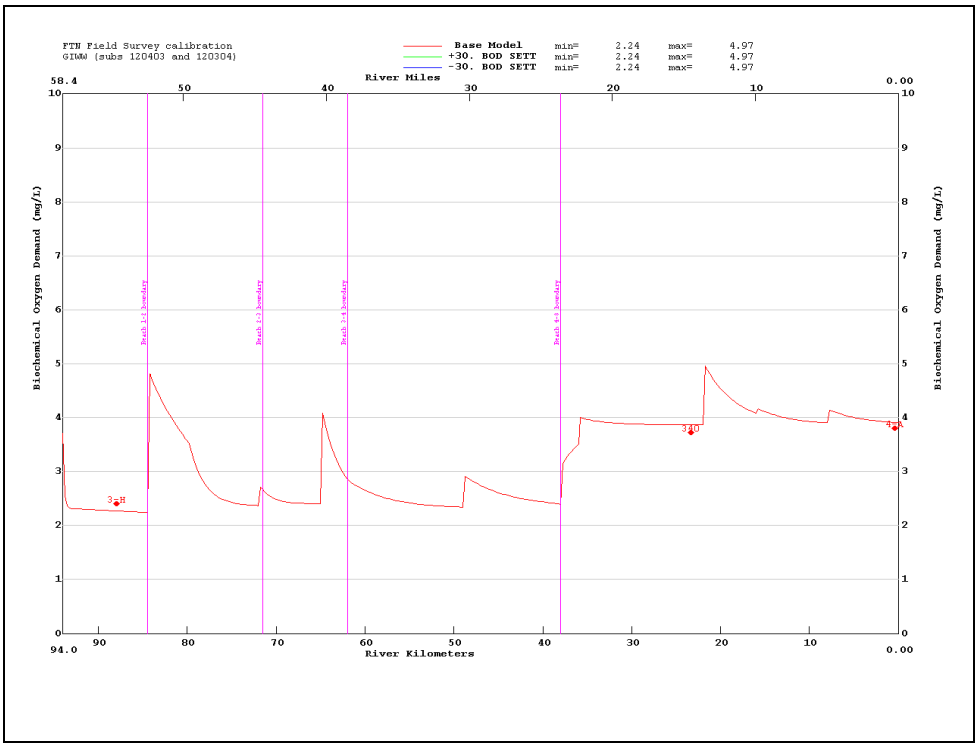

Figure K-25. BOD sensitivity results (BOD settling rate) for subsegments 120304 and 120403.

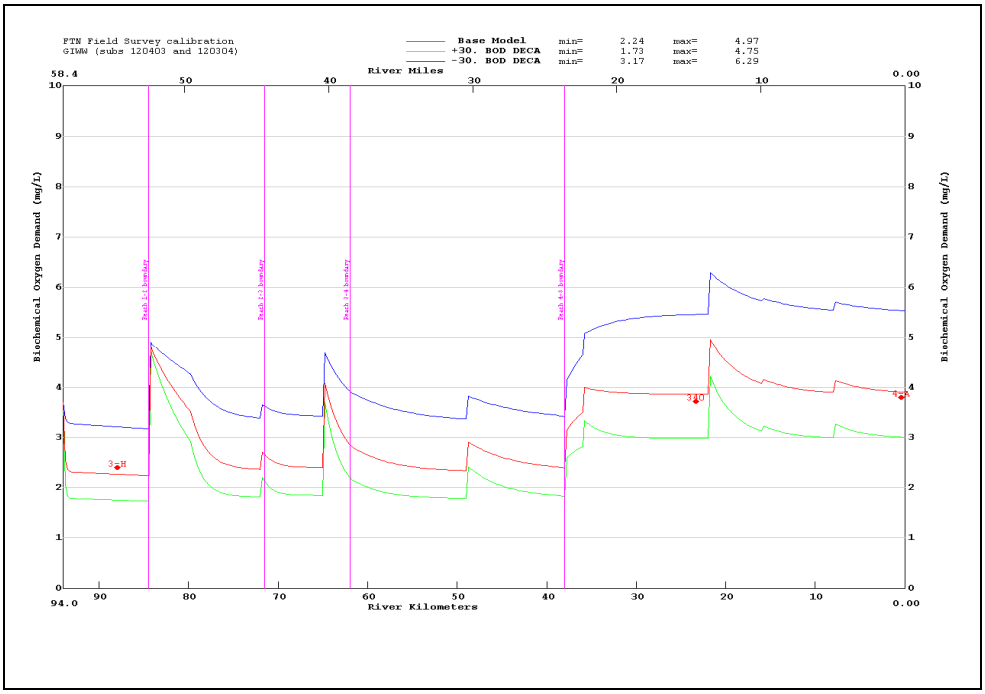

Figure K-26. BOD sensitivity results (BOD aerobic decay rate) for subsegments 120304 and 120403.

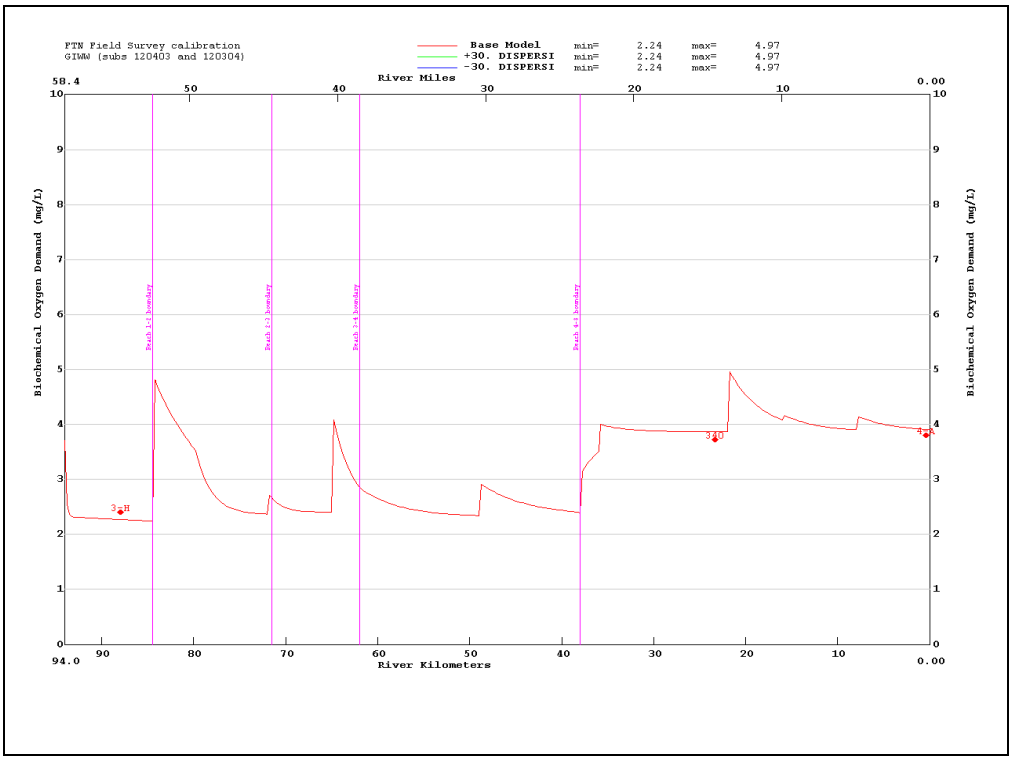

Figure K-27. BOD sensitivity results (dispersion) for subsegments 120304 and 120403.

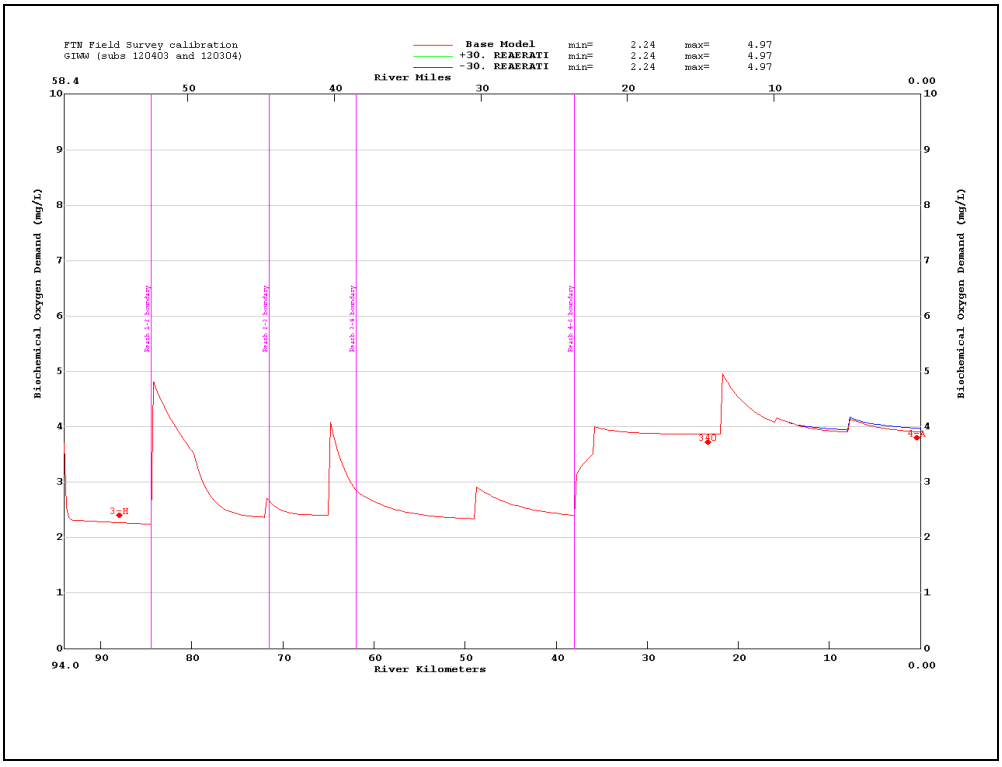

Figure K-28. BOD sensitivity results (reaeration) for subsegments 120304 and 120403.

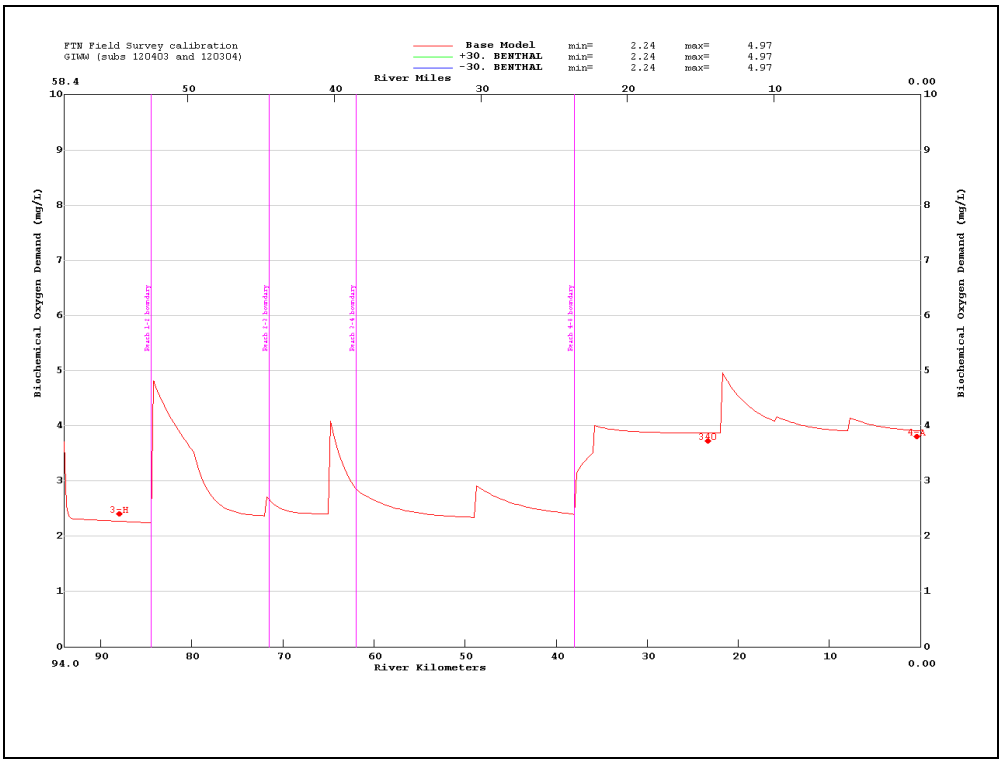

Figure K-29. BOD sensitivity results (background SOD) for subsegments 120304 and 120403.

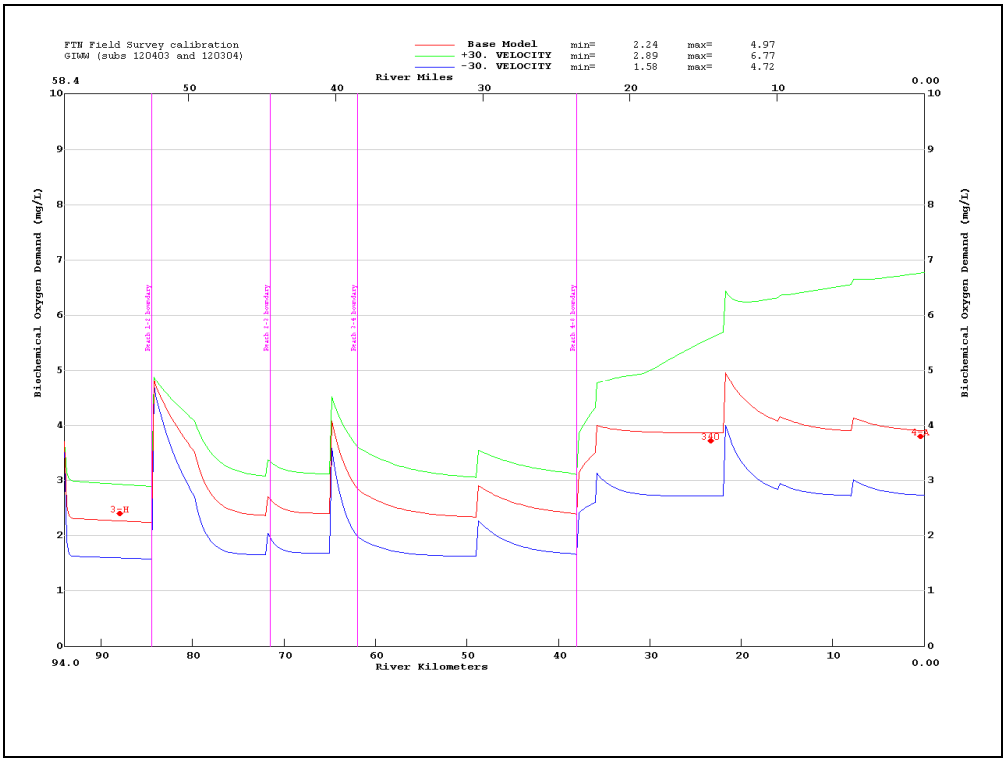

Figure K-30. BOD sensitivity results (stream velocity) for subsegments 120304 and 120403.

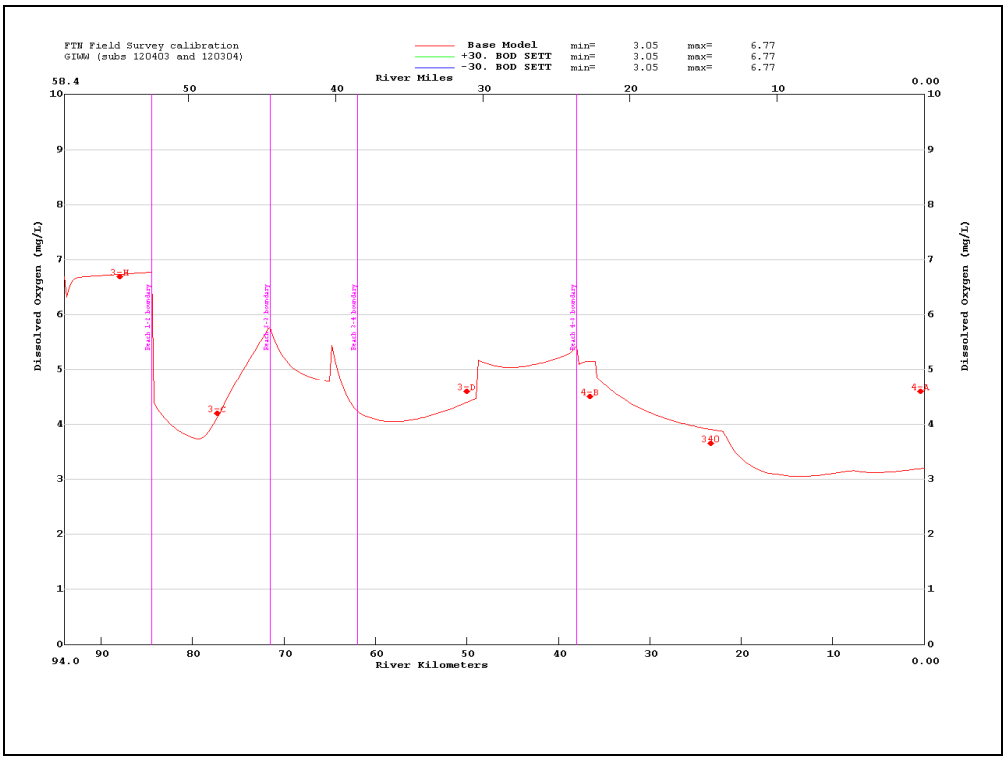

Figure K-31. DO sensitivity results (BOD settling rate) for subsegments 120304 and 120403.

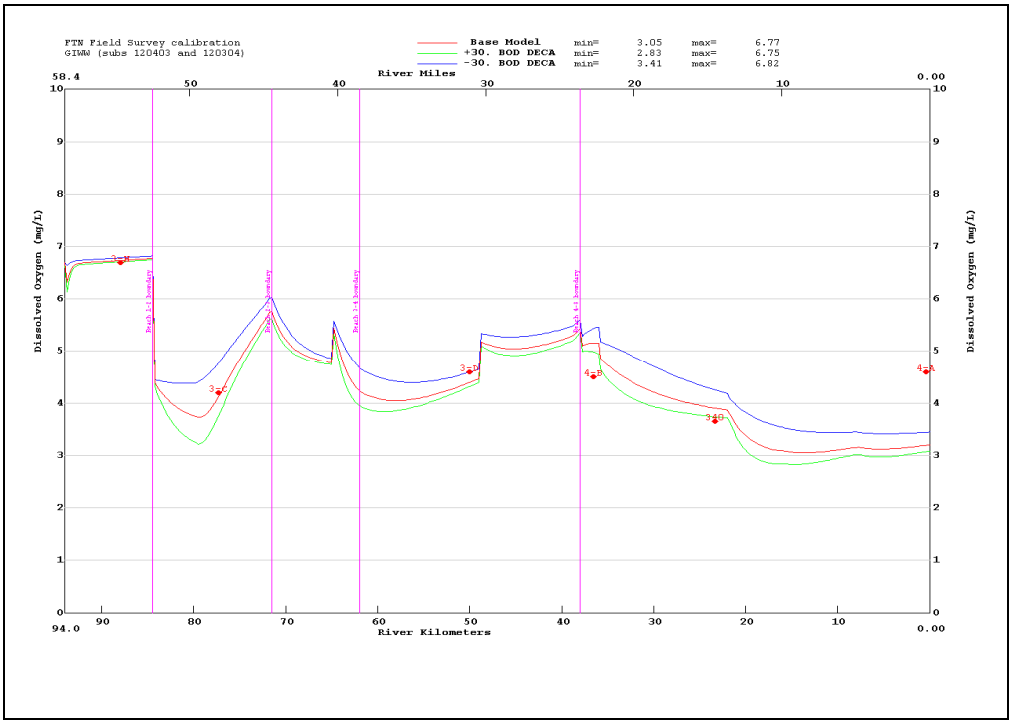

Figure K-32. DO sensitivity results (BOD aerobic decay rate) for subsegments 120304 and 120403.

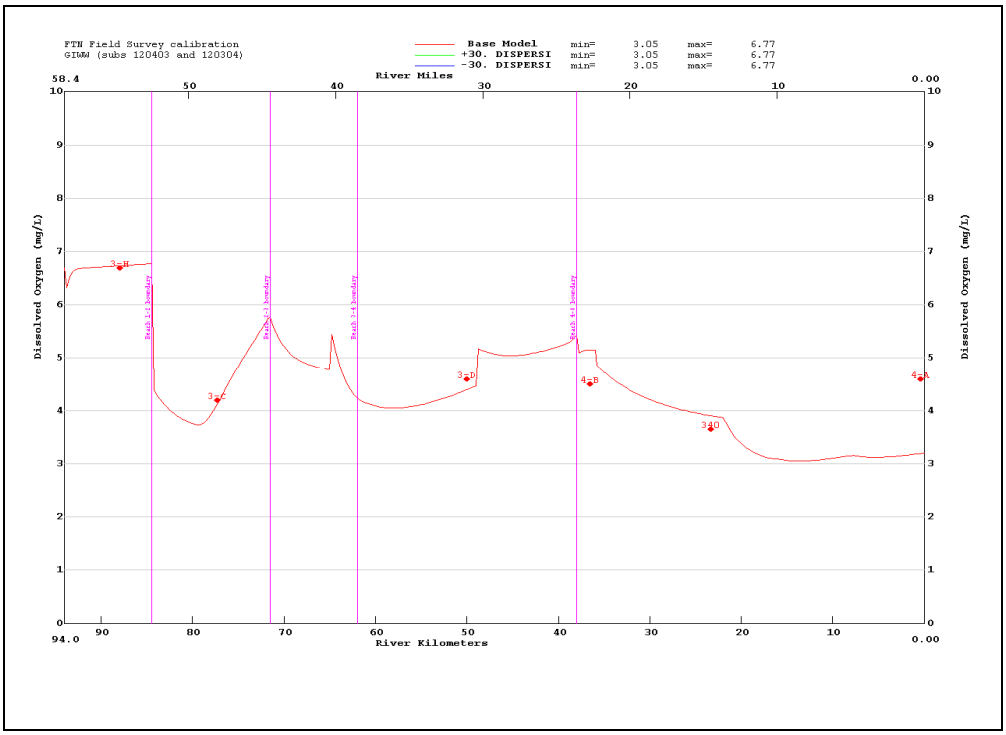

Figure K-33. DO sensitivity results (dispersion) for subsegments 120304 and 120403.

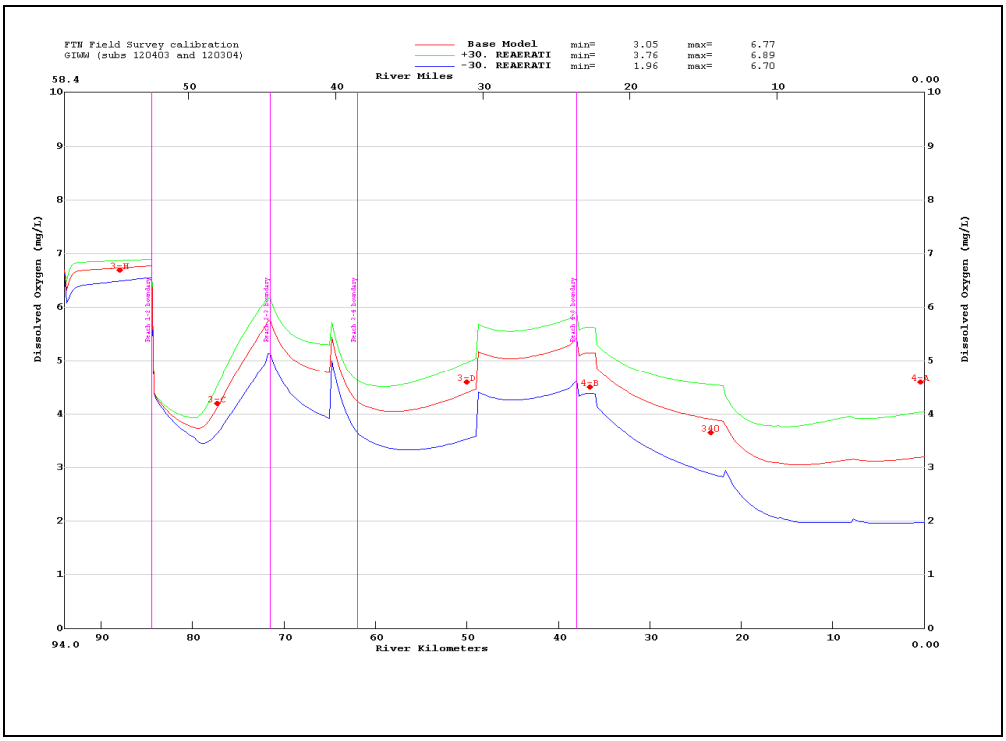

Figure K-34. DO sensitivity results (reaeration) for subsegments 120304 and 120403.

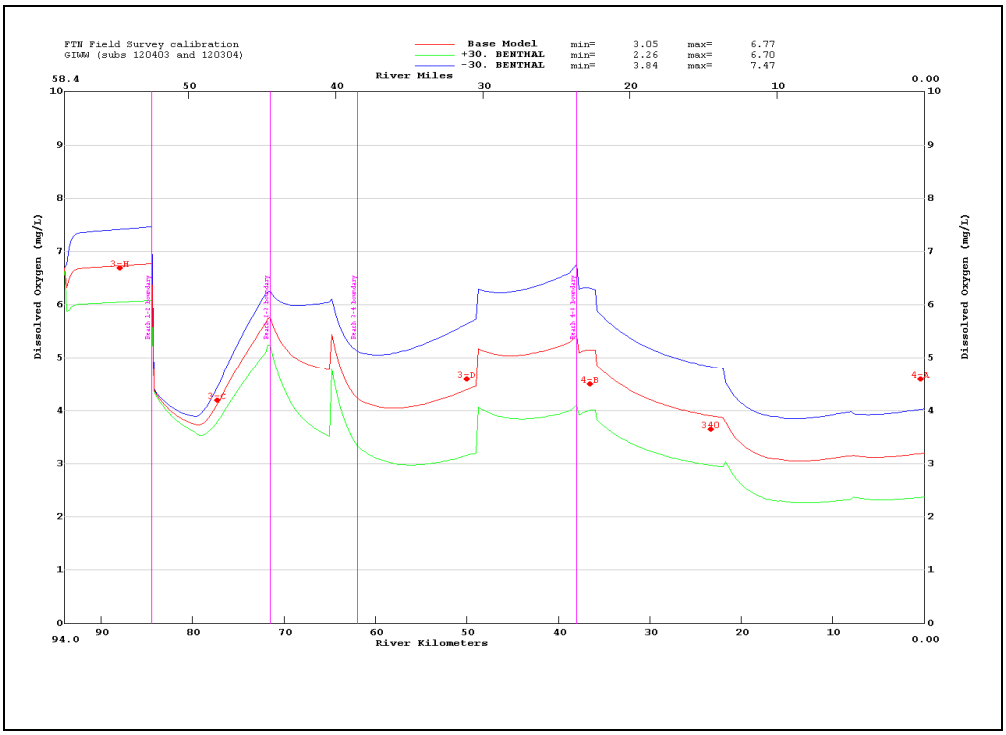

Figure K-35. DO sensitivity results (background SOD) for subsegments 120304 and 120403.

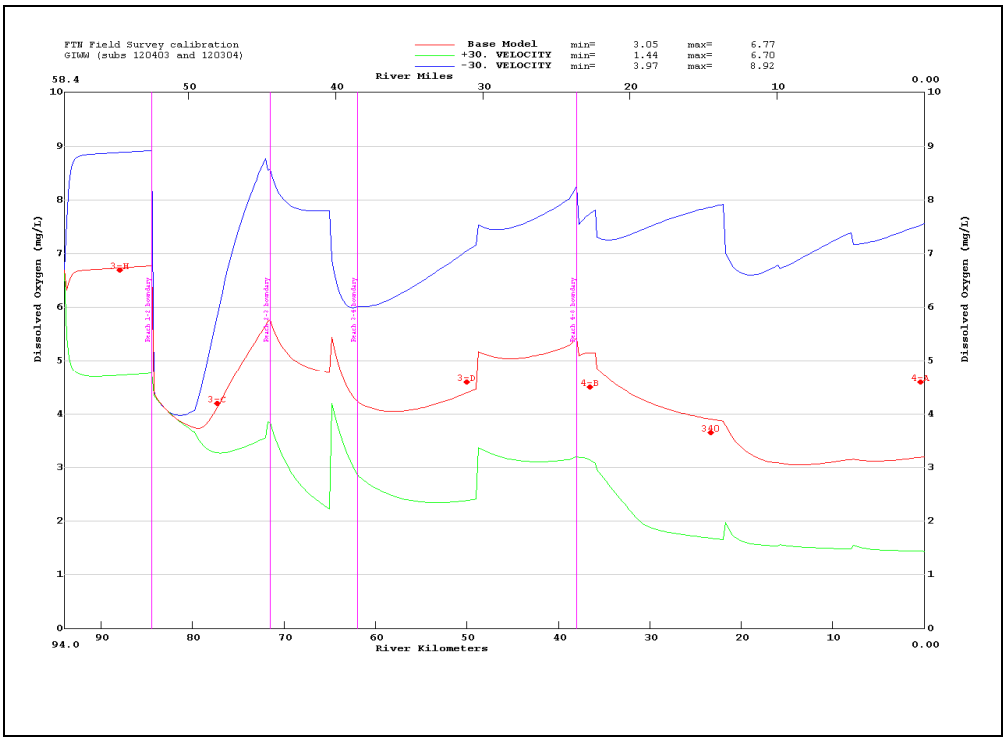

Figure K-36. DO sensitivity results (stream velocity) for subsegments 120304 and 120403.

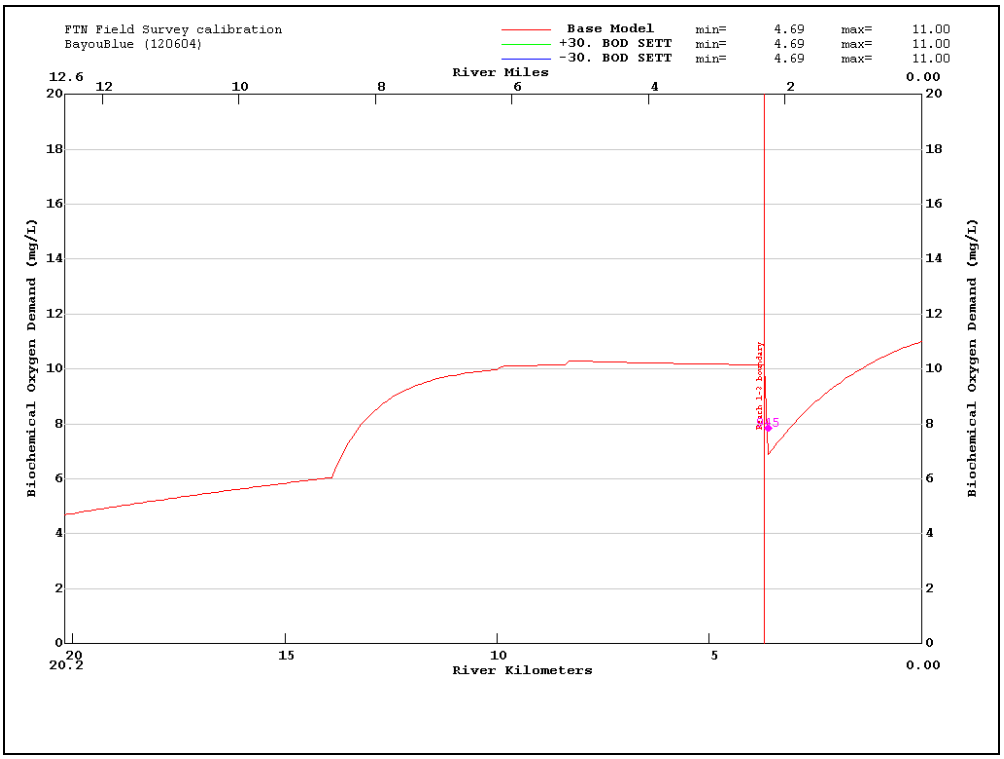

Figure K-37. BOD sensitivity results (BOD settling rate) for subsegment 120604.

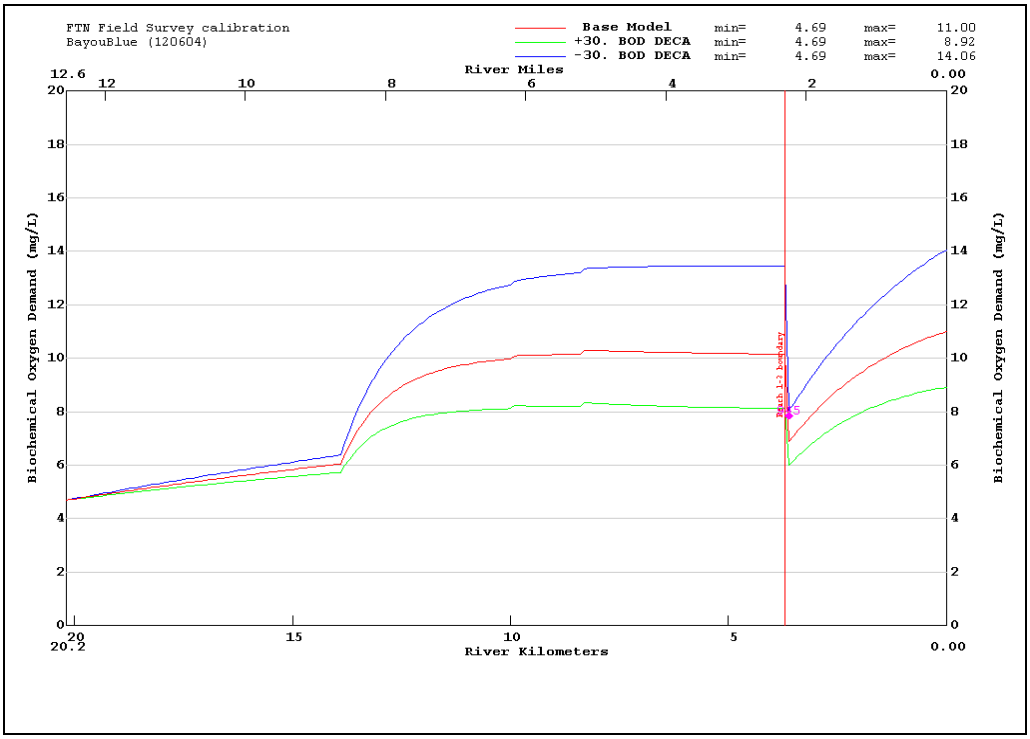

Figure K-38. BOD sensitivity results (BOD aerobic decay rate) for subsegment 120604.

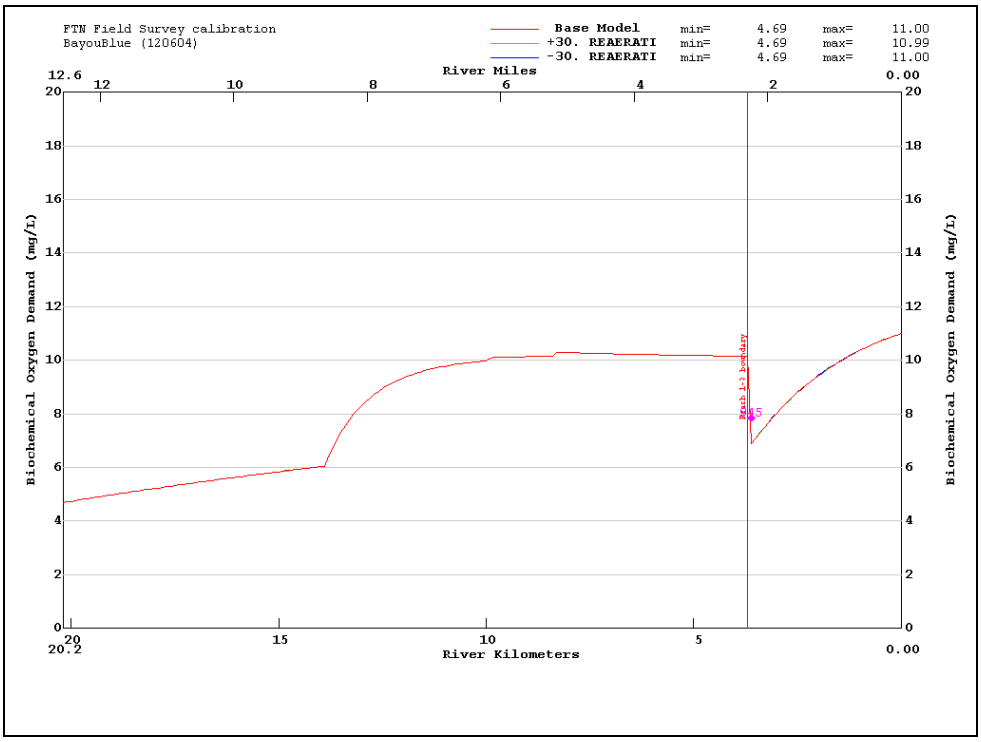

Figure K-39. BOD sensitivity results (dispersion) for subsegment 120604.

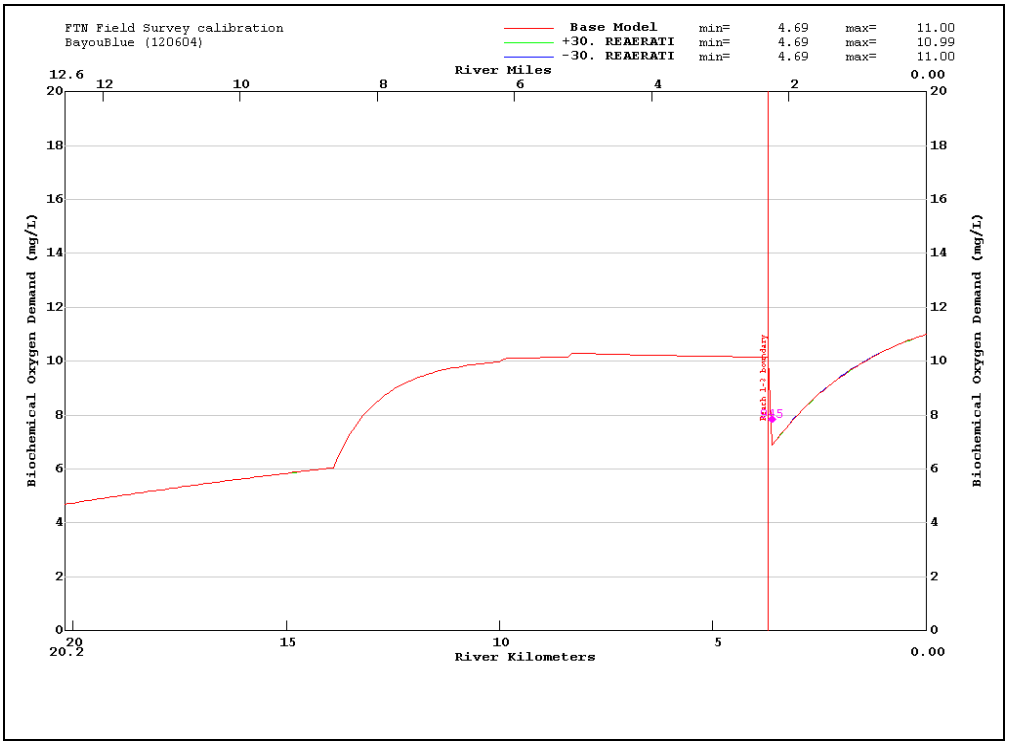

Figure K-40. BOD sensitivity results (reaeration) for subsegment 120604.

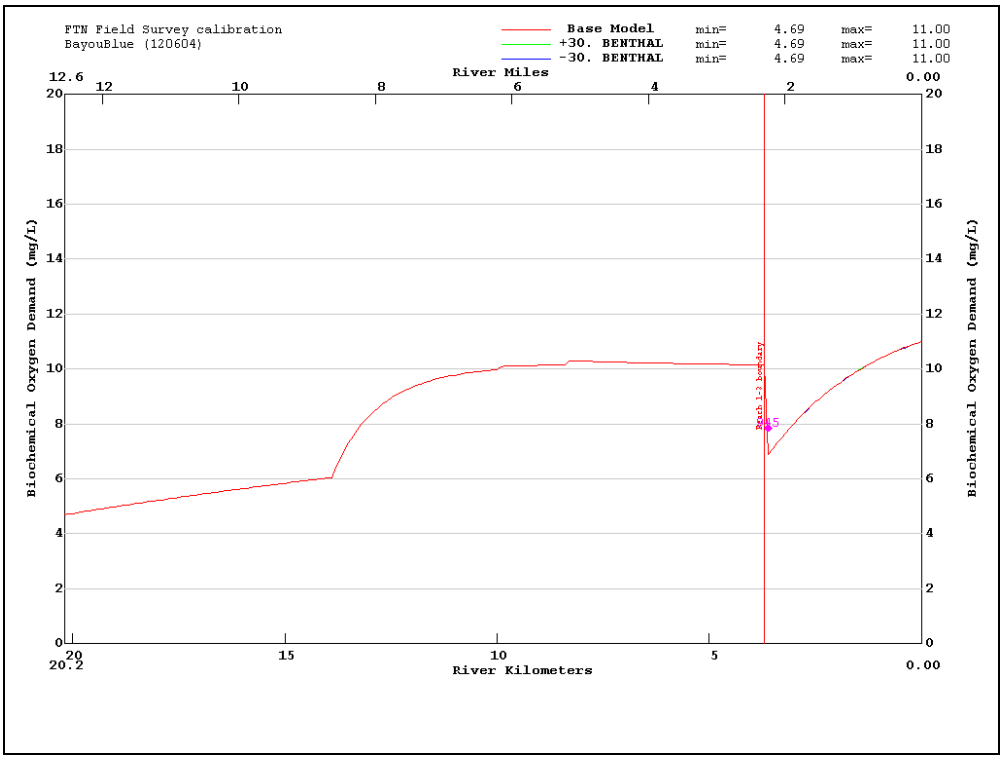

Figure K-41. BOD sensitivity results (background SOD) for subsegment 120604.

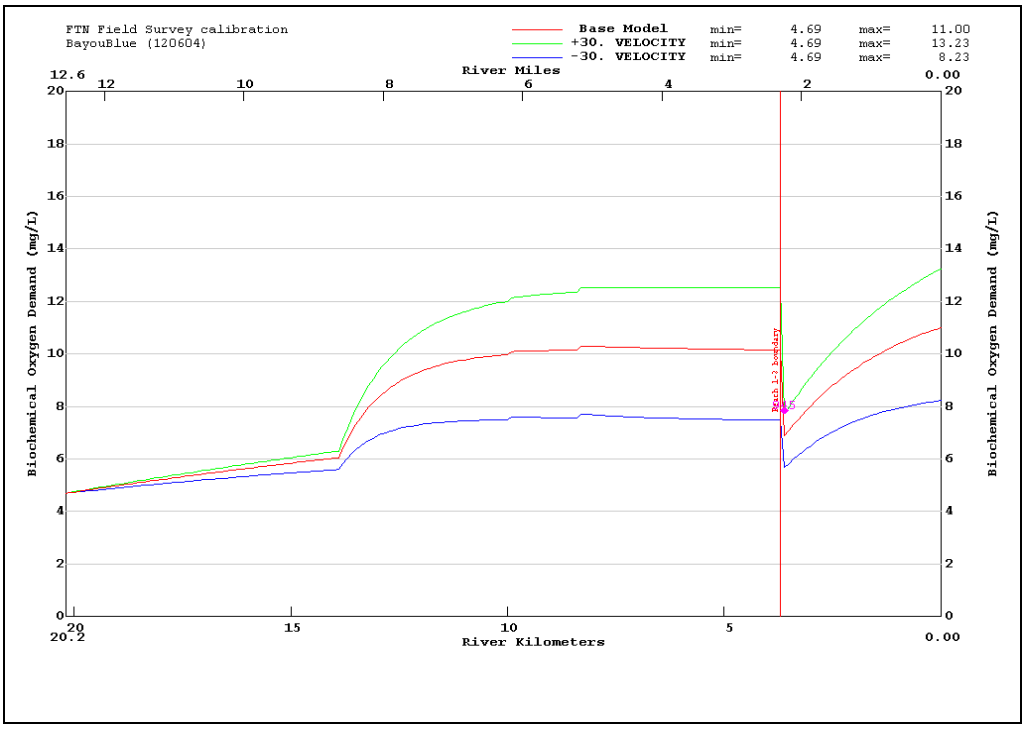

Figure K-42. BOD sensitivity results (stream velocity) for subsegment 120604.

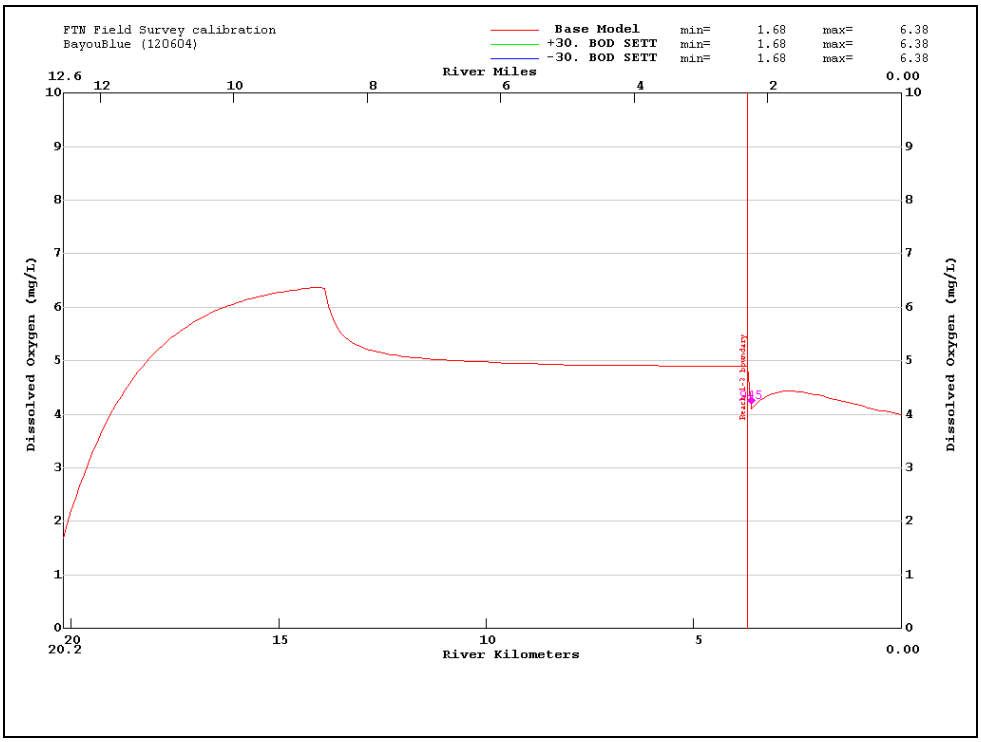

Figure K-43. DO sensitivity results (BOD settling rate) for subsegment 120604.

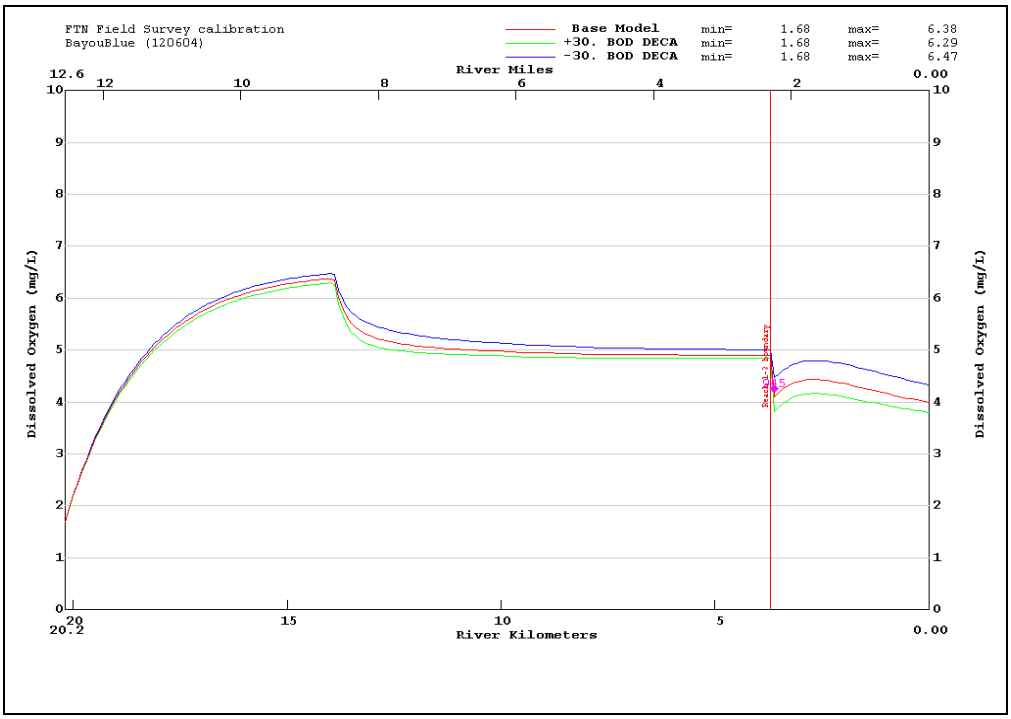

Figure K-44. DO sensitivity results (BOD aerobic decay rate) for subsegment 120604.

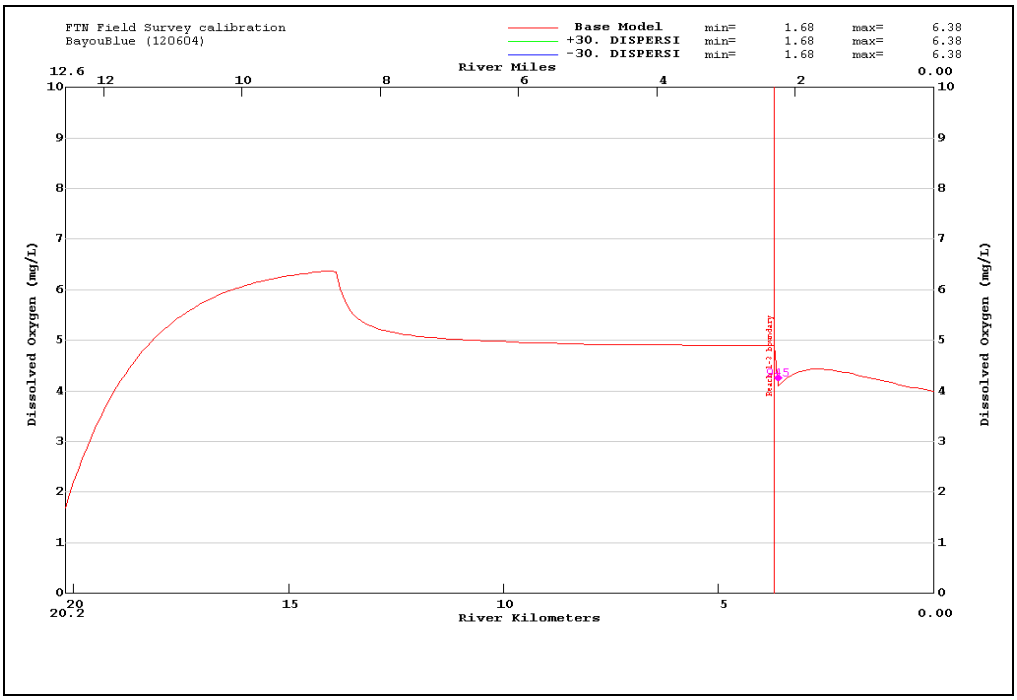

Figure K-45. DO sensitivity results (dispersion) for subsegment 120604.

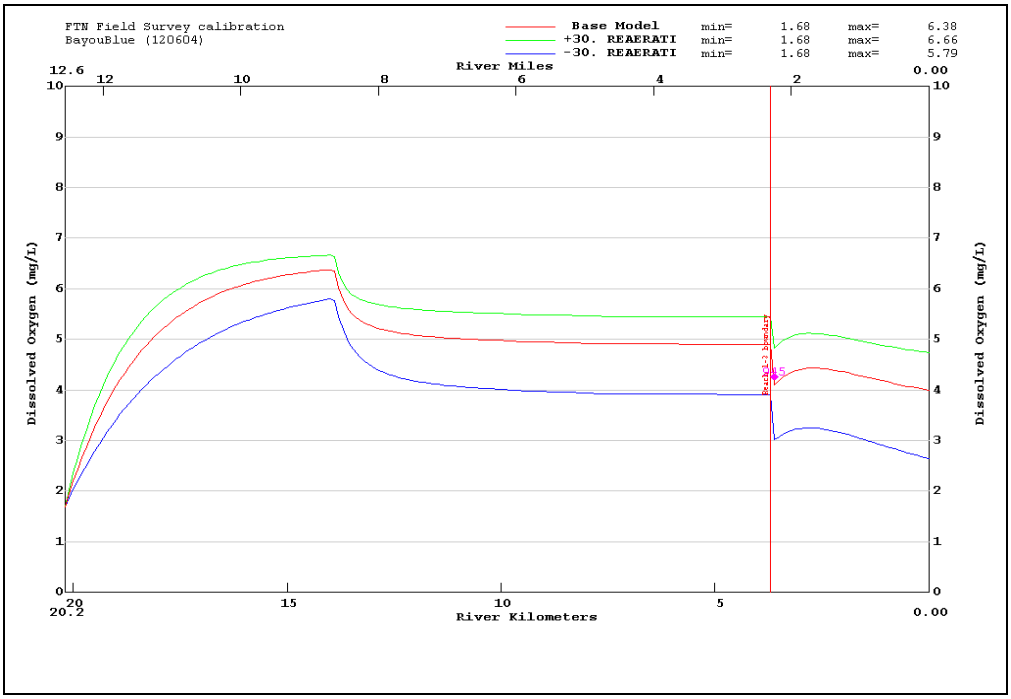

Figure K-46. DO sensitivity results (reaeration) for subsegment 120604.

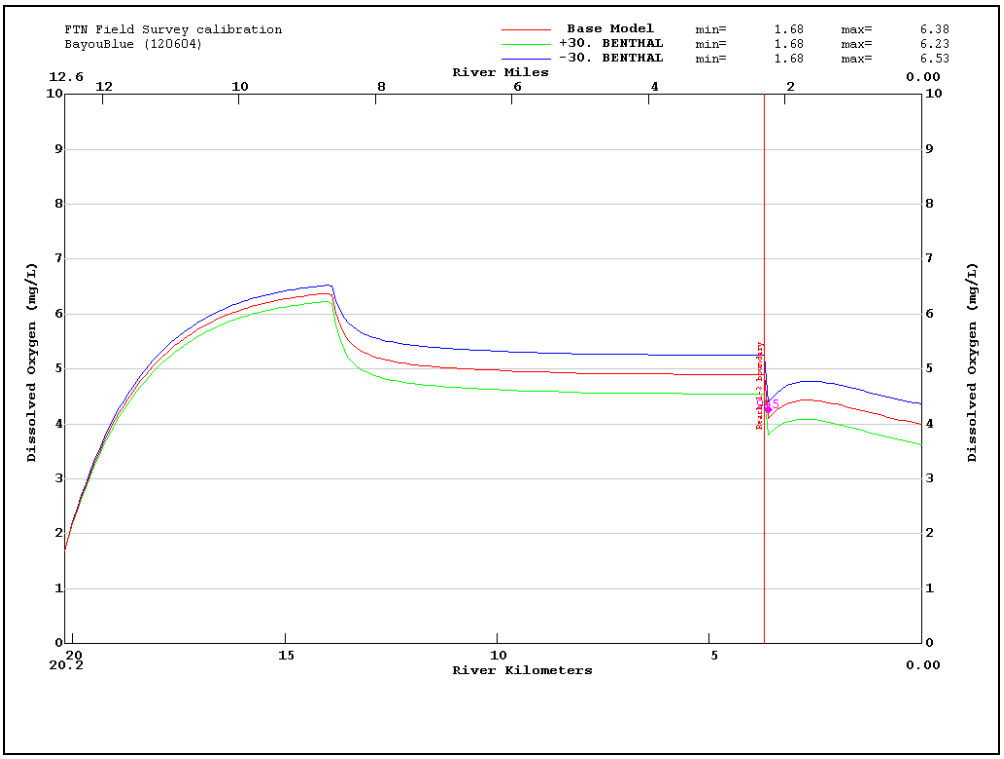

Figure K-47. DO sensitivity results (background SOD) for subsegment 120604.

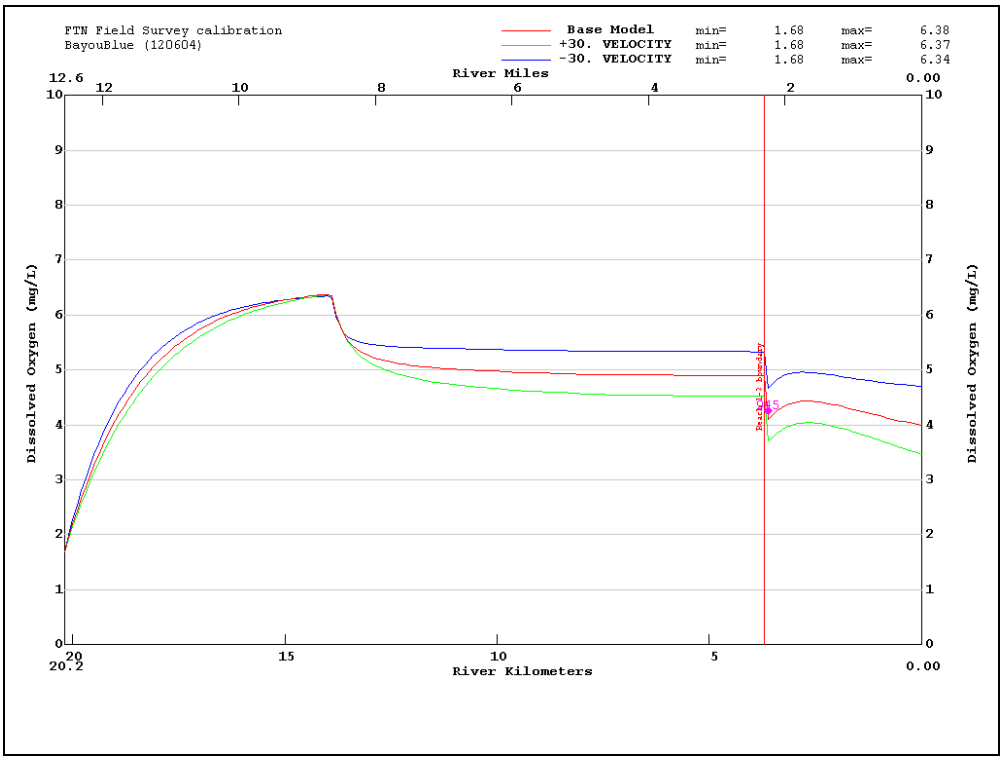

Figure K-48. DO sensitivity results (stream velocity) for subsegment 120604.

APPENDIX L:
AMMONIA TOXICITY CALCULATIONS

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Table L-1. Ammonia toxicity results for subsegment 120202

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
225	8.2	32.10	0.25	0.58	No
226	8.2	32.09	0.22	0.58	No
227	8.2	32.09	0.2	0.58	No
228	8.2	32.08	0.17	0.58	No
229	8.2	32.08	0.16	0.58	No
230	8.2	32.08	0.14	0.58	No
231	8.2	32.07	0.13	0.58	No
232	8.2	32.07	0.12	0.58	No
233	8.2	32.06	0.11	0.58	No
234	8.2	32.06	0.1	0.58	No
235	8.2	32.06	0.09	0.58	No
236	8.2	32.05	0.09	0.58	No
237	8.2	32.05	0.08	0.58	No
238	8.2	32.04	0.08	0.58	No
239	8.2	32.04	0.08	0.58	No
240	8.2	32.04	0.07	0.58	No
241	8.2	32.03	0.07	0.58	No
242	8.2	32.03	0.07	0.58	No
243	8.2	32.02	0.07	0.58	No
244	8.2	32.02	0.07	0.58	No
245	8.2	32.02	0.07	0.58	No
246	8.2	32.01	0.06	0.58	No
247	8.2	32.01	0.06	0.58	No
248	8.2	32.00	0.06	0.58	No
249	8.2	32.00	0.06	0.58	No
250	8.2	32.00	0.06	0.58	No
251	8.2	32.00	0.06	0.58	No
252	8.2	32.00	0.06	0.58	No
253	8.2	32.00	0.06	0.58	No
254	8.2	32.00	0.06	0.58	No
255	8.2	32.00	0.06	0.58	No
256	8.2	32.00	0.06	0.58	No
257	8.2	32.00	0.06	0.58	No
258	8.2	32.00	0.06	0.58	No
259	8.2	32.00	0.06	0.58	No
260	8.2	32.00	0.06	0.58	No
261	8.2	32.00	0.06	0.58	No
262	8.2	32.00	0.06	0.58	No
263	8.2	32.00	0.06	0.58	No
264	8.2	32.00	0.06	0.58	No
265	8.2	32.00	0.06	0.58	No
266	8.2	32.00	0.06	0.58	No
267	8.2	32.00	0.06	0.58	No
268	8.2	32.00	0.06	0.58	No

Table L-1. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
269	8.2	32.00	0.06	0.58	No
270	8.2	32.00	0.06	0.58	No
271	8.2	32.00	0.06	0.58	No
272	8.2	32.00	0.06	0.58	No
273	8.2	32.00	0.06	0.58	No
274	8.2	32.00	0.06	0.58	No
275	8.2	32.00	0.06	0.58	No
276	8.2	32.00	0.06	0.58	No
277	8.2	32.00	0.06	0.58	No
278	8.2	32.00	0.06	0.58	No
279	8.2	32.00	0.06	0.58	No
280	8.2	32.00	0.06	0.58	No
281	8.2	32.00	0.06	0.58	No
282	8.2	32.00	0.06	0.58	No
283	8.2	32.00	0.06	0.58	No
284	8.2	32.00	0.06	0.58	No
285	7.17	32.00	0.06	1.77	No
286	7.17	32.00	0.06	1.77	No
287	7.17	32.00	0.06	1.77	No
288	7.17	32.00	0.06	1.77	No
289	7.17	32.00	0.06	1.77	No
290	7.17	32.00	0.06	1.77	No
291	7.17	31.99	0.06	1.78	No
292	7.17	31.99	0.07	1.78	No
293	7.17	31.99	0.07	1.78	No
294	7.17	31.99	0.07	1.78	No
295	7.17	31.99	0.07	1.78	No
296	7.17	31.99	0.07	1.78	No
297	7.17	31.99	0.07	1.78	No
298	7.17	31.99	0.07	1.78	No
299	7.17	31.99	0.07	1.78	No
300	7.17	31.99	0.07	1.78	No
301	7.17	31.99	0.07	1.78	No
302	7.17	31.99	0.07	1.78	No
303	7.17	31.98	0.07	1.78	No
304	7.17	31.98	0.07	1.78	No
305	7.17	31.98	0.07	1.78	No
306	7.17	31.98	0.07	1.78	No
307	7.17	31.98	0.07	1.78	No
308	7.17	31.98	0.07	1.78	No
309	7.17	31.98	0.07	1.78	No
310	7.17	31.98	0.07	1.78	No
311	7.17	31.98	0.07	1.78	No
312	7.17	31.98	0.07	1.78	No
313	7.17	31.98	0.07	1.78	No

Table L-1. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
314	7.17	31.98	0.07	1.78	No
315	7.17	31.97	0.07	1.78	No
316	7.17	31.97	0.07	1.78	No
317	7.17	31.97	0.07	1.78	No
318	7.17	31.97	0.07	1.78	No
319	7.17	31.97	0.07	1.78	No
320	7.17	31.97	0.07	1.78	No
321	7.17	31.97	0.07	1.78	No
322	7.17	31.97	0.07	1.78	No
323	7.17	31.97	0.07	1.78	No
324	7.17	31.97	0.07	1.78	No
325	7.17	31.97	0.07	1.78	No
326	7.17	31.97	0.07	1.78	No
327	7.17	31.96	0.07	1.78	No
328	7.17	31.96	0.07	1.78	No
329	7.17	31.96	0.07	1.78	No
330	7.17	31.96	0.07	1.78	No
331	7.17	31.96	0.07	1.78	No
332	7.17	31.96	0.07	1.78	No
333	7.17	31.96	0.07	1.78	No
334	7.17	31.96	0.07	1.78	No
335	7.17	31.96	0.07	1.78	No
336	7.17	31.96	0.07	1.78	No
337	7.17	31.96	0.07	1.78	No
338	7.17	31.95	0.07	1.78	No
339	7.17	31.95	0.07	1.78	No
340	7.17	31.95	0.07	1.78	No
341	7.17	31.95	0.07	1.78	No
342	7.17	31.95	0.07	1.78	No
343	7.17	31.95	0.07	1.78	No
344	7.17	31.95	0.07	1.78	No
345	7.17	31.95	0.07	1.78	No
346	7.17	31.95	0.07	1.78	No
347	7.17	31.95	0.07	1.78	No
348	7.17	31.95	0.07	1.78	No
349	7.17	31.95	0.07	1.78	No
350	7.17	31.94	0.07	1.78	No
351	7.17	31.94	0.07	1.78	No
352	7.17	31.94	0.14	1.78	No
353	7.17	31.94	0.14	1.78	No
354	7.17	31.94	0.14	1.78	No
355	7.17	31.94	0.14	1.78	No
356	7.17	31.94	0.14	1.78	No
357	7.17	31.94	0.13	1.78	No

Table L-1. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
358	7.17	31.94	0.13	1.78	No
359	7.17	31.94	0.13	1.78	No
360	7.17	31.94	0.13	1.78	No
361	7.17	31.94	0.13	1.78	No
362	7.17	31.93	0.13	1.78	No
363	7.17	31.93	0.13	1.78	No
364	7.17	31.93	0.13	1.78	No
365	7.17	31.93	0.13	1.78	No
366	7.17	31.93	0.13	1.78	No
367	7.17	31.93	0.13	1.78	No
368	7.17	31.93	0.13	1.78	No
369	7.17	31.93	0.13	1.78	No
370	7.17	31.93	0.13	1.78	No
371	7.17	31.93	0.13	1.78	No
372	7.17	31.93	0.13	1.78	No
373	7.17	31.93	0.12	1.78	No
374	7.17	31.92	0.12	1.78	No
375	7.17	31.92	0.12	1.78	No
376	7.17	31.92	0.12	1.78	No
377	7.17	31.92	0.12	1.78	No
378	7.17	31.92	0.12	1.78	No
379	7.17	31.92	0.12	1.78	No
380	7.17	31.92	0.12	1.78	No
381	7.17	31.92	0.12	1.78	No
382	7.17	31.92	0.12	1.78	No
383	7.17	31.92	0.12	1.78	No
384	7.17	31.92	0.12	1.78	No
385	7.17	31.92	0.12	1.78	No
386	7.17	31.91	0.12	1.78	No
387	7.17	31.91	0.12	1.78	No
388	7.17	31.91	0.12	1.78	No
389	7.17	31.91	0.12	1.78	No
390	7.17	31.91	0.12	1.78	No
391	7.17	31.91	0.12	1.78	No
392	7.17	31.91	0.12	1.78	No
393	7.17	31.91	0.12	1.78	No
394	7.17	31.91	0.11	1.78	No
395	7.17	31.91	0.11	1.78	No
396	7.17	31.91	0.11	1.78	No
397	7.17	31.91	0.11	1.78	No
398	7.17	31.90	0.11	1.79	No
399	7.17	31.90	0.11	1.79	No
400	7.17	31.90	0.11	1.79	No

Table L-1. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
401	7.17	31.90	0.11	1.79	No
402	7.17	31.90	0.12	1.79	No
403	7.17	31.90	0.11	1.79	No
404	7.17	31.90	0.11	1.79	No

Table L-2. Ammonia toxicity results for subsegment 120204

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
1	9.05	33.12	0.1	0.14	No
2	9.05	33.15	0.1	0.14	No
3	9.05	33.17	0.1	0.14	No
4	9.05	33.19	0.1	0.14	No
5	9.05	33.21	0.1	0.14	No
6	9.05	33.24	0.09	0.14	No
7	9.05	33.26	0.09	0.14	No
8	9.05	33.28	0.09	0.14	No
9	9.05	33.31	0.09	0.13	No
10	9.05	33.33	0.09	0.13	No
11	9.05	33.35	0.09	0.13	No
12	9.05	33.37	0.09	0.13	No
13	9.05	33.4	0.09	0.13	No
14	9.05	33.42	0.09	0.13	No
15	9.05	33.44	0.09	0.13	No
16	9.05	33.47	0.09	0.13	No
17	9.05	33.49	0.09	0.13	No
18	9.05	33.51	0.09	0.13	No
19	9.05	33.53	0.09	0.13	No
20	9.05	33.56	0.09	0.13	No
21	9.05	33.58	0.09	0.13	No
22	9.05	33.6	0.09	0.13	No
23	9.05	33.63	0.09	0.13	No
24	9.05	33.65	0.09	0.13	No
25	9.05	33.67	0.09	0.13	No
26	9.05	33.69	0.09	0.13	No
27	9.05	33.72	0.09	0.13	No
28	9.05	33.74	0.09	0.13	No
29	9.05	33.76	0.09	0.13	No
30	9.05	33.79	0.09	0.13	No
31	9.05	33.81	0.09	0.13	No
32	9.05	33.83	0.09	0.13	No
33	9.05	33.85	0.09	0.13	No
34	9.05	33.88	0.09	0.13	No
35	9.05	33.9	0.09	0.13	No
36	8.10	33.85	0.09	0.60	No

Table L-2. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
37	8.10	33.8	0.09	0.61	No
38	8.10	33.75	0.09	0.61	No
39	8.10	33.7	0.09	0.61	No
40	8.10	33.65	0.09	0.61	No
41	8.10	33.6	0.09	0.61	No
42	8.10	33.55	0.09	0.61	No
43	8.10	33.5	0.09	0.62	No
44	8.10	33.45	0.09	0.62	No
45	8.10	33.4	0.09	0.62	No
46	8.10	33.35	0.09	0.62	No
47	8.10	33.3	0.09	0.62	No
48	8.10	33.25	0.09	0.63	No
49	8.10	33.2	0.09	0.63	No
50	8.10	33.15	0.09	0.63	No
51	8.10	33.1	0.09	0.63	No
52	8.10	33.05	0.09	0.63	No
53	8.10	33	0.09	0.64	No
54	8.10	32.95	0.09	0.64	No
55	8.10	32.9	0.09	0.64	No
56	8.22	33.88	0.1	0.50	No
57	8.22	33.85	0.1	0.50	No
58	8.22	33.83	0.1	0.50	No
59	8.22	33.8	0.1	0.50	No
60	8.22	33.78	0.1	0.50	No
61	8.22	33.76	0.09	0.50	No
62	8.22	33.73	0.09	0.50	No
63	8.22	33.71	0.09	0.50	No
64	8.22	33.69	0.09	0.50	No
65	8.22	33.66	0.09	0.51	No
66	8.22	33.64	0.09	0.51	No
67	8.22	33.61	0.09	0.51	No
68	8.22	33.59	0.09	0.51	No
69	8.22	33.57	0.09	0.51	No
70	8.22	33.54	0.09	0.51	No
71	8.22	33.52	0.09	0.51	No
72	8.22	33.5	0.09	0.51	No
73	8.22	33.47	0.09	0.51	No
74	8.22	33.45	0.09	0.51	No
75	8.22	33.42	0.09	0.51	No
76	8.22	33.4	0.09	0.51	No
77	8.22	33.38	0.09	0.51	No
78	8.22	33.35	0.09	0.52	No

Table L-2. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
79	8.22	33.33	0.09	0.52	No
80	8.22	33.3	0.09	0.52	No
81	8.22	33.28	0.09	0.52	No
82	8.22	33.26	0.09	0.52	No
83	8.22	33.23	0.09	0.52	No
84	8.22	33.21	0.09	0.52	No
85	8.22	33.19	0.09	0.52	No
86	8.22	33.16	0.09	0.52	No
87	8.22	33.14	0.09	0.52	No
88	8.22	33.11	0.09	0.52	No
89	8.22	33.09	0.09	0.52	No
90	8.22	33.07	0.09	0.53	No
91	8.22	33.04	0.09	0.53	No
92	8.22	33.02	0.09	0.53	No
93	8.22	33	0.09	0.53	No
94	8.22	32.97	0.09	0.53	No
95	8.22	32.95	0.09	0.53	No
96	8.22	32.92	0.09	0.53	No
97	8.22	32.9	0.09	0.53	No
98	8.33	32.9	0.09	0.44	No
99	8.33	32.89	0.09	0.44	No
100	8.33	32.89	0.09	0.44	No
101	8.33	32.89	0.09	0.44	No
102	8.33	32.89	0.09	0.44	No
103	8.33	32.88	0.09	0.44	No
104	8.33	32.88	0.09	0.44	No
105	8.33	32.88	0.09	0.44	No
106	8.33	32.87	0.09	0.44	No
107	8.33	32.87	0.09	0.44	No
108	8.33	32.87	0.09	0.44	No
109	8.33	32.86	0.09	0.44	No
110	8.33	32.86	0.09	0.44	No
111	8.33	32.86	0.09	0.44	No
112	8.33	32.86	0.09	0.44	No
113	8.33	32.85	0.09	0.44	No
114	8.33	32.85	0.09	0.44	No
115	8.33	32.85	0.09	0.44	No
116	8.33	32.84	0.09	0.45	No
117	8.33	32.84	0.09	0.45	No
118	8.33	32.84	0.09	0.45	No
119	8.33	32.84	0.09	0.45	No
120	8.33	32.83	0.09	0.45	No
121	8.33	32.83	0.09	0.45	No

Table L-2. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
122	8.33	32.83	0.09	0.45	No
123	8.33	32.82	0.09	0.45	No
124	8.33	32.82	0.09	0.45	No
125	8.33	32.82	0.09	0.45	No
126	8.33	32.81	0.09	0.45	No
127	8.33	32.81	0.09	0.45	No
128	8.33	32.81	0.09	0.45	No
129	8.33	32.81	0.09	0.45	No
130	8.33	32.8	0.09	0.45	No
131	8.33	32.8	0.09	0.45	No
132	9.15	32.8	0.1	0.12	No
133	9.15	32.79	0.1	0.12	No
134	9.15	32.79	0.1	0.12	No
135	9.15	32.78	0.1	0.12	No
136	9.15	32.78	0.1	0.12	No
137	9.15	32.78	0.1	0.12	No
138	9.15	32.77	0.1	0.12	No
139	9.15	32.77	0.1	0.12	No
140	9.15	32.76	0.1	0.12	No
141	9.15	32.76	0.1	0.12	No
142	9.15	32.76	0.1	0.12	No
143	9.15	32.75	0.1	0.12	No
144	9.15	32.75	0.1	0.12	No
145	9.15	32.74	0.1	0.12	No
146	9.15	32.74	0.1	0.12	No
147	9.15	32.73	0.1	0.12	No
148	9.15	32.73	0.1	0.12	No
149	9.15	32.73	0.1	0.12	No
150	9.15	32.72	0.1	0.12	No
151	9.15	32.72	0.1	0.12	No
152	9.15	32.71	0.1	0.12	No
153	9.15	32.71	0.1	0.12	No
154	9.15	32.71	0.1	0.12	No
155	9.15	32.7	0.11	0.12	No
156	9.15	32.7	0.11	0.12	No
157	9.15	32.69	0.11	0.12	No
158	9.15	32.69	0.11	0.12	No
159	9.15	32.69	0.11	0.12	No
160	9.15	32.68	0.11	0.12	No
161	9.15	32.68	0.11	0.12	No
162	9.15	32.67	0.11	0.12	No
163	9.15	32.67	0.11	0.12	No
164	9.15	32.67	0.11	0.12	No
165	9.15	32.66	0.11	0.12	No

Table L-2. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
166	9.15	32.66	0.11	0.12	No
167	9.15	32.65	0.11	0.12	No
168	9.15	32.65	0.11	0.12	No
169	9.15	32.64	0.11	0.12	No
170	9.15	32.64	0.11	0.12	No
171	9.15	32.64	0.11	0.12	No
172	9.15	32.63	0.11	0.12	No
173	9.15	32.63	0.11	0.12	No
174	9.15	32.62	0.11	0.12	No
175	9.15	32.62	0.12	0.12	No
176	9.15	32.62	0.12	0.12	No
177	9.15	32.61	0.12	0.12	No
178	9.15	32.61	0.12	0.12	No
179	9.15	32.6	0.12	0.12	No
180	9.15	32.6	0.12	0.12	No
181	9	32.6	0.12	0.15	No
182	9	32.6	0.12	0.15	No
183	9	32.6	0.12	0.15	No
184	9	32.6	0.12	0.15	No
185	9	32.6	0.12	0.15	No
186	9	32.59	0.12	0.15	No
187	9	32.59	0.12	0.15	No
188	9	32.59	0.12	0.15	No
189	9	32.59	0.12	0.15	No
190	9	32.59	0.12	0.15	No
191	9	32.59	0.12	0.15	No
192	9	32.59	0.12	0.15	No
193	9	32.59	0.12	0.15	No
194	9	32.59	0.12	0.15	No
195	9	32.59	0.12	0.15	No
196	9	32.59	0.12	0.15	No
197	9	32.59	0.11	0.15	No
198	9	32.58	0.11	0.15	No
199	9	32.58	0.11	0.15	No
200	9	32.58	0.11	0.15	No
201	9	32.58	0.11	0.15	No
202	9	32.58	0.11	0.15	No
203	9	32.58	0.11	0.15	No
204	9	32.58	0.11	0.15	No
205	9	32.58	0.11	0.15	No
206	9	32.58	0.11	0.15	No
207	9	32.58	0.11	0.15	No
208	9	32.58	0.1	0.15	No
209	9	32.58	0.1	0.15	No

Table L-2. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
210	9	32.57	0.1	0.15	No
211	9	32.57	0.1	0.15	No
212	9	32.57	0.1	0.15	No
213	9	32.57	0.1	0.15	No
214	9	32.57	0.1	0.15	No
215	9	32.57	0.1	0.15	No
216	9	32.57	0.1	0.15	No
217	9	32.57	0.1	0.15	No
218	9	32.57	0.1	0.15	No
219	9	32.57	0.1	0.15	No
220	9	32.57	0.1	0.15	No
221	9	32.56	0.09	0.15	No
222	9	32.56	0.09	0.15	No
223	9	32.56	0.09	0.15	No
224	9	32.56	0.09	0.15	No
225	9	32.56	0.09	0.15	No
226	9	32.56	0.09	0.15	No
227	9	32.56	0.09	0.15	No
228	9	32.56	0.09	0.15	No
229	9	32.56	0.09	0.15	No
230	9	32.56	0.09	0.15	No
231	9	32.56	0.09	0.15	No
232	9	32.56	0.09	0.15	No
233	9	32.55	0.09	0.15	No
234	9	32.55	0.09	0.15	No
235	9	32.55	0.08	0.15	No
236	9	32.55	0.08	0.15	No
237	9	32.55	0.08	0.15	No
238	9	32.55	0.08	0.15	No
239	9	32.55	0.08	0.15	No
240	9	32.55	0.08	0.15	No
241	9	32.55	0.08	0.15	No
242	9	32.55	0.08	0.15	No
243	9	32.55	0.08	0.15	No
244	9	32.54	0.08	0.15	No
245	9	32.54	0.08	0.15	No
246	9	32.54	0.08	0.15	No
247	9	32.54	0.08	0.15	No
248	9	32.54	0.08	0.15	No
249	9	32.54	0.08	0.15	No
250	9	32.54	0.08	0.15	No
251	9	32.54	0.08	0.15	No
252	9	32.54	0.07	0.15	No
253	9	32.54	0.07	0.15	No

Table L-2. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
254	9	32.54	0.07	0.15	No
255	9	32.54	0.07	0.15	No
256	9	32.53	0.07	0.15	No
257	9	32.53	0.07	0.15	No
258	9	32.53	0.07	0.15	No
259	9	32.53	0.07	0.15	No
260	9	32.53	0.07	0.15	No
261	9	32.53	0.07	0.15	No
262	9	32.53	0.07	0.15	No
263	9	32.53	0.07	0.15	No
264	9	32.53	0.07	0.15	No
265	9	32.53	0.07	0.15	No
266	9	32.53	0.07	0.15	No
267	9	32.53	0.07	0.15	No
268	9	32.52	0.07	0.15	No
269	9	32.52	0.07	0.15	No
270	9	32.52	0.07	0.15	No
271	9	32.52	0.07	0.15	No
272	9	32.52	0.07	0.15	No
273	9	32.52	0.06	0.15	No
274	9	32.52	0.06	0.15	No
275	9	32.52	0.06	0.15	No
276	9	32.52	0.06	0.15	No
277	9	32.52	0.06	0.15	No
278	9	32.52	0.06	0.15	No
279	9	32.51	0.06	0.15	No
280	9	32.51	0.06	0.15	No
281	9	32.51	0.06	0.15	No
282	9	32.51	0.06	0.15	No
283	9	32.51	0.06	0.15	No
284	9	32.51	0.06	0.15	No
285	9	32.51	0.06	0.15	No
286	9	32.51	0.06	0.15	No
287	9	32.51	0.06	0.15	No
288	9	32.51	0.06	0.15	No
289	9	32.51	0.06	0.15	No
290	9	32.51	0.06	0.15	No
291	9	32.5	0.06	0.15	No
292	9	32.5	0.06	0.15	No
293	9	32.5	0.06	0.15	No
294	9	32.5	0.06	0.15	No
295	9	32.5	0.06	0.15	No
296	9	32.5	0.06	0.15	No
297	7.45	32.44	0.06	1.43	No

Table L-2. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
298	7.45	32.38	0.06	1.44	No
299	7.45	32.32	0.06	1.44	No
300	7.45	32.27	0.06	1.45	No
301	7.45	32.21	0.06	1.45	No
302	7.45	32.15	0.06	1.46	No
303	7.45	32.09	0.06	1.47	No
304	7.45	32.03	0.06	1.47	No
305	7.45	31.97	0.06	1.48	No
306	7.45	31.91	0.06	1.48	No
307	7.45	31.86	0.06	1.49	No
308	7.45	31.8	0.06	1.49	No
309	7.45	31.74	0.06	1.50	No
310	7.45	31.68	0.06	1.51	No
311	7.45	31.62	0.06	1.51	No
312	7.45	31.56	0.06	1.52	No
313	7.45	31.5	0.06	1.52	No
314	7.45	31.44	0.06	1.53	No
315	7.45	31.39	0.06	1.53	No
316	7.45	31.33	0.06	1.54	No
317	7.45	31.27	0.06	1.55	No
318	7.45	31.21	0.06	1.55	No
319	7.45	31.15	0.06	1.56	No
320	7.45	31.09	0.06	1.56	No
321	7.45	31.03	0.06	1.57	No
322	7.45	30.98	0.06	1.57	No
323	7.45	30.92	0.06	1.58	No
324	7.45	30.86	0.06	1.59	No
325	7.45	30.8	0.06	1.59	No

Table L-3. Ammonia toxicity results for subsegment 120304

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
405	7.3	31.9	0.09	1.66	No
406	7.3	31.9	0.08	1.66	No
407	7.3	31.9	0.08	1.66	No
408	7.3	31.91	0.08	1.65	No
409	7.3	31.91	0.08	1.65	No
410	7.3	31.91	0.08	1.65	No
411	7.3	31.91	0.08	1.65	No
412	7.3	31.91	0.08	1.65	No
413	7.3	31.91	0.08	1.65	No
414	7.3	31.91	0.08	1.65	No
415	7.3	31.91	0.08	1.65	No
416	7.3	31.92	0.08	1.65	No
417	7.3	31.92	0.08	1.65	No
418	7.3	31.92	0.08	1.65	No
419	7.3	31.92	0.08	1.65	No
420	7.3	31.92	0.08	1.65	No
421	7.3	31.92	0.08	1.65	No
422	7.3	31.92	0.08	1.65	No
423	7.3	31.92	0.08	1.65	No
424	7.3	31.93	0.08	1.65	No
425	7.3	31.93	0.08	1.65	No
426	7.3	31.93	0.08	1.65	No
427	7.3	31.93	0.08	1.65	No
428	7.3	31.93	0.08	1.65	No
429	7.3	31.93	0.08	1.65	No
430	7.3	31.93	0.08	1.65	No
431	7.3	31.94	0.08	1.65	No
432	7.3	31.94	0.08	1.65	No
433	7.3	31.94	0.08	1.65	No
434	7.3	31.94	0.08	1.65	No
435	7.3	31.94	0.08	1.65	No
436	7.3	31.94	0.08	1.65	No
437	7.3	31.94	0.08	1.65	No
438	7.3	31.94	0.08	1.65	No
439	7.3	31.95	0.08	1.65	No
440	7.3	31.95	0.08	1.65	No
441	7.3	31.95	0.08	1.65	No
442	7.3	31.95	0.08	1.65	No
443	7.3	31.95	0.08	1.65	No
444	7.3	31.95	0.08	1.65	No
445	7.3	31.95	0.08	1.65	No
446	7.3	31.96	0.08	1.65	No
447	7.3	31.96	0.08	1.65	No
448	7.3	31.96	0.08	1.65	No

Table L-3. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
449	7.3	31.96	0.08	1.65	No
450	7.3	31.96	0.09	1.65	No
451	7.3	31.96	0.09	1.65	No
452	7.3	31.96	0.09	1.65	No
453	7.3	31.96	0.09	1.65	No
454	7.3	31.97	0.09	1.65	No
455	7.3	31.97	0.09	1.65	No
456	7.3	31.97	0.09	1.65	No
457	7.3	31.97	0.09	1.65	No
458	7.3	31.97	0.09	1.65	No
459	7.3	31.97	0.09	1.65	No
460	7.3	31.97	0.09	1.65	No
461	7.3	31.97	0.09	1.65	No
462	7.3	31.98	0.09	1.65	No
463	7.3	31.98	0.09	1.65	No
464	7.3	31.98	0.09	1.65	No
465	7.3	31.98	0.09	1.65	No
466	7.3	31.98	0.09	1.65	No
467	7.3	31.98	0.09	1.65	No
468	7.3	31.98	0.09	1.65	No
469	7.3	31.99	0.08	1.65	No
470	7.3	31.99	0.08	1.65	No
471	7.3	31.99	0.07	1.65	No
472	7.3	31.99	0.07	1.65	No
473	7.3	31.99	0.07	1.65	No
474	7.3	31.99	0.07	1.65	No
475	7.3	31.99	0.07	1.65	No
476	7.3	31.99	0.07	1.65	No
477	7.3	32	0.07	1.64	No
478	7.3	32	0.07	1.64	No
479	7.3	32	0.07	1.64	No
480	7.3	32	0.07	1.64	No
481	7.3	32	0.07	1.64	No
482	7.3	32	0.07	1.64	No
483	7.3	32	0.07	1.64	No
484	7.3	32.01	0.07	1.64	No
485	7.3	32.01	0.07	1.64	No
486	7.3	32.01	0.07	1.64	No
487	7.3	32.01	0.07	1.64	No
488	7.3	32.01	0.06	1.64	No
489	7.3	32.01	0.06	1.64	No
490	7.3	32.01	0.06	1.64	No
491	7.3	32.01	0.06	1.64	No
492	7.3	32.02	0.06	1.64	No
493	7.3	32.02	0.06	1.64	No

Table L-3. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
494	7.3	32.02	0.06	1.64	No
495	7.3	32.02	0.06	1.64	No
496	7.3	32.02	0.06	1.64	No
497	7.3	32.02	0.06	1.64	No
498	7.3	32.02	0.06	1.64	No
499	7.3	32.02	0.06	1.64	No
500	7.3	32.03	0.06	1.64	No
501	7.3	32.03	0.06	1.64	No
502	7.3	32.03	0.06	1.64	No
503	7.3	32.03	0.06	1.64	No
504	7.3	32.03	0.06	1.64	No
505	7.3	32.03	0.06	1.64	No
506	7.3	32.03	0.06	1.64	No
507	7.3	32.04	0.06	1.64	No
508	7.3	32.04	0.06	1.64	No
509	7.3	32.04	0.06	1.64	No
510	7.3	32.04	0.06	1.64	No
511	7.3	32.04	0.06	1.64	No
512	7.3	32.04	0.06	1.64	No
513	7.3	32.04	0.06	1.64	No
514	7.3	32.04	0.06	1.64	No
515	7.3	32.05	0.06	1.64	No
516	7.3	32.05	0.06	1.64	No
517	7.3	32.05	0.06	1.64	No
518	7.3	32.05	0.06	1.64	No
519	7.3	32.05	0.06	1.64	No
520	7.3	32.05	0.06	1.64	No
521	7.3	32.05	0.06	1.64	No
522	7.3	32.06	0.06	1.64	No
523	7.3	32.06	0.06	1.64	No
524	7.3	32.06	0.05	1.64	No
525	7.3	32.06	0.05	1.64	No
526	7.3	32.06	0.05	1.64	No
527	7.3	32.06	0.05	1.64	No
528	7.3	32.06	0.05	1.64	No
529	7.3	32.06	0.05	1.64	No
530	7.3	32.07	0.05	1.64	No
531	7.3	32.07	0.04	1.64	No
532	7.3	32.07	0.04	1.64	No
533	7.3	32.07	0.04	1.64	No
534	7.3	32.07	0.04	1.64	No
535	7.3	32.07	0.04	1.64	No
536	7.3	32.07	0.04	1.64	No
537	7.3	32.07	0.04	1.64	No
538	7.3	32.08	0.03	1.64	No

Table L-3. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
539	7.3	32.08	0.03	1.64	No
540	7.3	32.08	0.03	1.64	No
541	7.3	32.08	0.03	1.64	No
542	7.3	32.08	0.03	1.64	No
543	7.3	32.08	0.03	1.64	No
544	7.3	32.08	0.03	1.64	No
545	7.3	32.09	0.03	1.64	No
546	7.3	32.09	0.03	1.64	No
547	7.3	32.09	0.03	1.64	No
548	7.3	32.09	0.03	1.64	No
549	7.3	32.09	0.04	1.64	No
550	7.3	32.09	0.04	1.64	No
551	7.3	32.09	0.05	1.64	No
552	7.3	32.09	0.05	1.64	No
553	7.3	32.1	0.07	1.63	No
554	7.3	32.1	0.08	1.63	No
555	7.3	32.1	0.1	1.63	No
556	7.3	32.1	0.13	1.63	No

Table L-4. Ammonia toxicity results for subsegment 120403

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
1	7.97	31.22	0.12	0.87	No
2	7.97	31.24	0.12	0.86	No
3	7.97	31.26	0.12	0.86	No
4	7.97	31.28	0.12	0.86	No
5	7.97	31.31	0.12	0.86	No
6	7.97	31.33	0.12	0.86	No
7	7.97	31.35	0.12	0.86	No
8	7.97	31.37	0.12	0.86	No
9	7.97	31.39	0.12	0.86	No
10	7.97	31.41	0.12	0.85	No
11	7.97	31.43	0.12	0.85	No
12	7.97	31.45	0.12	0.85	No
13	7.97	31.47	0.12	0.85	No
14	7.97	31.49	0.12	0.85	No
15	7.97	31.52	0.12	0.85	No
16	7.97	31.54	0.12	0.85	No
17	7.97	31.56	0.12	0.85	No
18	7.97	31.58	0.12	0.85	No
19	7.97	31.6	0.12	0.84	No
20	7.97	31.62	0.12	0.84	No
21	7.97	31.64	0.12	0.84	No
22	7.97	31.66	0.12	0.84	No
23	7.97	31.68	0.12	0.84	No
24	7.97	31.71	0.12	0.84	No
25	7.97	31.73	0.12	0.84	No
26	7.97	31.75	0.12	0.84	No
27	7.97	31.77	0.12	0.84	No
28	7.97	31.79	0.12	0.83	No
29	7.97	31.81	0.12	0.83	No
30	7.97	31.83	0.12	0.83	No
31	7.97	31.85	0.12	0.83	No
32	7.97	31.87	0.12	0.83	No
33	7.97	31.89	0.12	0.83	No
34	7.97	31.92	0.12	0.83	No
35	7.97	31.94	0.12	0.83	No
36	7.97	31.96	0.12	0.83	No
37	7.97	31.98	0.12	0.82	No
38	7.97	32	0.12	0.82	No
39	8.33	32	0.1	0.47	No
40	8.33	32	0.11	0.47	No
41	8.33	32.01	0.11	0.47	No
42	8.33	32.01	0.11	0.47	No
43	8.33	32.01	0.11	0.47	No
44	8.33	32.01	0.11	0.47	No

Table L-4. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
45	8.33	32.01	0.11	0.47	No
46	8.33	32.02	0.12	0.47	No
47	8.33	32.02	0.12	0.47	No
48	8.33	32.02	0.12	0.47	No
49	8.33	32.02	0.12	0.47	No
50	8.33	32.02	0.12	0.47	No
51	8.33	32.03	0.12	0.47	No
52	8.33	32.03	0.12	0.47	No
53	8.33	32.03	0.12	0.47	No
54	8.33	32.03	0.12	0.47	No
55	8.33	32.03	0.12	0.47	No
56	8.33	32.03	0.12	0.47	No
57	8.33	32.04	0.12	0.47	No
58	8.33	32.04	0.09	0.47	No
59	8.33	32.04	0.08	0.47	No
60	8.33	32.04	0.08	0.47	No
61	8.33	32.04	0.08	0.47	No
62	8.33	32.05	0.07	0.47	No
63	8.33	32.05	0.08	0.47	No
64	8.33	32.05	0.08	0.47	No
65	8.33	32.05	0.08	0.47	No
66	8.33	32.05	0.08	0.47	No
67	8.33	32.06	0.08	0.47	No
68	8.33	32.06	0.08	0.47	No
69	8.33	32.06	0.08	0.47	No
70	8.33	32.06	0.08	0.47	No
71	8.33	32.06	0.08	0.47	No
72	8.33	32.07	0.08	0.47	No
73	8.33	32.07	0.08	0.47	No
74	8.33	32.07	0.08	0.47	No
75	8.33	32.07	0.08	0.47	No
76	8.33	32.07	0.08	0.47	No
77	8.33	32.08	0.08	0.47	No
78	8.33	32.08	0.08	0.47	No
79	8.33	32.08	0.08	0.47	No
80	8.33	32.08	0.08	0.47	No
81	8.33	32.08	0.08	0.47	No
82	8.33	32.08	0.08	0.47	No
83	8.33	32.09	0.08	0.47	No
84	8.33	32.09	0.08	0.47	No
85	8.33	32.09	0.08	0.47	No
86	8.33	32.09	0.08	0.47	No
87	8.33	32.09	0.08	0.47	No
88	8.33	32.1	0.08	0.47	No
89	8.33	32.1	0.08	0.47	No

Table L-4. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
90	8.33	32.1	0.08	0.47	No
91	7.68	32.11	0.08	1.18	No
92	7.68	32.11	0.08	1.18	No
93	7.68	32.12	0.08	1.18	No
94	7.68	32.12	0.08	1.18	No
95	7.68	32.13	0.08	1.18	No
96	7.68	32.13	0.08	1.18	No
97	7.68	32.14	0.08	1.17	No
98	7.68	32.14	0.08	1.17	No
99	7.68	32.15	0.09	1.17	No
100	7.68	32.15	0.09	1.17	No
101	7.68	32.16	0.09	1.17	No
102	7.68	32.16	0.09	1.17	No
103	7.68	32.17	0.09	1.17	No
104	7.68	32.17	0.09	1.17	No
105	7.68	32.18	0.09	1.17	No
106	7.68	32.18	0.09	1.17	No
107	7.68	32.19	0.09	1.17	No
108	7.68	32.19	0.1	1.17	No
109	7.68	32.2	0.1	1.17	No
110	7.68	32.21	0.1	1.17	No
111	7.68	32.21	0.1	1.17	No
112	7.68	32.22	0.1	1.17	No
113	7.68	32.22	0.1	1.17	No
114	7.68	32.23	0.1	1.17	No
115	7.68	32.23	0.1	1.17	No
116	7.68	32.24	0.1	1.17	No
117	7.68	32.24	0.1	1.17	No
118	7.68	32.25	0.09	1.17	No
119	7.68	32.25	0.09	1.17	No
120	7.68	32.26	0.08	1.17	No
121	7.68	32.26	0.08	1.17	No
122	7.68	32.27	0.08	1.16	No
123	7.68	32.27	0.08	1.16	No
124	7.68	32.28	0.08	1.16	No
125	7.68	32.28	0.08	1.16	No
126	7.68	32.29	0.09	1.16	No
127	7.68	32.29	0.09	1.16	No
128	7.68	32.3	0.09	1.16	No
129	7	32.3	0.09	1.88	No
130	7	32.29	0.09	1.88	No
131	7	32.29	0.1	1.88	No
132	7	32.28	0.1	1.88	No
133	7	32.28	0.1	1.88	No

Table L-4. (Continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
134	7	32.27	0.1	1.88	No
135	7	32.27	0.1	1.88	No
136	7	32.27	0.1	1.88	No
137	7	32.26	0.1	1.88	No
138	7	32.26	0.1	1.88	No
139	7	32.25	0.1	1.88	No
140	7	32.25	0.1	1.88	No
141	7	32.25	0.1	1.88	No
142	7	32.24	0.1	1.89	No
143	7	32.24	0.1	1.89	No
144	7	32.23	0.1	1.89	No
145	7	32.23	0.1	1.89	No
146	7	32.22	0.1	1.89	No
147	7	32.22	0.1	1.89	No
148	7	32.22	0.1	1.89	No
149	7	32.21	0.1	1.89	No
150	7	32.21	0.1	1.89	No
151	7	32.2	0.1	1.89	No
152	7	32.2	0.1	1.89	No
153	7	32.2	0.1	1.89	No
154	7	32.19	0.1	1.89	No
155	7	32.19	0.1	1.89	No
156	7	32.18	0.1	1.89	No
157	7	32.18	0.1	1.89	No
158	7	32.17	0.1	1.89	No
159	7	32.17	0.1	1.89	No
160	7	32.17	0.1	1.89	No
161	7	32.16	0.1	1.89	No
162	7	32.16	0.1	1.89	No
163	7	32.15	0.1	1.90	No
164	7	32.15	0.1	1.90	No
165	7	32.15	0.1	1.90	No
166	7	32.14	0.1	1.90	No
167	7	32.14	0.1	1.90	No
168	7	32.13	0.1	1.90	No
169	7	32.13	0.11	1.90	No
170	7	32.12	0.11	1.90	No
171	7	32.12	0.11	1.90	No
172	7	32.12	0.11	1.90	No
173	7	32.11	0.11	1.90	No
174	7	32.11	0.11	1.90	No
175	7	32.1	0.11	1.90	No
176	7	32.1	0.11	1.90	No
177	7	32.1	0.11	1.90	No

Table L-4. (Continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
178	7	32.09	0.11	1.90	No
179	7	32.09	0.11	1.90	No
180	7	32.08	0.11	1.90	No
181	7	32.08	0.11	1.90	No
182	7	32.08	0.11	1.90	No
183	7	32.07	0.11	1.91	No
184	7	32.07	0.11	1.91	No
185	7	32.06	0.11	1.91	No
186	7	32.06	0.1	1.91	No
187	7	32.05	0.1	1.91	No
188	7	32.05	0.1	1.91	No
189	7	32.05	0.1	1.91	No
190	7	32.04	0.1	1.91	No
191	7	32.04	0.1	1.91	No
192	7	32.03	0.1	1.91	No
193	7	32.03	0.1	1.91	No
194	7	32.02	0.1	1.91	No
195	7	32.02	0.1	1.91	No
196	7	32.02	0.09	1.91	No
197	7	32.01	0.09	1.91	No
198	7	32.01	0.09	1.91	No
199	7	32	0.09	1.91	No
200	7	32	0.09	1.91	No
201	7	32	0.09	1.91	No
202	7	31.99	0.09	1.92	No
203	7	31.99	0.09	1.92	No
204	7	31.98	0.09	1.92	No
205	7	31.98	0.09	1.92	No
206	7	31.98	0.09	1.92	No
207	7	31.97	0.09	1.92	No
208	7	31.97	0.09	1.92	No
209	7	31.96	0.09	1.92	No
210	7	31.96	0.09	1.92	No
211	7	31.95	0.09	1.92	No
212	7	31.95	0.09	1.92	No
213	7	31.95	0.09	1.92	No
214	7	31.94	0.09	1.92	No
215	7	31.94	0.09	1.92	No
216	7	31.93	0.09	1.92	No
217	7	31.93	0.09	1.92	No
218	7	31.92	0.09	1.92	No
219	7	31.92	0.09	1.92	No
220	7	31.92	0.09	1.92	No
221	7	31.91	0.09	1.93	No

Table L-4. (Continued)

Model Element	Average observed pH	Model Temperature (°C)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
222	7	31.91	0.09	1.93	No
223	7	31.9	0.09	1.93	No
224	7	31.9	0.09	1.93	No

Table L-5. Ammonia toxicity results for subsegment 120604

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
1	7.4	31.2	0.11	1.61	No
2	7.4	31.21	0.11	1.61	No
3	7.4	31.21	0.11	1.61	No
4	7.4	31.22	0.11	1.61	No
5	7.4	31.22	0.11	1.61	No
6	7.4	31.23	0.11	1.61	No
7	7.4	31.23	0.11	1.61	No
8	7.4	31.24	0.11	1.61	No
9	7.4	31.24	0.11	1.61	No
10	7.4	31.25	0.11	1.61	No
11	7.4	31.25	0.11	1.61	No
12	7.4	31.26	0.11	1.61	No
13	7.4	31.26	0.11	1.61	No
14	7.4	31.27	0.11	1.61	No
15	7.4	31.27	0.11	1.61	No
16	7.4	31.28	0.11	1.61	No
17	7.4	31.28	0.11	1.61	No
18	7.4	31.29	0.11	1.61	No
19	7.4	31.29	0.11	1.61	No
20	7.4	31.3	0.11	1.60	No
21	7.4	31.3	0.11	1.60	No
22	7.4	31.31	0.11	1.60	No
23	7.4	31.31	0.11	1.60	No
24	7.4	31.32	0.11	1.60	No
25	7.4	31.32	0.11	1.60	No
26	7.4	31.33	0.11	1.60	No
27	7.4	31.33	0.11	1.60	No
28	7.4	31.34	0.11	1.60	No
29	7.4	31.34	0.11	1.60	No
30	7.4	31.35	0.11	1.60	No
31	7.4	31.35	0.11	1.60	No
32	7.4	31.36	0.11	1.60	No
33	7.4	31.36	0.11	1.60	No
34	7.4	31.36	0.11	1.60	No
35	7.4	31.37	0.11	1.60	No
36	7.4	31.37	0.11	1.60	No
37	7.4	31.38	0.11	1.60	No
38	7.4	31.38	0.11	1.60	No
39	7.4	31.39	0.11	1.60	No
40	7.4	31.39	0.11	1.60	No
41	7.4	31.4	0.11	1.59	No
42	7.4	31.4	0.11	1.59	No
43	7.4	31.41	0.11	1.59	No

Table L-5. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
44	7.4	31.41	0.11	1.59	No
45	7.4	31.42	0.11	1.59	No
46	7.4	31.42	0.11	1.59	No
47	7.4	31.43	0.11	1.59	No
48	7.4	31.43	0.11	1.59	No
49	7.4	31.44	0.11	1.59	No
50	7.4	31.44	0.11	1.59	No
51	7.4	31.45	0.11	1.59	No
52	7.4	31.45	0.11	1.59	No
53	7.4	31.46	0.11	1.59	No
54	7.4	31.46	0.11	1.59	No
55	7.4	31.47	0.11	1.59	No
56	7.4	31.47	0.11	1.59	No
57	7.4	31.48	0.11	1.59	No
58	7.4	31.48	0.11	1.59	No
59	7.4	31.49	0.11	1.58	No
60	7.4	31.49	0.11	1.58	No
61	7.4	31.5	0.11	1.58	No
62	7.4	31.5	0.11	1.58	No
63	7.4	31.51	0.11	1.58	No
64	7.4	31.51	0.11	1.58	No
65	7.4	31.52	0.11	1.58	No
66	7.4	31.52	0.11	1.58	No
67	7.4	31.52	0.11	1.58	No
68	7.4	31.53	0.11	1.58	No
69	7.4	31.53	0.11	1.58	No
70	7.4	31.54	0.11	1.58	No
71	7.4	31.54	0.11	1.58	No
72	7.4	31.55	0.11	1.58	No
73	7.4	31.55	0.11	1.58	No
74	7.4	31.56	0.11	1.58	No
75	7.4	31.56	0.11	1.58	No
76	7.4	31.57	0.11	1.58	No
77	7.4	31.57	0.11	1.58	No
78	7.4	31.58	0.11	1.58	No
79	7.4	31.58	0.11	1.58	No
80	7.4	31.59	0.11	1.57	No
81	7.4	31.59	0.11	1.57	No
82	7.4	31.6	0.11	1.57	No
83	7.4	31.6	0.11	1.57	No
84	7.4	31.61	0.11	1.57	No
85	7.4	31.61	0.11	1.57	No
86	7.4	31.62	0.11	1.57	No
87	7.4	31.62	0.11	1.57	No
88	7.4	31.63	0.11	1.57	No

Table L-5. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
89	7.4	31.63	0.11	1.57	No
90	7.4	31.64	0.11	1.57	No
91	7.4	31.64	0.11	1.57	No
92	7.4	31.65	0.11	1.57	No
93	7.4	31.65	0.11	1.57	No
94	7.4	31.66	0.11	1.57	No
95	7.4	31.66	0.11	1.57	No
96	7.4	31.67	0.11	1.57	No
97	7.4	31.67	0.11	1.57	No
98	7.4	31.68	0.11	1.57	No
99	7.4	31.68	0.11	1.57	No
100	7.4	31.68	0.11	1.57	No
101	7.4	31.69	0.11	1.56	No
102	7.4	31.69	0.11	1.56	No
103	7.4	31.7	0.11	1.56	No
104	7.4	31.7	0.11	1.56	No
105	7.4	31.71	0.11	1.56	No
106	7.4	31.71	0.11	1.56	No
107	7.4	31.72	0.11	1.56	No
108	7.4	31.72	0.11	1.56	No
109	7.4	31.73	0.11	1.56	No
110	7.4	31.73	0.11	1.56	No
111	7.4	31.74	0.11	1.56	No
112	7.4	31.74	0.11	1.56	No
113	7.4	31.75	0.11	1.56	No
114	7.4	31.75	0.11	1.56	No
115	7.4	31.76	0.11	1.56	No
116	7.4	31.76	0.11	1.56	No
117	7.4	31.77	0.11	1.56	No
118	7.4	31.77	0.11	1.56	No
119	7.4	31.78	0.11	1.56	No
120	7.4	31.78	0.11	1.56	No
121	7.4	31.79	0.11	1.55	No
122	7.4	31.79	0.11	1.55	No
123	7.4	31.8	0.11	1.55	No
124	7.4	31.8	0.11	1.55	No
125	7.4	31.81	0.11	1.55	No
126	7.4	31.81	0.11	1.55	No
127	7.4	31.82	0.11	1.55	No
128	7.4	31.82	0.11	1.55	No
129	7.4	31.83	0.11	1.55	No
130	7.4	31.83	0.11	1.55	No
131	7.4	31.84	0.11	1.55	No
132	7.4	31.84	0.11	1.55	No
133	7.4	31.84	0.11	1.55	No

Table L-5. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
134	7.4	31.85	0.11	1.55	No
135	7.4	31.85	0.11	1.55	No
136	7.4	31.86	0.11	1.55	No
137	7.4	31.86	0.11	1.55	No
138	7.4	31.87	0.11	1.55	No
139	7.4	31.87	0.11	1.55	No
140	7.4	31.88	0.11	1.55	No
141	7.4	31.88	0.11	1.55	No
142	7.4	31.89	0.11	1.54	No
143	7.4	31.89	0.11	1.54	No
144	7.4	31.9	0.11	1.54	No
145	7.4	31.9	0.11	1.54	No
146	7.4	31.91	0.11	1.54	No
147	7.4	31.91	0.11	1.54	No
148	7.4	31.92	0.11	1.54	No
149	7.4	31.92	0.11	1.54	No
150	7.4	31.93	0.11	1.54	No
151	7.4	31.93	0.11	1.54	No
152	7.4	31.94	0.11	1.54	No
153	7.4	31.94	0.11	1.54	No
154	7.4	31.95	0.11	1.54	No
155	7.4	31.95	0.11	1.54	No
156	7.4	31.96	0.11	1.54	No
157	7.4	31.96	0.11	1.54	No
158	7.4	31.97	0.11	1.54	No
159	7.4	31.97	0.11	1.54	No
160	7.4	31.98	0.11	1.54	No
161	7.4	31.98	0.11	1.54	No
162	7.4	31.99	0.11	1.53	No
163	7.4	31.99	0.11	1.53	No
164	7.4	32	0.11	1.53	No
165	7.4	32	0.11	1.53	No
166	7.4	32	0.04	1.53	No
167	7.4	32	0.04	1.53	No
168	7.4	32	0.04	1.53	No
169	7.4	32	0.04	1.53	No
170	7.4	32	0.04	1.53	No
171	7.4	32	0.04	1.53	No
172	7.4	32	0.04	1.53	No
173	7.4	32	0.04	1.53	No
174	7.4	32	0.04	1.53	No
175	7.4	32	0.04	1.53	No
176	7.4	32	0.04	1.53	No
177	7.4	32	0.04	1.53	No
178	7.4	32	0.04	1.53	No

Table L-5. (continued)

Model Element	Average observed pH	Model Temperature (℃)	Predicted NH3-N (mg N/L)	Calculated CCC (mg N/L)	Above CCC?
179	7.4	32	0.05	1.53	No
180	7.4	31.98	0.08	1.54	No
181	7.4	31.97	0.08	1.54	No
182	7.4	31.95	0.08	1.54	No
183	7.4	31.94	0.08	1.54	No
184	7.4	31.92	0.08	1.54	No
185	7.4	31.9	0.08	1.54	No
186	7.4	31.89	0.08	1.54	No
187	7.4	31.87	0.08	1.55	No
188	7.4	31.85	0.08	1.55	No
189	7.4	31.84	0.08	1.55	No
190	7.4	31.82	0.08	1.55	No
191	7.4	31.81	0.08	1.55	No
192	7.4	31.79	0.08	1.55	No
193	7.4	31.77	0.08	1.56	No
194	7.4	31.76	0.08	1.56	No
195	7.4	31.74	0.08	1.56	No
196	7.4	31.72	0.08	1.56	No
197	7.4	31.71	0.08	1.56	No
198	7.4	31.69	0.08	1.56	No
199	7.4	31.68	0.08	1.57	No
200	7.4	31.66	0.08	1.57	No
201	7.4	31.64	0.08	1.57	No
202	7.4	31.63	0.08	1.57	No
203	7.4	31.61	0.08	1.57	No
204	7.4	31.59	0.08	1.57	No
205	7.4	31.58	0.08	1.58	No
206	7.4	31.56	0.08	1.58	No
207	7.4	31.55	0.08	1.58	No
208	7.4	31.53	0.08	1.58	No
209	7.4	31.51	0.08	1.58	No
210	7.4	31.5	0.08	1.58	No
211	7.4	31.48	0.08	1.59	No
212	7.4	31.46	0.08	1.59	No
213	7.4	31.45	0.08	1.59	No
214	7.4	31.43	0.08	1.59	No
215	7.4	31.42	0.08	1.59	No
216	7.4	31.4	0.08	1.59	No

APPENDIX M:
RESPONSE TO SEPTEMBER 2008 GULF RESTORATION NETWORK COMMENTS

GULF RESTORATION NETWORK

UNITED FOR A HEALTHY GULF

338 Baronne St., Suite 200, New Orleans, LA 70112
Phone: (504) 525-1528 Fax: (504) 525-0833
www.healthygulf.org

September 26, 2008

Diane Smith
Environmental Protection Specialist
Water Quality Protection Division
U.S. Environmental Protection Agency Region 6
1445 Ross Ave.

Dallas, TX 75202-2733
smith.diane@epa.gov

RE: Comments on Clean Water Act 303(d): Availability of 30 Modified Total Maximum Daily Loads (TMDLs) in Louisiana:

- TMDLs for Dissolved Oxygen and Nutrients in Selected Subsegments in the Upper Terrebonne Basin, Louisiana (120110, 120102, 120103, 120105, 120106, 120107, 120109)
- TMDLs for Dissolved Oxygen and Nutrients in Selected Subsegments in the Middle Terrebonne Basin, Louisiana (120202, 120204, 120304, 120403, 120604)
- TMDLs for Dissolved Oxygen and Nutrients in Selected Subsegments in the Lower Terrebonne Basin, Louisiana (120401, 120404, 120405, 120406)

Dear Ms. Smith,

On behalf of the Gulf Restoration Network (GRN), I am submitting the following comments regarding the 30 modified Total Maximum Daily Loads (TMDLs) for the above-mentioned basins. GRN is a diverse coalition of individual citizens and local, regional, and national organizations committed to uniting and empowering people to protect and restore the resources of the Gulf of Mexico. Members of GRN are located in each of the states along the Gulf of Mexico, including Louisiana. GRN reserves the right to rely on all public comments submitted, request a written response to our comments, and request written notification when any action is taken on these TMDLs (approval, denial, modification, etc.).

1. The use of average monthly flows and permit levels is not appropriate for a Total Maximum Daily Load.

The TMDLs repeatedly utilize averages (often monthly) for loading calculations. This is not appropriate when trying to determine a *maximum, daily* loading.

a. In section 6, they sate that "the permitted or average (expected or observed) were used to calculate the WLAs. If the permitted or average flow was unavailable, the permit maximum flow was used." These calculations should have used as close to a daily maximum waste flow as possible. Additionally, if dischargers were discharging above their permitted flow, those numbers should have been used.

EPA Response: In developing WLAs, the best available data was used. In general, the maximum allowable discharge information was used. In certain circumstances, this information was not available. When permit flow was not always available, best professional judgment was used to in determining the flow to use for each discharger. Average flows were preferred over maximum flows, because, without permitted or design flows, it was unknown if maximum flows were above the permit flows.

b. In section 6.1, the TMDLs state that "WLAs were calculated using monthly average permit limits, when applicable. If a permit does not have a monthly average permit limit, the weekly average permit limit was used. If the facility has neither a monthly nor a weekly limit, the daily maximum limit was used to calculate loads." This is opposite of how this calculation should be done. Once again, the goal is to develop a Total *Maximum Daily* Load. Given this fact, utilizing monthly or weekly averages will not adequately protect the impaired waters.

EPA Response: In general, the monthly average permit limit is more conservative than the daily maximum limit, thus giving better protection to receiving waters. These can be seen in tables detailing permit limits, such as those in Appendix A of the Upper Terrebonne and Middle Terrebonne TMDL reports. In addition, the monthly averages represent longer term conditions that will ensure that daily limits will also be met.

c. We assume that for the Ammonia Toxicity Analysis, average flows or average discharges (monthly or weekly) were used. Especially for this analysis for toxicity, daily maximums must be utilized.

EPA Response: This analysis was completed using results directly from the model, therefore average flows were used. This flow was appropriate because the information was compared to the chronic criterion calculated as per the EPA guidance: *1999 Update of Ambient Water Quality Criteria for Ammonia*.

d. For Nutrient TMDLs (section 6.2) the same is true. The analysis states that "total nitrogen to total phosphorus ratios and *mean* concentrations in the nutrient listed subsegments are within the ratio and concentration ranges for the non impaired subsegments." (emphasis

added) First, maximums should also be evaluated. Second, more evidence must be supplied in order to utilize "non-impaired" subsegments as a direct comparison.

EPA Response: The mean concentrations were used because they represent the normal conditions in the subsegment and not extreme conditions which might occur only with limited frequency.

In order for these TMDLs to potentially be protective and follow the letter of the law, wherever available, the most stringent limits and flows should be used, not average flows or average monthly limits.

EPA Response: As stated in previous responses, permit and design flows were preferred as per standard TMDL practice. Average flows were only used in certain circumstances where permitted flows were not available. Additional, monthly average permit limits were preferred because they are more conservative than the daily maximum concentration limits.

2. Supplied TMDL documents are not consistent in the application of an explicit margin of safety for nutrients.

Each of the TMDL documents state on page ii, that "an explicit MOS of 10 percent…[is] included." While this is true for the oxygen demand calculations, it is expressly not true for nutrients. In fact, just two pages later, Table ES-4 states that the margin of safety is *implicit*. This is not justified, especially when it is stated earlier that they should be an explicit 10 percent. This is not consistent and does not allow for a true margin of safety, as the Executive Summaries state. Additionally, the TMDLs state the requirements for an implicit margin of safety, and yet offer no explanation as to how those requirements were fulfilled. In fact, given the use of improper limits, such as monthly averages (see comment 1 above), an implicit margin of safety is not justified.

EPA Response: An explicit MOS will be used for nutrient TMDLs instead of an implicit MOS.

3. The claim that there is no Waste Load Reduction for Total Nitrogen and Total Phosphorus is not supported.

Since there was no apparent analysis as to how much Total Nitrogen and Total Phosphorus is actually coming out of the 194 identified point sources, it is inappropriate to assume that there should be no reduction, as these nutrients could have effects on parts of the various subsegments. Additionally, evidence must be given to show that the point sources and non point sources will be meeting the total allowable loading of total phosphorus and total nitrogen listed in the "Summary of TMDLs for nutrients" charts in the TMDLs.

EPA Response: Available data was used in developing the nutrient TMDLs. Data were not available on point source effluents of nutrients to assess point source contributions. Specific monitoring of point sources is not part of the TMDL process. No reductions

were required to nutrient loadings, so it was assumed that current effluent levels were not detrimental. If more detailed information on point source effluents of nutrients becomes available, which demonstrates changes might be needed to these TMDLs, these TMDLs might be revisited.

TMDLs set allocations. Compliance of allocations is not part of this TMDL. LDEQ conducts routine monitoring all subsegments and has the authority to set permit limits and require effluent monitoring. In addition, LDEQ has other programs in place for nonpoint source compliance.

4. The claim that there is a lack of pathway information is questionable.

We question the statement in the Wasteload Flow and Water Quality Data sections stating that "permitted sources…were combined because of lack of discharge pathway information.) This is extremely suspect. Location of discharge should be part of each permit. Therefore we request evidence backing up the above assertion.

EPA Response: In some permits, location information was missing or unreliable. An example of unreliability of information is the location information for a point source plotted a facility in a different subsegment than the permit lists. The best available information was used in developing these TMDLs. Additionally, even though small point sources were aggregated in the model, the contribution loading of each point source was the same as it would have been included in the model separately. If more detailed information on the locations of point sources becomes available, which demonstrates changes might be needed to these TMDLs, these TMDLs might be revisited. All data that was used is available online on LDEQ's Electronic Document Management System (EDMS) at https://edms.deq.louisiana.gov/app/security/logon.aspx.

5. The assumption that the ammonia discharge from smaller point sources is 1.5 mg/L is inappropriate.

Smaller point sources can often have high discharges of ammonia, and 1.5 mg/L is extremely low, especially when concerning sewage discharges. We request scientific and engineering evidence that the assumption of 1.5 mg/L ammonia for small point sources, as stated in the Wasteload Flow and Water Quality Data section, is appropriate

EPA Response: The ammonia concentration of 1.5 mg/L was used in absence of additional data from facilities and was only used for calibration. With the lack of actual data, assumptions of the effluent concentrations were made on the basis of nearby water quality values, with the assumption that high discharges of ammonia would be reflected in receiving water quality. The calibration of model using this concentration was deemed adequate. TMDLs were based on permit limits. If more detailed information on the ammonia effluent concentrations becomes available, which demonstrates changes might be needed to these TMDLs, these TMDLs might be revisited.

6. Tributaries of named streams are potentially not fully protected with these TMDLs.

Louisiana water quality regulations (Title 33, Part IX, Subpart 1, §1111) states that "Designated uses assigned to each subsegment apply to all water bodies (listed water body and tributaries/distributaries of the listed water body) contained in that subsegment unless unique chemical, physical, and/or biological conditions preclude such uses." However these TMDLs only seem to cover the named stream and treat the tributaries as point sources. If a TMDL is to be done on the full subsegment, each tributary and distributary must be analyzed to see if the proposed Load Allocations and Waste Load Allocations will result in these tributaries meeting the numeric and narrative criteria assigned to their Designated Uses.

EPA Response: The TMDL allocations are only developed for areas on the 303(d) listing. The total TMDL allocation includes WLAs for all known point sources throughout the listed subsegments. The total TMDL allocation also includes LAs for all tributaries, not just impaired tributaries, that discharge to the modeled reach. The TMDL is an aggregation of the named stream and its tributaries, not just for individual streams, and all nonpoint sources and tributaries are accounted for in the LAs.

7. The narrative criteria for nutrients are not fully addressed.

These TMDLs correctly quote the state's narrative nutrient criteria as:

> The Naturally occurring range of nitrogen-phosphorous rations shall be maintained. This range shall not apply to designated intermittent streams. To establish the appropriate range of ratios and compensate for natural seasonal fluctuations, the administrative authority will use site-specific studies to establish limits for nutrients. Nutrient concentrations that produce aquatic growth to the extent that it creates a public nuisance or interferes with designated water uses shall not be added to any surface waters.

While the first part of the criteria is somewhat addressed (see comments 1 and 3 above), the last sentence is effectively ignored. Nowhere in the main reports is there an evaluation that concludes that if nutrient loadings remain where they are that there ill no unacceptable aquatic growth that interferes with the designated uses. Therefore, this TMDL is not complete until the entire set of nutrient criteria is addressed.

EPA Response: The nutrient TMDLs were developed using information from non-impaired subsegments under the assumption that the non-impaired subsegments were in full compliance with the LDEQ narrative criteria, including aquatic growth.

In conclusion, given the above concerns, we feel that these proposed TMDLs are inadequate as presented. We request that our concerns be addressed in a new revised version that will once again be place on public notice. We look forward to your response.

EPA Response: After the establishment of these TMDLs, if new information becomes available, which demonstrates changes might be needed to these TMDLs, EPA may consider revising these TMDLs.

For a healthy Gulf,

[sent electronically]

Matt Rota
Water Resources Program Director

CC: Jill Mastrototaro, Sierra Club
Leslie March, Sierra Club
Woody Martin, Sierra Club
Jill Witkowski, Tulane Environmental Law Clinic
Mike Murphy, Tulane Environmental Law Clinic
Marylee Orr, Louisiana Environmental Action Network
Gary Miller, Louisiana Environmental Action Network